



# Fish Passage Center Weekly Report #08 - 07

April 18, 2008

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## Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 23% and 71% of average at individual sub-basins over April. Precipitation above The Dalles has been 49% of average over April. Over the entire water year, precipitation has generally been near or above average.

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

| Location                     | Water Year 2008<br>April 1-14 |              | Water Year 2008<br>October 1, 2007 to<br>April 1-14, 2008 |              |
|------------------------------|-------------------------------|--------------|---|--------------|
|                              | Observed<br>(inches)          | %<br>Average | Observed<br>(inches)                                      | %<br>Average |
| Columbia Above Coulee        | 0.44                          | 57           | 15.43   | 103          |
| SNAKE RIVER ABOVE ICE HARBOR | 0.28                          | 41           | 11.60   | 106          |
| Columbia Above The Dalles    | 0.38                          | 49           | 15.51   | 103          |
| Kootenai                     | 0.47                          | 57           | 14.90   | 97           |
| Clark Fork                   | 0.18                          | 32           | 10.38   | 108          |
| Flathead                     | 0.40                          | 54           | 12.58   | 97           |
| Pend Oreille/Spokane         | 0.73                          | 69           | 22.70   | 107          |
| Central Washington           | 0.10                          | 32           | 4.66  | 75           |
| SNAKE RIVER PLAIN            | 0.11                          | 23           | 5.71  | 87           |
| Salmon/Boise/Payette         | 0.25                          | 34           | 14.55   | 108          |
| Clearwater                   | 0.85                          | 69           | 20.79   | 105          |
| SW Washington                | 1.54                          | 62           | 52.35   | 94           |
| Cascades/Cowlitz             |                               |              |   |              |
| Willamette Valley            | 1.61                          | 71           | 48.3  | 102          |

Snowpack within the Columbia Basin is above average. Average snowpack in the Columbia River for basins above the Snake River confluence is 111% of average, for Snake River Basins the average snowpack is 114% of average, and for

lower Columbia Basins between McNary and Bonneville Dam average snowpack is 195% of average.

Table 2 displays the March Final and April Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts generally were similar between the March Final and April Final forecasts, with the exception of Dworshak which increased 10%. The current forecast (April Final) at The Dalles between January and July is 101000 Kaf (94% of average).

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

| Location                                | March Final                     |                                       | April Final                     |                                       |
|---|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|
|   | %<br>Average<br>(1971-<br>2000) | Probable<br>Runoff<br>Volume<br>(Kaf) | %<br>Average<br>(1971-<br>2000) | Probable<br>Runoff<br>Volume<br>(Kaf) |
| The Dalles (Jan-July)                   | 96                              | 103000                                | 94                              | 101000                                |
| Grand Coulee (Jan-July)                 | 99                              | 62300                                 | 97                              | 61200                                 |
| Libby Res. Inflow, MT (Jan-July)        | 98                              | 6190                                  | 96                              | 6080                                  |
| Hungry Horse Res. Inflow, MT (Jan-July) | 94                              | 2100                                  | 96                              | 2140                                  |
| Lower Granite Res. Inflow (Apr-July)    | 107                             | 23000                                 | 108                             | 23300                                 |
| Brownlee Res. Inflow (Apr-July)         | 87                              | 5500                                  | 86                              | 5400                                  |
| Dworshak Res. Inflow (Apr-July)         | 110                             | 2920                                  | 120                             | 3160                                  |

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. Flows at Lower Granite Dam from April 3-16 have averaged 48.3 Kcfs, flows at Priest Rapids from April 10th to 16th averaged 83.8 Kcfs and at McNary 144.0 Kcfs over the same date range.

Grand Coulee Reservoir is at 1239.2 feet (4-16-08) and has drafted 5.2 feet in the last week. The end of April FC elevation at Grand Coulee based on the new April Final forecast is 1228.8 feet. Outflows at Grand Coulee have ranged between 68.3 and 98.7 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2395.3 feet (4-16-08) and held steady last week. The end of April FC elevation at Libby based on the new April Final forecast is 2402.2 feet. Outflows at Libby are still the 4.0 Kcfs minimum.

Hungry Horse is currently at an elevation of 3502.6 ft (4-16-08) and has drafted 1.6 feet last week. The end of April FC elevation at Hungry Horse based on the new April Final forecast is 3521.3 feet. Outflows at Hungry Horse have increased somewhat over the last week, ranging between 3.6 and 4.5 Kcfs.

Dworshak is currently at an elevation of 1486.7 feet (4-16-08) and drafted 5.1 feet last week; outflows at Dworshak have been 10.9 Kcfs. The end of April FC at Dworshak is 1493.7 feet. At the April 16th, 2008 TMT Meeting, all parties agreed that outflows at Dworshak would remain at approximately 10.9 Kcfs for the next week.

The Brownlee Reservoir was at an elevation of 2031.2 feet on April 16th, 2008, refilling 2.6 feet last week. Outflows at Brownlee Dam have been 12.8 to 18.3 Kcfs over the last week. The end of April FC elevation at Brownlee based on the new April Final forecast is 2033.8 feet.

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

The Court Order calls for the following spill levels at the Federal Snake River Projects:

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

Spill at Lower Granite Dam has averaged an instantaneous 20 Kcfs and spill at Little Goose Dam is achieving the 30% over the 24 hour period. However, spill to the gas cap at Lower Monumental Dam has been decreased on 4/13 and again on 4/15 based on the Ice Harbor Dam forebay TDG reading; however, the tailrace readings at Lower Monumental Dam were well below the waiver limits. Spill at Ice Harbor Dam resumed court ordered spill of 45 Kcfs daytime spill and gas cap nighttime spill on April 11th, after the RSW seal replacement was completed.

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

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

Spill at McNary and The Dalles dams met the court ordered spill this past week. Spill at John Day Dam was limited to less than the 60% nighttime spill since April 14th after the Dalles forebay exceeded 115%. Spill since that date has averaged between 49 and 57% of the nighttime average flow. Both The Dalles forebay and John Day tailrace TDG values are now well below the waiver limits. Spill at Bonneville Dams has been close to the Court's Order later in the week, but less than the 100 Kcfs earlier because of a restriction on the amount of water that could be spilled at slightly

lower forebay elevations.

Total dissolved gas at the federal hydroprojects was well under the waiver limits at the end of this past week. Earlier this week the forebay monitors exceeded the TDG waiver limits at Ice Harbor and The Dalles dams, likely as a result of the warm weather. Camas/Washougal also exceeded the 115% and the COE limited spill, but this monitor is no longer a required point of compliance for Oregon Department of Environmental Quality or the Washington Department of Ecology.

Gas bubble trauma (GBT) monitoring occurred at all the Snake River sites and at Bonneville Dam. Unusually high levels of GBT were observed in steelhead at Little Goose Dam. This occurrence is highly unusual in that the only spill that is occurring is at Lower Granite Dam, where spill is limited to the RSW and training spill of 20 Kcfs. The TDG levels in the tailrace of Lower Granite and forebay of Little Goose dam were near the national standard of 110%. The SMP crews will repeat sample GBT and further investigations into the potential cause for this occurrence is being investigated.

**Smolt Monitoring:** Relatively large numbers of smolts have been captured at SMP traps over the past week as hatchery releases and wild out-migrant numbers continued to increase. Smolt passage continued to pick up in the hydro-system as well with passage indices at Lower Granite Dam above 10,000 for both yearling Chinook and steelhead smolts.

At the Salmon River Trap over the past several days the catch was predominantly hatchery origin yearling Chinook. Based on PIT-tag recaptures over the past week, those smolts were primarily from releases at Rapid River Hatchery and Knox Bridge (McCall Hatchery). Flows in the Salmon River, as measured at the USGS gage at White Bird, rose from 4,000 cfs to 10 Kcfs this past week. With the warmer weather flows finally came up to near average levels for this time of year on April 15.

At the Imnaha River Trap nearly 16,000 yearling Chinook were captured on April 14, with nearly of all those fish, hatchery origin fish;

those fish were likely releases from Looking Glass Hatchery, released at the Imnaha Acclimation Pond. Steelhead numbers were up as well this past week. Data is limited from the site this week due to high numbers of fish in the sample. As in the Salmon River flows increased at the Imnaha Trap this week, with flows reaching 1,000 cfs on April 14, which slightly exceeded historic average for that date.

At the Grande Ronde Trap they have captured between 300 and 500 yearling Chinook per day over the past week; predominantly hatchery origin yearling Chinook. Steelhead catch also increased this past week, with collection between 100 to 500 per day the past four days. Flows on the Grande Ronde River have increased more rapidly to the increased temperatures this past week, with flows exceeding historic average of 6,000 cfs over the past several days.

At the Lewiston Trap on the Snake River IDFG crews began to catch increased numbers of yearling Chinook and steelhead as flows increased and migrant smolts began passing in increasing numbers. The trap fishes best at higher flows, and flows prior to this week have been well below normal, with discharge ranging between 20 and 30 Kcfs. This week flows rose to 35 Kcfs, which is nearer the normal 40 Kcfs average for this time of year.

At Lower Granite Dam the daily passage indices for yearling Chinook and steelhead both rose above 10,000 fish on April 17, when the passage index rose to near 12,000 for yearling Chinook and 16,000 for steelhead. PIT-tagged wild yearling Chinook detected from April 3 to present were largely from the Imnaha River basin (326 of 426 detections).

Hatchery PIT-tagged yearling Chinook were predominantly from releases at Dworshak NFH, with 292 of 534 detections since April 1 from that hatchery; followed by detections from Clearwater River releases at Kooskia NFH (58 detections), and 89 detections from Selway River releases. Most of the PIT-tagged hatchery steelhead have been arriving from marks at the Smolt Monitoring traps with 39 marked at the Salmon River Trap, 9 from the Grande Ronde River Trap and 40 from the

Snake River Trap. Increasing numbers (albeit small numbers) of subyearling Chinook, coho and sockeye smolts have also been sampled at the dam.

Another notable pulse of hatchery subyearling Chinook passed Bonneville Dam beginning on April 12, with a passage index of 240,000 on that date; those were smolts from a release of 4 million fish from Spring Creek NFH that occurred on April 10.

#### **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 452,000 yearling fall Chinook were released from acclimation ponds on the Snake (67%) and Clearwater (33%) rivers on April 15th and 16th. This week marked the end of two volitional releases of yearling spring Chinook from acclimation facilities on the Grande Ronde River. In all, these releases totaled 249,323 spring Chinook juveniles. A volitional release of approximately 131,500 yearling spring Chinook juveniles from the Lostine Acclimation ponds on the Wallowa River was scheduled to end this week. Also scheduled to end this week was a release of approximately 1.04 million yearling summer Chinook juveniles to the Pahsimeroi River. Finally, approximately 2.26 million summer steelhead juveniles were scheduled for release over the past week. Of these, approximately 76% were scheduled for release into the Clearwater River and its tributaries. Approximately 7% were scheduled for release into the Imnaha and Grande Ronde rivers, each. The remaining 10% were scheduled for release into the Snake River Zone below Lower Granite Dam to the Tucannon (7%) and Snake (3%, at Lyons Ferry Hatchery) rivers.

A volitional release of approximately 2.5 million yearling spring Chinook juveniles from Rapid River Hatchery is scheduled to end next week, April 25th. This release began in mid-March. Also scheduled to end next week is a release of 174,000 yearling spring Chinook juveniles from Sawtooth Hatchery to the Salmon River and a release of approximately 184,000 spring Chinook juveniles from Tucannon Hatchery to the

Tucannon River. Several releases totaling about 2.8 million summer steelhead are scheduled to end in the next two weeks. Of these, approximately 69% were scheduled for release into the Salmon River, while 31% were scheduled for release into the Pahsimeroi River. In addition, several releases of summer steelhead are scheduled to begin over the next two weeks. In all, approximately 2.07 million summer steelhead are scheduled for release into this zone over the next two weeks, with the majority (63%) scheduled for release into the Clearwater River from Dworshak National Fish Hatchery. The remaining 37% are scheduled for release into the Salmon (22%) and Grande Ronde (15%) rivers. Finally, about 140,000 sockeye juveniles are scheduled for release into this zone, beginning May 1st. Approximately half of these sockeye juveniles will be released into Redfish Lake, while the other half will be released into the Salmon River.

**Mid-Columbia Zone:** The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Approximately 512,000 subyearling fall Chinook were scheduled for release into the Yakima River this week. Just under 1.83 million yearling spring Chinook were scheduled for release into this zone over the past week. Of these, about 52% were scheduled for release into the Methow River, while 34% and 14% were scheduled for release into the Wenatchee and Okanogan rivers, respectively.

Three volitional releases totaling about 1.34 million yearling summer Chinook were scheduled to begin this week. These summer Chinook juveniles are being released to the Okanogan (45.3%), Methow (31.4%), and Mid-Columbia (23.3%) rivers and are all expected to run through mid-May. Finally, about 280,000 summer steelhead juveniles were scheduled for release into this zone over the past week.

These steelhead were being released to the Mid-Columbia (64%) and Walla Walla (36%) rivers. In addition to the 512,000 subyearling fall Chinook that were scheduled for this week, 300,000 subyearling fall Chinook juveniles are scheduled for release into the Yakima River, beginning April 21st.

Approximately 1.65 million yearling spring Chinook are scheduled for release into the Wenatchee River over the next two weeks.

Of these, 115,000 are scheduled for release from net pens into Lake Wenatchee. Just under 1.07 million yearling summer Chinook are scheduled for release into this zone over the next two weeks. Of these 87% are scheduled for release into the Wenatchee River, while 13% will be released into the Mid-Columbia River. Over 2.46 million coho juveniles are scheduled for release into this zone over the next two weeks. These releases are part of the Yakama Tribal Program to re-establish Coho runs in the Yakima, Methow, and Wenatchee basins. Of these 2.46 million coho juveniles, approximately 40% are scheduled for release into the Wenatchee River, 37% are scheduled for release into the Yakima River, and 14% are scheduled for release into the Methow River. The remaining 9% will be released to the Mid-Columbia River from Wells Hatchery.

Many of these releases are volitional are expected to run through early to mid-May. Finally, nearly 1.25 million summer steelhead are scheduled for release into this zone over the next two weeks. Approximately 34.3% of these steelhead are scheduled for release into the Methow River. About 26.3% are scheduled for release into the Wenatchee River. However, the dates for these releases are preliminary and may change. The remaining 39.4% will be split between the Okanogan (12.7%), Touchet (12.3%), and Mid-Columbia (14.4%) rivers.

**Lower Columbia Zone:** The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. On April 11th, over 1.33 million yearling spring Chinook were released into the Wind River from Carson National Fish Hatchery. This release occurred earlier than the originally anticipated April 15th date. On April 17th, the Little White Salmon National Fish Hatchery released 934,438 yearling spring Chinook juveniles into the Little White Salmon River.

Approximately 778,000 coho juveniles were released into the Umatilla River this week from Pendleton Acclimation Pond. Finally, about 500

summer steelhead were scheduled for release into a tributary of Lake Billy Chinook this week. This release is part of a PGE passage study on the Deschutes River.

The final release of subyearling fall Chinook Tules from Spring Creek NFH is scheduled to take place in early May. Approximately 3.75 million subyearling fall Chinook Tules are anticipated for this release. A volitional release of approximately 376,000 yearling spring Chinook from Warm Springs National Fish Hatchery is scheduled to end next week (April 23rd). This release began in mid-March. About 281,000 summer steelhead juveniles are scheduled for release into this zone over the next two weeks. Of these, about 53% will be released from acclimation ponds on the Umatilla River.

The remaining 47% will be split between the Klickitat (34%), White Salmon (9%), and Hood (4%) rivers. In addition to the summer steelhead, approximately 88,000 winter steelhead are scheduled for release into this zone over the next two weeks. About 76% of these winter steelhead will be release into Hood River, while the remaining 24% are scheduled for release into the White Salmon River.

### Adult Fish Passage

The traditional or historical counting schedule at Bonneville began March 15th and continues through November 15th. This counting schedule allows for comparison of current year counts with historical data. The traditional counting schedule began on March 1st at Lower Granite Dam. Counting began on April 1st for The Dalles Dam, John Day Dam, McNary Dam, Ice Harbor Dam, Lower Monumental Dam, and Little Goose Dam. Willamette Falls Dam counts adult salmon throughout the entire year. The PUD dams in the Mid-Columbia River begin counting fish around April 15th except Wells Dam which starts counting on May 1st. Both Rock Island Dam and Rocky Reach Dam have begun counting adult salmon.

Adult counts at Bonneville Dam have been updated through April 17th. Between March 15th and April 17th, 8,959 adult spring Chinook had passed Bonneville Dam. Daily adult spring Chinook counts at Bonneville ranged

from 111 to 1,314. The 2008 count was about two times larger than the 2007 adult spring Chinook count of 4,300 at Bonneville Dam but is only 22% of the ten year average. The Bonneville adult steelhead count for the same date range this year was 1,365 fish which was about 90% of the 2007 count of 1,515 fish. The 2008 wild steelhead count at Bonneville Dam was 523 fish as of April 17th. At Willamette Falls Dam, the 2008 count for steelhead was 3,297, as of April 16th. This year's steelhead count is about 68.6% of the 2007 count of 4,802 at Willamette Falls Dam.

At upriver sites, adult steelhead continue to move through the hydro system to reach their tributaries and spawning sites. The majority of these fish over-wintered in the pools and will complete their trip to the spawning grounds in March through early May. Daily counts at Lower Granite ranged from 112 to 157 adult steelhead last week. The total steelhead count passing at Lower Granite Dam as of April 17th was 6,030. The 2008 count was about 60.4% of the 2007 count of 9,976 and about 89.2% of the 10-year average count of 6,755 at Lower Granite Dam. The 2008 wild steelhead at Lower Granite Dam as of April 17th was 1,548. At Rock Island Dam, as of April 16th, 26 adult steelhead have been counted and at Rocky Reach Dam, 76 adult steelhead have been counted so far this season.

In an article in the Columbian on Thursday April 17th, staff writer Allen Thomas reported that sportsmen have been catching about 1,200 to 1,400 spring Chinook a day. Biologist Chris Kern of ODFW projected the catch through Sunday to be slightly more than 22,300 spring Chinook kept and 4,000 released. The spring Chinook sport-fishing season will close on Monday to avoid exceeding the spring Chinook sport-fishing allocation of 24,000 this spring.

Scott Learn, a writer for the Oregonian, reported on Thursday April 17th that a federal judge refused to stop Oregon and Washington from trapping and killing California sea lions at Bonneville Dam this spring to keep them from foraging on the endangered salmon at the dam.

The Humane Society had filed a lawsuit against the states' Bonneville Dam sea lion

predation control plan. State officials could begin trapping sea lions as early as Tuesday. The officials are authorized to capture and kill up to 85 sea lions a year for five years. Oregon states' goal is to capture 30 this year, with first priority given to relocating the animals to captive environments such as Sea World.

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

| Date       | Grand Coulee |       | Chief Joseph |       | Wells |       | Rocky Reach |       | Rock Island |       | Wanapum |       | Priest Rapids |       |
|------------|--------------|-------|--------------|-------|-------|-------|-------------|-------|-------------|-------|---------|-------|---------------|-------|
|            | Flow         | Spill | Flow         | Spill | Flow  | Spill | Flow        | Spill | Flow        | Spill | Flow    | Spill | Flow          | Spill |
| 04/04/2008 | 85.3         | 0.0   | 88.3         | 0.0   | 107.6 | 0.0   | 104.7       | 0.0   | 98.4        | 0.0   | 90.2    | 0.0   | 84.0          | 0.0   |
| 04/05/2008 | 52.9         | 0.0   | 47.1         | 0.0   | 50.7  | 0.0   | 54.3        | 0.0   | 56.1        | 0.0   | 101.9   | 0.0   | 102.7         | 0.0   |
| 04/06/2008 | 32.4         | 0.0   | 39.4         | 0.0   | 41.0  | 0.0   | 37.3        | 0.0   | 38.1        | 0.0   | 67.9    | 0.0   | 74.3          | 0.0   |
| 04/07/2008 | 82.3         | 0.0   | 74.2         | 0.0   | 82.7  | 0.0   | 85.6        | 0.0   | 86.4        | 0.0   | 78.9    | 1.2   | 67.2          | 0.0   |
| 04/08/2008 | 62.4         | 0.0   | 68.8         | 0.0   | 63.1  | 0.0   | 58.8        | 0.0   | 59.4        | 0.0   | 64.4    | 2.3   | 75.1          | 0.0   |
| 04/09/2008 | 75.7         | 0.0   | 72.3         | 0.0   | 63.0  | 0.0   | 59.2        | 0.0   | 60.4        | 0.0   | 56.3    | 0.0   | 58.6          | 0.0   |
| 04/10/2008 | 98.7         | 0.0   | 102.6        | 0.0   | 100.6 | 0.0   | 95.8        | 0.0   | 92.0        | 0.0   | 75.7    | 0.0   | 63.8          | 0.0   |
| 04/11/2008 | 92.9         | 0.0   | 94.2         | 0.0   | 101.7 | 0.0   | 101.0       | 0.0   | 97.5        | 0.0   | 106.7   | 0.0   | 103.9         | 0.0   |
| 04/12/2008 | 68.3         | 0.0   | 71.4         | 0.0   | 78.6  | 5.8   | 73.7        | 0.0   | 73.2        | 0.0   | 89.7    | 0.0   | 87.3          | 0.0   |
| 04/13/2008 | 70.0         | 0.0   | 63.6         | 0.0   | 60.8  | 4.3   | 56.1        | 0.0   | 56.2        | 0.0   | 74.1    | 0.0   | 70.7          | 0.0   |
| 04/14/2008 | 83.4         | 0.0   | 85.1         | 0.0   | 89.5  | 6.9   | 85.3        | 0.0   | 84.6        | 0.0   | 73.2    | 0.0   | 73.5          | 0.0   |
| 04/15/2008 | 89.2         | 0.0   | 92.0         | 0.0   | 102.3 | 7.4   | 98.9        | 0.0   | 95.3        | 0.0   | 104.2   | 0.0   | 98.2          | 0.0   |
| 04/16/2008 | 72.3         | 0.0   | 76.4         | 0.0   | 77.8  | 6.2   | 72.7        | 0.0   | 72.6        | 0.0   | 84.7    | 0.0   | 88.9          | 0.0   |
| 04/17/2008 | 65.7         | 0.0   | 66.9         | 0.0   | 71.8  | 5.4   | 69.4        | 0.0   | 69.7        | 9.6   | 83.8    | 0.0   | 78.4          | 0.0   |

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

| Date       | Dworshak |       | Brownlee Canyon |         | Hells Granite |       | Lower Granite |       | Little Goose |       | Lower Monumental |       | Ice Harbor |       |
|------------|----------|-------|-----------------|---------|---------------|-------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
|            | Flow     | Spill | Inflow          | Outflow | Flow          | Spill | Flow          | Spill | Flow         | Spill | Flow             | Spill | Flow       | Spill |
| 04/04/2008 | 15.5     | 4.7   | 13.0            | 16.8    | 42.5          | 20.4  | 40.8          | 12.2  | 39.6         | 26.5  | 42.1             | 32.5  |            |       |
| 04/05/2008 | 15.0     | 4.0   | 13.5            | 18.3    | 44.7          | 20.3  | 43.9          | 13.1  | 43.5         | 27.0  | 46.8             | 37.2  |            |       |
| 04/06/2008 | 15.0     | 3.9   | 13.1            | 15.5    | 45.3          | 20.3  | 44.7          | 13.4  | 43.0         | 29.6  | 46.6             | 37.0  |            |       |
| 04/07/2008 | 15.0     | 4.1   | 14.0            | 18.7    | 43.5          | 20.3  | 45.1          | 13.2  | 43.5         | 29.8  | 46.1             | 26.3  |            |       |
| 04/08/2008 | 14.9     | 4.4   | 13.8            | 17.4    | 47.8          | 20.3  | 47.1          | 14.0  | 44.1         | 27.8  | 49.3             | 29.0  |            |       |
| 04/09/2008 | 15.0     | 4.3   | 13.8            | 14.6    | 46.3          | 20.4  | 43.1          | 12.9  | 43.2         | 28.8  | 47.2             | 26.1  |            |       |
| 04/10/2008 | 15.0     | 4.2   | 13.9            | 16.2    | 46.1          | 20.3  | 45.2          | 13.5  | 42.7         | 28.9  | 46.2             | 24.1  |            |       |
| 04/11/2008 | 12.1     | 1.3   | 14.6            | 17.9    | 44.2          | 20.3  | 44.4          | 13.4  | 42.3         | 30.1  | 45.8             | 36.0  |            |       |
| 04/12/2008 | 10.8     | 0.0   | 15.8            | 14.8    | 45.5          | 20.2  | 44.2          | 13.3  | 43.0         | 30.7  | 50.3             | 40.4  |            |       |
| 04/13/2008 | 10.9     | 0.0   | 15.7            | 14.8    | 43.6          | 20.1  | 40.5          | 12.1  | 38.7         | 26.6  | 38.2             | 28.2  |            |       |
| 04/14/2008 | 10.9     | 0.0   | 18.1            | 18.7    | 54.7          | 20.2  | 56.2          | 17.0  | 54.7         | 26.1  | 61.0             | 46.6  |            |       |
| 04/15/2008 | 10.9     | 0.0   | 20.1            | 15.4    | 63.6          | 20.4  | 63.3          | 18.9  | 61.8         | 23.8  | 65.6             | 49.2  |            |       |
| 04/16/2008 | 11.0     | 0.0   | 19.0            | 16.6    | 62.7          | 20.3  | 61.4          | 18.5  | 61.3         | 23.8  | 66.7             | 46.4  |            |       |
| 04/17/2008 | 11.0     | 0.0   | ---             | ---     | 61.8          | 20.2  | 59.6          | 17.9  | 58.8         | 24.8  | 63.7             | 44.2  |            |       |

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

| Date       | McNary |       | John Day |       | The Dalles |       | Bonneville |       | PH1  | PH2  |
|------------|--------|-------|----------|-------|------------|-------|------------|-------|------|------|
|            | Flow   | Spill | Flow     | Spill | Flow       | Spill | Flow       | Spill |      |      |
| 04/04/2008 | 130.2  | 0.0   | 128.2    | 11.5  | 129.9      | 0.0   | 136.8      | 1.5   | 38.3 | 85.6 |
| 04/05/2008 | 120.3  | 0.0   | 99.4     | 0.0   | 103.2      | 0.0   | 119.4      | 1.6   | 24.4 | 82.0 |
| 04/06/2008 | 135.3  | 0.0   | 126.4    | 0.0   | 127.3      | 0.0   | 124.9      | 1.6   | 29.1 | 82.8 |
| 04/07/2008 | 116.5  | 0.0   | 128.9    | 0.0   | 135.3      | 0.0   | 149.4      | 1.6   | 49.6 | 86.9 |
| 04/08/2008 | 131.2  | 0.0   | 130.4    | 0.0   | 130.4      | 0.0   | 139.7      | 1.6   | 41.7 | 85.0 |
| 04/09/2008 | 113.2  | 6.5   | 128.2    | 0.0   | 130.2      | 0.0   | 149.3      | 1.6   | 47.2 | 89.1 |
| 04/10/2008 | 112.5  | 45.1  | 117.9    | 38.2  | 120.8      | 48.9  | 142.2      | 98.9  | 0.0  | 31.9 |
| 04/11/2008 | 139.3  | 56.0  | 145.4    | 42.7  | 140.8      | 56.3  | 146.9      | 99.3  | 0.0  | 36.3 |
| 04/12/2008 | 154.2  | 62.2  | 155.9    | 44.3  | 152.3      | 60.8  | 165.2      | 97.5  | 3.0  | 53.3 |
| 04/13/2008 | 121.0  | 49.0  | 104.6    | 33.4  | 104.4      | 41.9  | 140.1      | 90.2  | 0.0  | 38.5 |
| 04/14/2008 | 141.8  | 57.1  | 137.1    | 32.5  | 127.5      | 51.0  | 141.2      | 89.5  | 2.2  | 38.2 |
| 04/15/2008 | 160.6  | 64.6  | 160.6    | 44.1  | 156.2      | 62.4  | 158.8      | 95.9  | 0.0  | 51.5 |
| 04/16/2008 | 178.4  | 71.8  | 187.4    | 47.6  | 186.5      | 75.0  | 199.7      | 99.4  | 42.4 | 48.8 |
| 04/17/2008 | 160.2  | 64.5  | ---      | ---   | 156.3      | 62.6  | 186.3      | 100.9 | 0.0  | 74.1 |

## 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 |
| <b>Lower Granite Dam</b>    |          |                     |                |                    |                    |           |                  |  |        |        |        |
|                             | 04/08/08 | Chinook + Steelhead | 36             | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |
|                             | 04/15/08 | Chinook + Steelhead | 76             | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |
| <b>Little Goose Dam</b>     |          |                     |                |                    |                    |           |                  |  |        |        |        |
|                             | 04/15/08 | Chinook + Steelhead | 100            | 25                 | 25                 | 25.00%    | 1.00%            | 20   | 4      | 0      | 1      |
| <b>Rock Island Dam</b>      |          |                     |                |                    |                    |           |                  |  |        |        |        |
| <b>McNary Dam</b>           |          |                     |                |                    |                    |           |                  |  |        |        |        |
| <b>Bonneville Dam</b>       |          |                     |                |                    |                    |           |                  |  |        |        |        |
|                             | 04/08/08 | Chinook + Steelhead | 35             | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |
|                             | 04/12/08 | Chinook + Steelhead | 4              | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |
|                             | 04/15/08 | Chinook + Steelhead | 99             | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |
| <b>Lower Monumental Dam</b> |          |                     |                |                    |                    |           |                  |  |        |        |        |
|                             | 04/14/08 | Chinook + Steelhead | 36             | 0                  | 0                  | 0.00%     | 0.00%            | 0  | 0      | 0      | 0      |



## HATCHERY RELEASE LAST TWO WEEKS

### Hatchery Release Summary

From: **4/4/2008** to **04/17/08**

| Agency   | Hatchery                  | Species | Race | MigYr | NumRel           | RelStart | RelEnd   | RelSite                                      | RelRiver              |
|--|---------------------------|---------|------|-------|------------------|----------|----------|--|-----------------------|
| Colville Tribe                                 | Cassimer Bar Hatchery     | ST      | SU   | 2008  | 20,000           | 04-04-08 | 04-30-08 | Omak Creek                                   | Okanogan River        |
| Colville Tribe                                 | Entiat Hatchery           | CH1     | SP   | 2008  | 40,000           | 04-09-08 | 04-15-08 | Omak Creek                                   | Okanogan River        |
| Colville Tribe                                 | Entiat Hatchery           | CH1     | SP   | 2008  | 215,000          | 04-15-08 | 04-15-08 | Okanogan River                               | Okanogan River        |
| <b>Colville Tribe Total</b>                    |                           |         |      |       | <b>275,000</b>   |          |          |  |                       |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery       | ST      | SU   | 2008  | 83,000           | 04-07-08 | 04-18-08 | Red River                                    | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery       | ST      | SU   | 2008  | 144,600          | 04-07-08 | 04-18-08 | Crooked River<br>Redhouse (SFk               | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery       | ST      | SU   | 2008  | 248,500          | 04-07-08 | 04-18-08 | ClearH20 R)                                  | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 30,000           | 04-11-08 | 04-27-08 | Pahsimeroi River                             | Pahsimeroi River      |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 30,000           | 04-11-08 | 04-27-08 | Yankee Fk (Salmon R)                         | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 60,000           | 04-07-08 | 04-07-08 | Squaw Cr Acclim Pond                         | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Salmon River (ID)                            | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Squaw Creek                                  | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Yankee Fk (Salmon R)                         | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 80,000           | 04-11-08 | 04-27-08 | Shoup Br (Salmon R)                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 120,000          | 04-11-08 | 04-27-08 | McNabb/Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 120,000          | 04-11-08 | 04-27-08 | Salmon River (ID)                            | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 140,000          | 04-11-08 | 04-27-08 | Salmon River (ID)                            | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 191,000          | 04-11-08 | 04-27-08 | Squaw Creek                                  | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 217,185          | 04-07-08 | 04-10-08 | Little Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery     | ST      | SU   | 2008  | 225,000          | 04-11-08 | 04-27-08 | East Fk Salmon River                         | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Niagara Springs           | ST      | SU   | 2008  | 55,000           | 04-01-08 | 04-24-08 | Little Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Niagara Springs           | ST      | SU   | 2008  | 272,907          | 04-02-08 | 04-09-08 | Little Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Niagara Springs           | ST      | SU   | 2008  | 830,000          | 04-03-08 | 04-21-08 | Pahsimeroi River                             | Pahsimeroi River      |
| Idaho Dept. of Fish and Game                   | Pahsimeroi Hatchery       | CH1     | SU   | 2008  | 1,038,000        | 03-31-08 | 04-15-08 | Pahsimeroi River                             | Pahsimeroi River      |
| Idaho Dept. of Fish and Game                   | Rapid River Hatchery      | CH1     | SP   | 2008  | 2,500,000        | 03-17-08 | 04-25-08 | Rapid River Hatchery                         | Little Salmon River   |
| Idaho Dept. of Fish and Game                   | Sawtooth Hatchery         | CH1     | SP   | 2008  | 174,000          | 04-11-08 | 04-25-08 | Salmon River (ID)                            | Salmon River (ID)     |
| <b>Idaho Dept. of Fish and Game Total</b>      |                           |         |      |       | <b>6,739,192</b> |          |          |  |                       |
| Nez Perce Tribe                                | Cascade Hatchery          | CO      | UN   | 2008  | 74,696           | 04-08-08 | 04-08-08 | Clear Creek                                  | Clearwater River M F  |
| Nez Perce Tribe                                | Clearwater Hatchery       | ST      | SU   | 2008  | 31,400           | 04-13-08 | 04-19-08 | Meadow Creek - CLES                          | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery       | ST      | SU   | 2008  | 31,400           | 04-13-08 | 04-19-08 | Mill Cr Bridge                               | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery       | ST      | SU   | 2008  | 45,600           | 04-13-08 | 04-19-08 | Lolo Creek                                   | Clearwater River M F  |
| Nez Perce Tribe                                | Clearwater Hatchery       | ST      | SU   | 2008  | 72,100           | 04-13-08 | 04-19-08 | Crooked River                                | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery       | ST      | SU   | 2008  | 163,500          | 04-13-08 | 04-19-08 | Red River                                    | S Fk Clearwater River |
| Nez Perce Tribe                                | Dworshak NFH              | CO      | UN   | 2008  | 291,794          | 04-08-08 | 04-08-08 | Clear Creek                                  | Clearwater River M F  |
| Nez Perce Tribe                                | Dworshak NFH              | ST      | SU   | 2008  | 100,000          | 04-14-08 | 04-18-08 | American River                               | S Fk Clearwater River |
| Nez Perce Tribe                                | Dworshak NFH              | ST      | SU   | 2008  | 100,000          | 04-14-08 | 04-18-08 | Newsome Creek                                | S Fk Clearwater River |
| Nez Perce Tribe                                | Lookingglass Hatchery     | CH1     | SP   | 2008  | 131,500          | 04-10-08 | 04-17-08 | Lostine Accim Pond<br>Big Canyon (Clearwater | Wallowa River         |
| Nez Perce Tribe                                | Lyons Ferry Hatchery      | CH1     | FA   | 2008  | 147,832          | 04-15-08 | 04-15-08 | River)<br>Pittsburg Landing                  | Clearwater River M F  |
| Nez Perce Tribe                                | Lyons Ferry Hatchery      | CH1     | FA   | 2008  | 150,357          | 04-14-08 | 04-14-08 | Acclim Pond                                  | Snake River           |
| Nez Perce Tribe                                | Lyons Ferry Hatchery      | CH1     | FA   | 2008  | 153,681          | 04-14-08 | 04-14-08 | Cpt John Acclim Pond<br>Nez Perce Tribal     | Snake River           |
| Nez Perce Tribe                                | Nez Perce Tribal Hatchery | CH1     | SP   | 2008  | 126,000          | 04-07-08 | 04-10-08 | Hatchery                                     | Clearwater River M F  |
| <b>Nez Perce Tribe Total</b>                   |                           |         |      |       | <b>1,619,860</b> |          |          |  |                       |
| Oregon Dept. of Fish and Wildlife              | Irrigon Hatchery Complex  | ST      | SU   | 2008  | 101,400          | 04-09-08 | 04-10-08 | Big Sheep Creek                              | Imnaha River          |
| Oregon Dept. of Fish and Wildlife              | Irrigon Hatchery Complex  | ST      | SU   | 2008  | 160,000          | 04-14-08 | 04-14-08 | Big Canyon Acclim.Pd<br>(Grande Ronde)       | Grande Ronde River    |
| Oregon Dept. of Fish and Wildlife              | Irrigon Hatchery Complex  | ST      | SU   | 2008  | 165,000          | 04-15-08 | 04-15-08 | L Sheep Acclim Pond                          | Imnaha River          |
| Oregon Dept. of Fish and Wildlife              | Irrigon Hatchery Complex  | ST      | SU   | 2008  | 360,000          | 04-08-08 | 04-08-08 | Wallowa Acclim Pond                          | Wallowa River         |
| Oregon Dept. of Fish and Wildlife              | Lookingglass Hatchery     | CH1     | SP   | 2008  | 348,910          | 03-25-08 | 04-06-08 | Imnaha Acclim Pond                           | Imnaha River          |
| Oregon Dept. of Fish and Wildlife              | Oak Springs Hatchery      | ST      | SU   | 2008  | 500              | 04-15-08 | 04-15-08 | Deschutes River                              | Deschutes River       |
| Oregon Dept. of Fish and Wildlife              | Round Butte Hatchery      | ST      | SU   | 2008  | 162,000          | 04-07-08 | 04-07-08 | Deschutes River                              | Deschutes River       |
| <b>Oregon Dept. of Fish and Wildlife Total</b> |                           |         |      |       | <b>1,297,810</b> |          |          |  |                       |

**HATCHERY RELEASE LAST TWO WEEKS (Cont'd)**

|  |                          |     |    |      |                   |          |          |  |  |
|--|--------------------------|-----|----|------|-------------------|----------|----------|--|--|
| U.S. Fish and Wildlife Service                     | Carson NFH               | CH1 | SP | 2008 | 1,336,741         | 04-11-08 | 04-11-08 | Carson Hatchery                          | Wind River                                     |
| U.S. Fish and Wildlife Service                     | Dworshak NFH             | ST  | SU | 2008 | 300,000           | 04-14-08 | 04-18-08 | Clear Creek Redhouse (SFk                | Clearwater River M F                           |
| U.S. Fish and Wildlife Service                     | Dworshak NFH             | ST  | SU | 2008 | 400,000           | 04-14-08 | 04-18-08 | ClearH20 R)                              | S Fk Clearwater River                          |
| U.S. Fish and Wildlife Service                     | Hagerman NFH             | ST  | SU | 2008 | 782,000           | 04-07-08 | 04-25-08 | Salmon River (ID)                        | Salmon River (ID)                              |
| U.S. Fish and Wildlife Service                     | Kooskia NFH              | CH1 | SP | 2008 | 649,601           | 04-07-08 | 04-07-08 | Kooskia Hatchery Little White Salmon     | Clearwater River M F Little White Salmon River |
| U.S. Fish and Wildlife Service                     | Little White Salmon NFH  | CH1 | SP | 2008 | 934,438           | 04-17-08 | 04-17-08 | River                                    | River  |
| U.S. Fish and Wildlife Service                     | Spring Creek NFH         | CH0 | FA | 2008 | 4,013,900         | 04-10-08 | 04-10-08 | Spring Creek Hatchery Warm Springs       | L Col R (D/s McN Dam)                          |
| U.S. Fish and Wildlife Service                     | Warm Springs NFH         | CH1 | SP | 2008 | 376,000           | 03-23-08 | 04-23-08 | Hatchery                                 | Deschutes River                                |
| U.S. Fish and Wildlife Service                     | Winthrop NFH             | CH1 | SP | 2008 | 511,242           | 04-14-08 | 04-18-08 | Winthrop Hatchery                        | Methow River                                   |
| <b>U.S. Fish and Wildlife Service Total</b>        |                          |     |    |      | <b>9,303,922</b>  |          |          |  |  |
| Umatilla Tribe                                     | Cascade Hatchery         | CO  | UN | 2008 | 778,013           | 04-16-08 | 04-16-08 | Pendelton Acclim Pond                    | Umatilla River                                 |
| Umatilla Tribe                                     | Lookingglass Hatchery    | CH1 | SP | 2008 | 116,882           | 03-24-08 | 04-14-08 | Catherine Creek Grande Ronde Acclim      | Grande Ronde River                             |
| Umatilla Tribe                                     | Lookingglass Hatchery    | CH1 | SP | 2008 | 132,441           | 04-07-08 | 04-14-08 | Pond                                     | Grande Ronde River                             |
| Umatilla Tribe                                     | Umatilla Hatchery        | CH1 | SP | 2008 | 463,782           | 03-04-08 | 04-10-08 | Imeques Acclim Pond                      | Umatilla River                                 |
| <b>Umatilla Tribe Total</b>                        |                          |     |    |      | <b>1,491,118</b>  |          |          |  |  |
| Warm Springs Tribe                                 | Round Butte Hatchery     | CH1 | SP | 2008 | 69,612            | 04-09-08 | 05-07-08 | Blackberry Acclim Pond                   | Hood River                                     |
| <b>Warm Springs Tribe Total</b>                    |                          |     |    |      | <b>69,612</b>     |          |          |  |  |
| Washington Dept. of Fish and Wildlife              | Chiwawa Hatchery         | CH1 | SP | 2008 | 615,000           | 04-14-08 | 05-14-08 | Chiwawa River                            | Wenatchee River                                |
| Washington Dept. of Fish and Wildlife              | Eastbank Hatchery        | CH1 | SU | 2008 | 608,000           | 04-16-08 | 05-14-08 | Similkameen Acclim Pd                    | Okanogan River                                 |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | CH1 | FA | 2008 | 459,633           | 04-07-08 | 04-10-08 | Lyons Ferry Hatchery                     | Snake River                                    |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 60,000            | 04-15-08 | 04-17-08 | Lyons Ferry Hatchery                     | Snake River                                    |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 100,000           | 04-15-08 | 04-17-08 | Tucannon River                           | Tucannon River                                 |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 100,000           | 04-15-08 | 04-17-08 | Walla Walla River                        | Walla Walla River                              |
| Washington Dept. of Fish and Wildlife              | Methow Hatchery          | CH1 | SP | 2008 | 47,000            | 04-15-08 | 04-15-08 | Twisp Acclim Pond                        | Methow River                                   |
| Washington Dept. of Fish and Wildlife              | Methow Hatchery          | CH1 | SP | 2008 | 190,000           | 04-15-08 | 04-15-08 | Chewuch Acclim Pond                      | Methow River                                   |
| Washington Dept. of Fish and Wildlife              | Methow Hatchery          | CH1 | SP | 2008 | 210,000           | 04-15-08 | 04-15-08 | Methow Hatchery                          | Methow River                                   |
| Washington Dept. of Fish and Wildlife              | Methow Hatchery          | CH1 | SU | 2008 | 421,000           | 04-14-08 | 05-14-08 | Carlton Acclim Pond Ringold Springs      | Methow River                                   |
| Washington Dept. of Fish and Wildlife              | Ringold Springs Hatchery | CH1 | SP | 2008 | 329,853           | 04-01-08 | 04-08-08 | Hatchery Ringold Springs                 | Mid-Columbia River                             |
| Washington Dept. of Fish and Wildlife              | Ringold Springs Hatchery | ST  | SU | 2008 | 180,000           | 04-14-08 | 04-25-08 | Hatchery                                 | Mid-Columbia River                             |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | CH1 | SP | 2008 | 78,000            | 04-10-08 | 04-24-08 | Tucannon River                           | Tucannon River                                 |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | CH1 | SP | 2008 | 106,000           | 04-10-08 | 04-24-08 | Tucannon River                           | Tucannon River                                 |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | ST  | SU | 2008 | 57,000            | 04-15-08 | 04-18-08 | Tucannon River                           | Tucannon River                                 |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | CH1 | SU | 2008 | 313,000           | 04-14-08 | 05-15-08 | Wells Hatchery                           | Mid-Columbia River                             |
| <b>Washington Dept. of Fish and Wildlife Total</b> |                          |     |    |      | <b>3,874,486</b>  |          |          |  |  |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 211,004           | 03-15-08 | 05-15-08 | Clark Flat Acclim Pond Jack Creek Acclim | Yakima River                                   |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 217,146           | 03-15-08 | 05-15-08 | Pond                                     | Yakima River                                   |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 219,470           | 03-15-08 | 05-15-08 | Easton Pond                              | Yakima River                                   |
| <b>Yakama Tribe Total</b>                          |                          |     |    |      | <b>647,620</b>    |          |          |  |  |
| <b>Grand Total</b>                                 |                          |     |    |      | <b>25,318,620</b> |          |          |  |  |

## HATCHERY RELEASE NEXT TWO WEEKS

### Hatchery Release Summary

From: **4/18/2008** to **5/1/2008**

| Agency   | Hatchery                 | Species | Race | MigYr | NumRel           | RelStart | RelEnd   | RelSite                                       | RelRiver              |
|--|--------------------------|---------|------|-------|------------------|----------|----------|---|-----------------------|
| Colville Tribe                                 | Cassimer Bar Hatchery    | ST      | SU   | 2008  | 20,000           | 04-04-08 | 04-30-08 | Omak Creek                                    | Okanogan River        |
| <b>Colville Tribe Total</b>                    |                          |         |      |       | <b>20,000</b>    |          |          |   |                       |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery      | ST      | SU   | 2008  | 83,000           | 04-07-08 | 04-18-08 | Red River                                     | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery      | ST      | SU   | 2008  | 144,600          | 04-07-08 | 04-18-08 | Crooked River<br>Redhouse (SFk<br>ClearH20 R) | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Clearwater Hatchery      | ST      | SU   | 2008  | 248,500          | 04-07-08 | 04-18-08 | ClearH20 R)                                   | S Fk Clearwater River |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 30,000           | 04-11-08 | 04-27-08 | Pahsimeroi River                              | Pahsimeroi River      |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 30,000           | 04-11-08 | 04-27-08 | Yankee Fk (Salmon R)                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 30,000           | 04-29-08 | 04-30-08 | Slate Creek                                   | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 50,000           | 04-28-08 | 04-29-08 | Valley Creek                                  | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Salmon River (ID)                             | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Squaw Creek                                   | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 60,000           | 04-11-08 | 04-27-08 | Yankee Fk (Salmon R)                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 60,000           | 04-30-08 | 04-30-08 | East Fk Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 60,000           | 05-01-08 | 05-01-08 | Slate Creek                                   | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 80,000           | 04-11-08 | 04-27-08 | Shoup Br (Salmon R)                           | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 120,000          | 04-11-08 | 04-27-08 | McNabb/Salmon River                           | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 120,000          | 04-11-08 | 04-27-08 | Salmon River (ID)                             | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 140,000          | 04-11-08 | 04-27-08 | Salmon River (ID)                             | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 191,000          | 04-11-08 | 04-27-08 | Squaw Creek                                   | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Magic Valley Hatchery    | ST      | SU   | 2008  | 225,000          | 04-11-08 | 04-27-08 | East Fk Salmon River                          | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Niagara Springs          | ST      | SU   | 2008  | 55,000           | 04-01-08 | 04-24-08 | Little Salmon River                           | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Niagara Springs          | ST      | SU   | 2008  | 830,000          | 04-03-08 | 04-21-08 | Pahsimeroi River                              | Pahsimeroi River      |
| Idaho Dept. of Fish and Game                   | Oxbow-Idaho              | SO      | UN   | 2008  | 70,000           | 05-01-08 | 05-01-08 | Redfish Lake Creek                            | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Rapid River Hatchery     | CH1     | SP   | 2008  | 2,500,000        | 03-17-08 | 04-25-08 | Rapid River Hatchery                          | Little Salmon River   |
| Idaho Dept. of Fish and Game                   | Sawtooth Hatchery        | CH1     | SP   | 2008  | 174,000          | 04-11-08 | 04-25-08 | Salmon River (ID)                             | Salmon River (ID)     |
| Idaho Dept. of Fish and Game                   | Sawtooth Hatchery        | SO      | UN   | 2008  | 70,000           | 05-01-08 | 05-01-08 | Salmon River (ID)                             | Salmon River (ID)     |
| <b>Idaho Dept. of Fish and Game Total</b>      |                          |         |      |       | <b>5,491,100</b> |          |          |   |                       |
| Nez Perce Tribe                                | Clearwater Hatchery      | ST      | SU   | 2008  | 31,400           | 04-13-08 | 04-19-08 | Meadow Creek - CLES                           | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery      | ST      | SU   | 2008  | 31,400           | 04-13-08 | 04-19-08 | Mill Cr Bridge                                | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery      | ST      | SU   | 2008  | 45,600           | 04-13-08 | 04-19-08 | Lolo Creek                                    | Clearwater River M F  |
| Nez Perce Tribe                                | Clearwater Hatchery      | ST      | SU   | 2008  | 72,100           | 04-13-08 | 04-19-08 | Crooked River                                 | S Fk Clearwater River |
| Nez Perce Tribe                                | Clearwater Hatchery      | ST      | SU   | 2008  | 163,500          | 04-13-08 | 04-19-08 | Red River                                     | S Fk Clearwater River |
| Nez Perce Tribe                                | Dworshak NFH             | ST      | SU   | 2008  | 100,000          | 04-14-08 | 04-18-08 | American River                                | S Fk Clearwater River |
| Nez Perce Tribe                                | Dworshak NFH             | ST      | SU   | 2008  | 100,000          | 04-14-08 | 04-18-08 | Newsome Creek                                 | S Fk Clearwater River |
| <b>Nez Perce Tribe Total</b>                   |                          |         |      |       | <b>544,000</b>   |          |          |   |                       |
| Oregon Dept. of Fish and Wildlife              | Irrigon Hatchery Complex | ST      | SU   | 2008  | 160,000          | 05-01-08 | 05-01-08 | Big Canyon Acclim.Pd<br>(Grande Ronde)        | Grande Ronde River    |
| Oregon Dept. of Fish and Wildlife              | Umatilla Hatchery        | ST      | SU   | 2008  | 50,000           | 04-29-08 | 04-29-08 | Meacham Creek                                 | Umatilla River        |
| <b>Oregon Dept. of Fish and Wildlife Total</b> |                          |         |      |       | <b>210,000</b>   |          |          |   |                       |
| U.S. Fish and Wildlife Service                 | Dworshak NFH             | ST      | SU   | 2008  | 300,000          | 04-14-08 | 04-18-08 | Clear Creek<br>Redhouse (SFk)                 | Clearwater River M F  |
| U.S. Fish and Wildlife Service                 | Dworshak NFH             | ST      | SU   | 2008  | 400,000          | 04-14-08 | 04-18-08 | ClearH20 R)                                   | S Fk Clearwater River |
| U.S. Fish and Wildlife Service                 | Dworshak NFH             | ST      | SU   | 2008  | 1,300,000        | 04-21-08 | 04-21-08 | Dworshak Hatchery                             | Clearwater River M F  |
| U.S. Fish and Wildlife Service                 | Hagerman NFH             | ST      | SU   | 2008  | 103,000          | 04-28-08 | 05-02-08 | Yankee Fk (Salmon R)                          | Salmon River (ID)     |
| U.S. Fish and Wildlife Service                 | Hagerman NFH             | ST      | SU   | 2008  | 144,000          | 04-28-08 | 05-02-08 | Yankee Fk (Salmon R)                          | Salmon River (ID)     |
| U.S. Fish and Wildlife Service                 | Hagerman NFH             | ST      | SU   | 2008  | 782,000          | 04-07-08 | 04-25-08 | Salmon River (ID)                             | Salmon River (ID)     |
| U.S. Fish and Wildlife Service                 | Leavenworth NFH          | CH1     | SP   | 2008  | 1,535,000        | 04-24-08 | 04-24-08 | Icicle Creek                                  | Wenatchee River       |
| U.S. Fish and Wildlife Service                 | Spring Creek NFH         | CH0     | FA   | 2008  | 3,750,000        | 05-01-08 | 05-07-08 | Spring Creek Hatchery<br>Warm Springs         | L Col R (D/s McN Dam) |
| U.S. Fish and Wildlife Service                 | Warm Springs NFH         | CH1     | SP   | 2008  | 376,000          | 03-23-08 | 04-23-08 | Hatchery                                      | Deschutes River       |
| U.S. Fish and Wildlife Service                 | Winthrop NFH             | CH1     | SP   | 2008  | 511,242          | 04-14-08 | 04-18-08 | Winthrop Hatchery                             | Methow River          |
| U.S. Fish and Wildlife Service                 | Winthrop NFH             | ST      | SU   | 2008  | 118,470          | 04-28-08 | 04-30-08 | Winthrop Hatchery                             | Methow River          |
| <b>U.S. Fish and Wildlife Service Total</b>    |                          |         |      |       | <b>9,319,712</b> |          |          |   |                       |
| Umatilla Tribe                                 | Umatilla Hatchery        | ST      | SU   | 2008  | 50,000           | 04-29-08 | 04-29-08 | Minthorn Acclimation<br>Pond                  | Umatilla River        |
| Umatilla Tribe                                 | Umatilla Hatchery        | ST      | SU   | 2008  | 50,000           | 04-29-08 | 04-29-08 | Pendelton Acclim Pond                         | Umatilla River        |
| <b>Umatilla Tribe Total</b>                    |                          |         |      |       | <b>100,000</b>   |          |          |   |                       |
| Warm Springs Tribe                             | Oak Springs Hatchery     | ST      | SU   | 2008  | 12,221           | 04-22-08 | 05-08-08 | Blackberry Acclim Pond                        | Hood River            |
| Warm Springs Tribe                             | Oak Springs Hatchery     | ST      | WI   | 2008  | 26,812           | 04-24-08 | 05-16-08 | Parkdale Acclim Pond                          | Hood River            |
| Warm Springs Tribe                             | Oak Springs Hatchery     | ST      | WI   | 2008  | 40,518           | 04-25-08 | 05-15-08 | E Fk Hood River                               | Hood River            |
| Warm Springs Tribe                             | Round Butte Hatchery     | CH1     | SP   | 2008  | 69,612           | 04-09-08 | 05-07-08 | Blackberry Acclim Pond                        | Hood River            |
| <b>Warm Springs Tribe Total</b>                |                          |         |      |       | <b>149,163</b>   |          |          |   |                       |

**HATCHERY RELEASE NEXT TWO WEEKS (Cont'd)**

|  |                          |     |    |      |                   |          |          |   |                    |
|--|--------------------------|-----|----|------|-------------------|----------|----------|---|--------------------|
| Washington Dept. of Fish and Wildlife              | Chiwawa Hatchery         | CH1 | SP | 2008 | 615,000           | 04-14-08 | 05-14-08 | Chiwawa River                                 | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Eastbank Hatchery        | CH1 | SU | 2008 | 608,000           | 04-16-08 | 05-14-08 | Similkameen Acclim Pd                         | Okanogan River     |
| Washington Dept. of Fish and Wildlife              | Eastbank Hatchery        | CH1 | SU | 2008 | 926,000           | 04-30-08 | 04-30-08 | Dryden Acclim Pond                            | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Little White Salmon NFH  | CH1 | SP | 2008 | 115,000           | 05-01-08 | 05-31-08 | Lake Wenatchee                                | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 68,000            | 04-21-08 | 05-01-08 | Baileysburg Bridge                            | Touchet River      |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 85,000            | 04-21-08 | 04-25-08 | Dayton Acclim Pond<br>Cottonwood Acclim       | Touchet River      |
| Washington Dept. of Fish and Wildlife              | Lyons Ferry Hatchery     | ST  | SU | 2008 | 160,000           | 04-21-08 | 04-25-08 | Pond  | Grande Ronde River |
| Washington Dept. of Fish and Wildlife              | Methow Hatchery          | CH1 | SU | 2008 | 421,000           | 04-14-08 | 05-14-08 | Carlton Acclim Pond<br>Ringold Springs        | Methow River       |
| Washington Dept. of Fish and Wildlife              | Ringold Springs Hatchery | ST  | SU | 2008 | 180,000           | 04-14-08 | 04-25-08 | Hatchery                                      | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife              | Skamania Hatchery        | ST  | SU | 2008 | 24,750            | 04-24-08 | 05-15-08 | White Salmon River                            | White Salmon River |
| Washington Dept. of Fish and Wildlife              | Skamania Hatchery        | ST  | SU | 2008 | 94,000            | 04-24-08 | 05-15-08 | Klickitat River                               | Klickitat River    |
| Washington Dept. of Fish and Wildlife              | Skamania Hatchery        | ST  | WI | 2008 | 21,000            | 04-24-08 | 05-15-08 | White Salmon River                            | White Salmon River |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | CH1 | SP | 2008 | 78,000            | 04-10-08 | 04-24-08 | Tucannon River                                | Tucannon River     |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | CH1 | SP | 2008 | 106,000           | 04-10-08 | 04-24-08 | Tucannon River                                | Tucannon River     |
| Washington Dept. of Fish and Wildlife              | Tucannon Hatchery        | ST  | SU | 2008 | 57,000            | 04-15-08 | 04-18-08 | Tucannon River                                | Tucannon River     |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | CH1 | SU | 2008 | 44,000            | 04-28-08 | 05-15-08 | Turtle Rock Hatchery                          | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | CH1 | SU | 2008 | 99,000            | 05-01-08 | 05-15-08 | Chelan Falls                                  | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | ST  | SU | 2008 | 6,000             | 05-01-08 | 05-11-08 | Chiwawa River                                 | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | ST  | SU | 2008 | 43,000            | 05-01-08 | 05-11-08 | Chiwawa River                                 | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | ST  | SU | 2008 | 87,000            | 05-01-08 | 05-11-08 | Wenatchee River                               | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | ST  | SU | 2008 | 95,000            | 05-01-08 | 05-11-08 | Nason Creek                                   | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Turtle Rock Hatchery     | ST  | SU | 2008 | 97,567            | 05-01-08 | 05-11-08 | Wenatchee River                               | Wenatchee River    |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | CH1 | SU | 2008 | 313,000           | 04-14-08 | 05-15-08 | Wells Hatchery                                | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | ST  | SU | 2008 | 90,000            | 04-21-08 | 05-15-08 | Twisp River                                   | Methow River       |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | ST  | SU | 2008 | 110,000           | 04-21-08 | 05-15-08 | Chewuch River                                 | Methow River       |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | ST  | SU | 2008 | 110,000           | 04-21-08 | 05-15-08 | Methow River                                  | Methow River       |
| Washington Dept. of Fish and Wildlife              | Wells Hatchery           | ST  | SU | 2008 | 138,000           | 04-21-08 | 05-15-08 | Okanogan River                                | Okanogan River     |
| <b>Washington Dept. of Fish and Wildlife Total</b> |                          |     |    |      | <b>4,791,317</b>  |          |          |   |                    |
| Yakama Tribe                                       | Cascade Hatchery         | CO  | UN | 2008 | 62,201            | 05-01-08 | 05-10-08 | Wenatchee River                               | Wenatchee River    |
| Yakama Tribe                                       | Cascade Hatchery         | CO  | UN | 2008 | 69,402            | 05-01-08 | 05-10-08 | Rolfings Acclim Pond<br>Butcher Creek Acclim. | Wenatchee River    |
| Yakama Tribe                                       | Cascade Hatchery         | CO  | UN | 2008 | 147,905           | 05-01-08 | 05-10-08 | Pond  | Wenatchee River    |
| Yakama Tribe                                       | Cascade Hatchery         | CO  | UN | 2008 | 149,312           | 04-21-08 | 04-25-08 | Icicle Creek                                  | Wenatchee River    |
| Yakama Tribe                                       | Cascade Hatchery         | CO  | UN | 2008 | 224,773           | 04-21-08 | 04-24-08 | Icicle Creek                                  | Wenatchee River    |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 211,004           | 03-15-08 | 05-15-08 | Clark Flat Acclim Pond<br>Jack Creek Acclim   | Yakima River       |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 217,146           | 03-15-08 | 05-15-08 | Pond  | Yakima River       |
| Yakama Tribe                                       | Cle Elem Hatchery        | CH1 | SP | 2008 | 219,470           | 03-15-08 | 05-15-08 | Easton Pond                                   | Yakima River       |
| Yakama Tribe                                       | Eagle Creek NFH          | CO  | UN | 2008 | 40,964            | 04-21-08 | 05-01-08 | Prosser Acclim Pond                           | Yakima River       |
| Yakama Tribe                                       | Eagle Creek NFH          | CO  | UN | 2008 | 100,000           | 04-21-08 | 05-01-08 | Easton Pond<br>Lost Creek Acclim              | Yakima River       |
| Yakama Tribe                                       | Eagle Creek NFH          | CO  | UN | 2008 | 100,000           | 04-21-08 | 05-01-08 | Pond  | Yakima River       |
| Yakama Tribe                                       | Eagle Creek NFH          | CO  | UN | 2008 | 100,000           | 04-21-08 | 05-01-08 | Stiles Pond                                   | Yakima River       |
| Yakama Tribe                                       | Eagle Creek NFH          | CO  | UN | 2008 | 150,000           | 04-21-08 | 05-01-08 | Holmes Pond                                   | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CH0 | FA | 2008 | 300,000           | 04-21-08 | 04-21-08 | Prosser Acclim Pond                           | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CH0 | FA | 2008 | 500,000           | 04-18-08 | 04-18-08 | Prosser Acclim Pond                           | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 12,000            | 04-28-08 | 05-02-08 | Cle Elum Lake                                 | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 40,150            | 04-21-08 | 05-01-08 | Prosser Acclim Pond                           | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 40,579            | 04-21-08 | 05-01-08 | Boone Pond<br>Lost Creek Acclim               | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 41,095            | 04-21-08 | 05-01-08 | Pond  | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 42,447            | 04-21-08 | 05-01-08 | Stiles Pond                                   | Yakima River       |
| Yakama Tribe                                       | Prosser Acclim. Pond     | CO  | UN | 2008 | 120,425           | 04-21-08 | 05-01-08 | Holmes Pond                                   | Yakima River       |
| Yakama Tribe                                       | Washougal Hatchery       | CO  | NO | 2008 | 39,726            | 04-21-08 | 05-01-08 | Yakama River                                  | Yakima River       |
| Yakama Tribe                                       | Washougal Hatchery       | CO  | NO | 2008 | 89,328            | 04-21-08 | 05-01-08 | Boone Pond                                    | Yakima River       |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 27,570            | 05-01-08 | 05-10-08 | Wenatchee River                               | Wenatchee River    |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 30,425            | 05-01-08 | 05-10-08 | Rolfings Acclim Pond                          | Wenatchee River    |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 70,299            | 05-01-08 | 05-10-08 | Coulter Creek                                 | Wenatchee River    |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 71,946            | 04-21-08 | 04-25-08 | Icicle Creek                                  | Wenatchee River    |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 83,866            | 04-21-08 | 04-30-08 | Methow River                                  | Methow River       |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 133,793           | 04-21-08 | 04-24-08 | Icicle Creek                                  | Wenatchee River    |
| Yakama Tribe                                       | Willard Hatchery         | CO  | UN | 2008 | 211,543           | 05-01-08 | 05-10-08 | Wells Hatchery                                | Mid-Columbia River |
| Yakama Tribe                                       | Winthrop NFH             | CO  | UN | 2008 | 267,004           | 04-19-08 | 04-25-08 | Winthrop Hatchery                             | Methow River       |
| Yakama Tribe                                       | Yakama Hatchery          | CH0 | FA | 2008 | 12,000            | 04-18-08 | 04-18-08 | Marion Drain                                  | Yakima River       |
| <b>Yakama Tribe Total</b>                          |                          |     |    |      | <b>3,926,373</b>  |          |          |   |                    |
| <b>Grand Total</b>                                 |                          |     |    |      | <b>24,551,665</b> |          |          |   |                    |

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

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

| Date | <u>Hungry H. Dnst</u> |             |             | <u>Boundary</u> |             |            | <u>Grand Coulee</u> |             |            | <u>Grand C. Tlwr</u> |             |           | <u>Chief Joseph</u> |             |             | #  |           |     |     |    |
|------|-----------------------|-------------|-------------|-----------------|-------------|------------|---------------------|-------------|------------|----------------------|-------------|-----------|---------------------|-------------|-------------|----|-----------|-----|-----|----|
|      | <u>24 h</u>           | <u>12 h</u> | <u>#</u>    | <u>24 h</u>     | <u>12 h</u> | <u>#</u>   | <u>24 h</u>         | <u>12 h</u> | <u>#</u>   | <u>24 h</u>          | <u>12 h</u> | <u>#</u>  | <u>24 h</u>         | <u>12 h</u> | <u>#</u>    |    |           |     |     |    |
|      | <u>Avg</u>            | <u>Avg</u>  | <u>High</u> | <u>hr</u>       | <u>Avg</u>  | <u>Avg</u> | <u>High</u>         | <u>hr</u>   | <u>Avg</u> | <u>Avg</u>           | <u>High</u> | <u>hr</u> | <u>Avg</u>          | <u>Avg</u>  | <u>High</u> |    | <u>hr</u> |     |     |    |
| 4/4  | 98                    | 98          | 99          | 24              | 105         | 106        | 108                 | 22          | 105        | 106                  | 106         | 24        | 104                 | 105         | 106         | 22 | ---       | --- | --- | 0  |
| 4/5  | 98                    | 98          | 98          | 24              | 104         | 104        | 105                 | 22          | 105        | 106                  | 106         | 24        | 105                 | 106         | 108         | 22 | ---       | --- | --- | 0  |
| 4/6  | 98                    | 98          | 98          | 24              | 104         | 104        | 105                 | 23          | 106        | 106                  | 106         | 24        | 105                 | 106         | 107         | 23 | ---       | --- | --- | 0  |
| 4/7  | 97                    | 98          | 98          | 24              | 104         | 105        | 105                 | 22          | 105        | 105                  | 106         | 24        | 105                 | 105         | 107         | 22 | ---       | --- | --- | 0  |
| 4/8  | 98                    | 98          | 98          | 24              | 104         | 104        | 106                 | 22          | 105        | 106                  | 106         | 24        | 104                 | 105         | 106         | 22 | ---       | --- | --- | 0  |
| 4/9  | 98                    | 98          | 99          | 24              | 104         | 105        | 105                 | 24          | 105        | 106                  | 106         | 24        | 104                 | 105         | 107         | 24 | ---       | --- | --- | 0  |
| 4/10 | 97                    | 97          | 97          | 24              | 104         | 104        | 105                 | 22          | 105        | 105                  | 106         | 24        | 103                 | 104         | 104         | 22 | ---       | --- | --- | 0  |
| 4/11 | 96                    | 96          | 97          | 24              | 103         | 104        | 105                 | 24          | 105        | 105                  | 106         | 24        | 103                 | 103         | 104         | 24 | ---       | --- | --- | 0  |
| 4/12 | 96                    | 96          | 97          | 24              | 104         | 106        | 106                 | 22          | 106        | 107                  | 107         | 24        | 104                 | 105         | 105         | 22 | ---       | --- | --- | 0  |
| 4/13 | 97                    | 97          | 98          | 24              | 105         | 106        | 107                 | 23          | 107        | 108                  | 109         | 24        | 105                 | 107         | 107         | 23 | ---       | --- | --- | 0  |
| 4/14 | 98                    | 98          | 98          | 24              | 106         | 107        | 108                 | 21          | 108        | 108                  | 108         | 24        | 106                 | 106         | 107         | 21 | 103       | 103 | 103 | 20 |
| 4/15 | 98                    | 98          | 98          | 24              | 105         | 105        | 106                 | 21          | 106        | 106                  | 107         | 24        | 104                 | 105         | 107         | 21 | 102       | 102 | 102 | 24 |
| 4/16 | 97                    | 97          | 98          | 24              | 105         | 106        | 107                 | 23          | 105        | 105                  | 106         | 24        | 104                 | 104         | 105         | 23 | 102       | 102 | 102 | 7  |
| 4/17 | 97                    | 98          | 98          | 24              | 105         | 107        | 108                 | 22          | 107        | 107                  | 108         | 24        | 105                 | 105         | 107         | 22 | ---       | --- | --- | 0  |

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

| Date | <u>Chief J. Dnst</u> |             |             | <u>Wells</u> |             |            | <u>Wells Dwnstrm</u> |             |            | <u>Rocky Reach</u> |             |           | <u>Rocky R. Tlwr</u> |             |             | #  |           |     |     |    |
|------|----------------------|-------------|-------------|--------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|-----------|----------------------|-------------|-------------|----|-----------|-----|-----|----|
|      | <u>24 h</u>          | <u>12 h</u> | <u>#</u>    | <u>24 h</u>  | <u>12 h</u> | <u>#</u>   | <u>24 h</u>          | <u>12 h</u> | <u>#</u>   | <u>24 h</u>        | <u>12 h</u> | <u>#</u>  | <u>24 h</u>          | <u>12 h</u> | <u>#</u>    |    |           |     |     |    |
|      | <u>Avg</u>           | <u>Avg</u>  | <u>High</u> | <u>hr</u>    | <u>Avg</u>  | <u>Avg</u> | <u>High</u>          | <u>hr</u>   | <u>Avg</u> | <u>Avg</u>         | <u>High</u> | <u>hr</u> | <u>Avg</u>           | <u>Avg</u>  | <u>High</u> |    | <u>hr</u> |     |     |    |
| 4/4  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 105        | 105                | 105         | 24        | 105                  | 105         | 105         | 24 | 105       | 105 | 105 | 24 |
| 4/5  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 105        | 105                | 106         | 24        | 105                  | 105         | 105         | 24 | 105       | 105 | 106 | 24 |
| 4/6  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 105        | 105                | 106         | 24        | 105                  | 105         | 106         | 24 | 105       | 105 | 106 | 24 |
| 4/7  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 104        | 105                | 105         | 24        | 105                  | 105         | 105         | 24 | 105       | 105 | 105 | 24 |
| 4/8  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 104        | 105                | 105         | 24        | 105                  | 105         | 105         | 24 | 105       | 105 | 105 | 24 |
| 4/9  | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 104        | 105                | 105         | 24        | 105                  | 105         | 105         | 24 | 105       | 105 | 105 | 24 |
| 4/10 | ---                  | ---         | ---         | 0            | 104         | 104        | 104                  | 24          | 104        | 104                | 105         | 24        | 104                  | 104         | 105         | 24 | 104       | 104 | 105 | 24 |
| 4/11 | ---                  | ---         | ---         | 0            | 104         | 105        | 105                  | 24          | 104        | 105                | 105         | 24        | 104                  | 104         | 104         | 24 | 104       | 104 | 104 | 24 |
| 4/12 | ---                  | ---         | ---         | 0            | 105         | 105        | 106                  | 24          | 105        | 107                | 107         | 24        | 104                  | 105         | 105         | 24 | 104       | 105 | 105 | 24 |
| 4/13 | ---                  | ---         | ---         | 0            | 106         | 107        | 108                  | 24          | 107        | 108                | 108         | 24        | 106                  | 106         | 107         | 23 | 106       | 107 | 107 | 23 |
| 4/14 | 107                  | 107         | 108         | 20           | 107         | 107        | 108                  | 24          | 108        | 109                | 109         | 24        | 107                  | 107         | 108         | 24 | 107       | 108 | 108 | 24 |
| 4/15 | 106                  | 107         | 107         | 24           | 105         | 105        | 106                  | 24          | 106        | 107                | 107         | 24        | 107                  | 107         | 107         | 24 | 107       | 107 | 108 | 24 |
| 4/16 | 105                  | 105         | 105         | 7            | 104         | 104        | 105                  | 22          | 105        | 106                | 107         | 22        | 106                  | 106         | 106         | 24 | 106       | 106 | 107 | 24 |
| 4/17 | ---                  | ---         | ---         | 0            | 105         | 106        | 107                  | 19          | 107        | 107                | 108         | 19        | 106                  | 107         | 107         | 24 | 106       | 107 | 107 | 24 |

### Total Dissolved Gas Saturation at Mid Columbia River Sites

| Date | <u>Rock Island</u> |             |             | <u>Rock I. Tlwr</u> |             |            | <u>Wanapum</u> |             |            | <u>Wanapum Tlwr</u> |             |           | <u>Priest Rapids</u> |             |             | # |           |     |     |   |
|------|--------------------|-------------|-------------|---------------------|-------------|------------|----------------|-------------|------------|---------------------|-------------|-----------|----------------------|-------------|-------------|---|-----------|-----|-----|---|
|      | <u>24 h</u>        | <u>12 h</u> | <u>#</u>    | <u>24 h</u>         | <u>12 h</u> | <u>#</u>   | <u>24 h</u>    | <u>12 h</u> | <u>#</u>   | <u>24 h</u>         | <u>12 h</u> | <u>#</u>  | <u>24 h</u>          | <u>12 h</u> | <u>#</u>    |   |           |     |     |   |
|      | <u>Avg</u>         | <u>Avg</u>  | <u>High</u> | <u>hr</u>           | <u>Avg</u>  | <u>Avg</u> | <u>High</u>    | <u>hr</u>   | <u>Avg</u> | <u>Avg</u>          | <u>High</u> | <u>hr</u> | <u>Avg</u>           | <u>Avg</u>  | <u>High</u> |   | <u>hr</u> |     |     |   |
| 4/4  | 101                | 104         | 105         | 24                  | 101         | 104        | 105            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/5  | 105                | 105         | 106         | 24                  | 105         | 105        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/6  | 105                | 106         | 107         | 24                  | 105         | 106        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/7  | 105                | 105         | 105         | 24                  | 105         | 105        | 105            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/8  | 105                | 105         | 106         | 24                  | 105         | 105        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/9  | 105                | 105         | 106         | 24                  | 105         | 106        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/10 | 104                | 105         | 105         | 24                  | 105         | 105        | 105            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/11 | 104                | 105         | 105         | 24                  | 104         | 105        | 105            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/12 | 105                | 105         | 106         | 24                  | 105         | 105        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/13 | 106                | 107         | 108         | 23                  | 107         | 107        | 108            | 23          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/14 | 107                | 107         | 108         | 24                  | 107         | 107        | 108            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/15 | 106                | 107         | 107         | 24                  | 107         | 107        | 107            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/16 | 106                | 106         | 106         | 24                  | 106         | 106        | 106            | 24          | ---        | ---                 | ---         | 0         | ---                  | ---         | ---         | 0 | ---       | --- | --- | 0 |
| 4/17 | 106                | 107         | 107         | 24                  | 110         | 112        | 115            | 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> | High |   | <u>24 h</u>  | <u>12 h</u> | High |    | <u>24 h</u>     | <u>12 h</u> | High |    | <u>24 h</u>        | <u>12 h</u> | High |    | <u>24 h</u>    | <u>12 h</u> | High |    |
|      | Avg                   | Avg         |      |   | Avg          | Avg         |      |    | Avg             | Avg         |      |    | Avg                | Avg         |      |    | Avg            | Avg         |      |    |
| 4/4  | ---                   | ---         | ---  | 0 | 104          | 104         | 105  | 24 | 108             | 110         | 110  | 24 | 105                | 106         | 107  | 24 | 102            | 103         | 103  | 24 |
| 4/5  | ---                   | ---         | ---  | 0 | 103          | 104         | 105  | 24 | 105             | 106         | 106  | 24 | 103                | 104         | 105  | 24 | 102            | 103         | 104  | 24 |
| 4/6  | ---                   | ---         | ---  | 0 | 104          | 105         | 105  | 24 | 106             | 106         | 107  | 24 | 103                | 104         | 105  | 24 | 102            | 103         | 104  | 24 |
| 4/7  | ---                   | ---         | ---  | 0 | 103          | 103         | 103  | 24 | 106             | 107         | 108  | 24 | 104                | 105         | 106  | 24 | 102            | 103         | 104  | 24 |
| 4/8  | ---                   | ---         | ---  | 0 | 103          | 104         | 105  | 24 | 107             | 108         | 108  | 24 | 105                | 106         | 107  | 24 | 102            | 104         | 105  | 24 |
| 4/9  | ---                   | ---         | ---  | 0 | 104          | 105         | 105  | 24 | 107             | 107         | 108  | 24 | 104                | 105         | 106  | 24 | 102            | 103         | 104  | 24 |
| 4/10 | ---                   | ---         | ---  | 0 | 104          | 105         | 105  | 24 | 106             | 107         | 107  | 24 | 104                | 104         | 105  | 24 | 102            | 102         | 103  | 24 |
| 4/11 | ---                   | ---         | ---  | 0 | 104          | 105         | 106  | 24 | 104             | 104         | 106  | 9  | 100                | 102         | 103  | 24 | 102            | 103         | 105  | 24 |
| 4/12 | ---                   | ---         | ---  | 0 | 105          | 106         | 106  | 24 | 95              | 95          | 96   | 12 | 98                 | 99          | 100  | 24 | 102            | 104         | 105  | 24 |
| 4/13 | ---                   | ---         | ---  | 0 | 106          | 107         | 108  | 24 | 97              | 97          | 98   | 24 | 99                 | 101         | 102  | 24 | 102            | 103         | 105  | 24 |
| 4/14 | ---                   | ---         | ---  | 0 | 106          | 106         | 107  | 24 | 97              | 98          | 98   | 24 | 99                 | 99          | 99   | 24 | 101            | 101         | 101  | 24 |
| 4/15 | ---                   | ---         | ---  | 0 | 104          | 104         | 105  | 24 | 96              | 96          | 97   | 24 | 98                 | 99          | 99   | 24 | 101            | 102         | 102  | 24 |
| 4/16 | ---                   | ---         | ---  | 0 | 103          | 103         | 104  | 24 | 95              | 95          | 96   | 21 | 98                 | 99          | 99   | 24 | 101            | 102         | 103  | 24 |
| 4/17 | ---                   | ---         | ---  | 0 | 104          | 105         | 106  | 24 | 96              | 97          | 97   | 24 | 99                 | 101         | 102  | 24 | 102            | 103         | 104  | 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> | High |    | <u>24 h</u>          | <u>12 h</u> | High |    | <u>24 h</u>            | <u>12 h</u> | High |    | <u>24 h</u>         | <u>12 h</u> | High |    | <u>24 h</u>          | <u>12 h</u> | High |    |
|      | Avg                    | Avg         |      |    | Avg                  | Avg         |      |    | Avg                    | Avg         |      |    | Avg                 | Avg         |      |    | Avg                  | Avg         |      |    |
| 4/4  | 104                    | 105         | 106  | 24 | 102                  | 102         | 103  | 24 | 111                    | 112         | 112  | 24 | 102                 | 103         | 103  | 24 | 111                  | 112         | 112  | 24 |
| 4/5  | 103                    | 105         | 106  | 24 | 102                  | 102         | 102  | 24 | 112                    | 112         | 112  | 24 | 102                 | 102         | 102  | 24 | 107                  | 107         | 109  | 24 |
| 4/6  | 103                    | 105         | 106  | 24 | 102                  | 102         | 102  | 24 | 111                    | 111         | 112  | 24 | 102                 | 102         | 103  | 24 | 107                  | 107         | 108  | 24 |
| 4/7  | 103                    | 105         | 106  | 24 | 102                  | 102         | 103  | 24 | 112                    | 112         | 112  | 24 | 102                 | 103         | 103  | 24 | 109                  | 109         | 110  | 24 |
| 4/8  | 104                    | 106         | 108  | 24 | 103                  | 103         | 103  | 23 | 112                    | 112         | 112  | 24 | 105                 | 106         | 107  | 23 | 110                  | 110         | 111  | 23 |
| 4/9  | 103                    | 104         | 105  | 24 | 102                  | 102         | 103  | 13 | 111                    | 112         | 113  | 24 | 107                 | 108         | 108  | 24 | 113                  | 113         | 114  | 24 |
| 4/10 | 103                    | 104         | 105  | 24 | 102                  | 102         | 102  | 24 | 111                    | 112         | 112  | 24 | 107                 | 107         | 108  | 24 | 113                  | 113         | 113  | 24 |
| 4/11 | 103                    | 106         | 108  | 24 | 101                  | 101         | 101  | 24 | 111                    | 112         | 113  | 24 | 107                 | 108         | 110  | 24 | 110                  | 111         | 111  | 24 |
| 4/12 | 102                    | 105         | 107  | 24 | 102                  | 103         | 104  | 24 | 111                    | 111         | 112  | 24 | 108                 | 108         | 109  | 24 | 111                  | 112         | 112  | 24 |
| 4/13 | 102                    | 105         | 107  | 24 | 103                  | 104         | 104  | 24 | 111                    | 112         | 113  | 24 | 110                 | 111         | 113  | 24 | 109                  | 110         | 111  | 24 |
| 4/14 | 99                     | 100         | 101  | 24 | 104                  | 104         | 105  | 24 | 111                    | 112         | 113  | 24 | 111                 | 111         | 111  | 24 | 110                  | 111         | 111  | 24 |
| 4/15 | 99                     | 100         | 101  | 24 | 103                  | 104         | 104  | 24 | 110                    | 111         | 113  | 24 | 109                 | 109         | 110  | 24 | 110                  | 111         | 114  | 24 |
| 4/16 | 100                    | 101         | 102  | 24 | 101                  | 102         | 103  | 24 | 110                    | 110         | 111  | 24 | 107                 | 108         | 108  | 24 | 110                  | 111         | 111  | 24 |
| 4/17 | 101                    | 104         | 105  | 24 | 100                  | 100         | 100  | 24 | 110                    | 110         | 111  | 24 | 107                 | 108         | 108  | 24 | 114                  | 115         | 116  | 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> | High |    | <u>24 h</u>         | <u>12 h</u> | High |    | <u>24 h</u>       | <u>12 h</u> | High |    | <u>24 h</u>            | <u>12 h</u> | High |    | <u>24 h</u>          | <u>12 h</u> | High |   |
|      | Avg               | Avg         |      |    | Avg                 | Avg         |      |    | Avg               | Avg         |      |    | Avg                    | Avg         |      |    | Avg                  | Avg         |      |   |
| 4/4  | 102               | 102         | 102  | 24 | 117                 | 118         | 118  | 24 | 103               | 103         | 103  | 24 | 114                    | 114         | 115  | 24 | ---                  | ---         | ---  | 0 |
| 4/5  | 102               | 102         | 102  | 24 | 117                 | 117         | 118  | 24 | 103               | 103         | 104  | 24 | 115                    | 115         | 116  | 24 | ---                  | ---         | ---  | 0 |
| 4/6  | 104               | 105         | 106  | 24 | 117                 | 117         | 118  | 24 | 107               | 108         | 109  | 24 | 115                    | 116         | 117  | 24 | ---                  | ---         | ---  | 0 |
| 4/7  | 106               | 106         | 107  | 24 | 116                 | 116         | 118  | 24 | 110               | 110         | 111  | 24 | 112                    | 114         | 116  | 24 | ---                  | ---         | ---  | 0 |
| 4/8  | 106               | 106         | 106  | 24 | 116                 | 116         | 117  | 24 | 111               | 112         | 113  | 24 | 114                    | 116         | 117  | 24 | ---                  | ---         | ---  | 0 |
| 4/9  | 105               | 106         | 106  | 24 | 117                 | 117         | 118  | 24 | 113               | 113         | 113  | 24 | 113                    | 115         | 117  | 24 | ---                  | ---         | ---  | 0 |
| 4/10 | 105               | 106         | 106  | 24 | 116                 | 116         | 118  | 24 | 113               | 114         | 114  | 24 | 113                    | 114         | 116  | 24 | ---                  | ---         | ---  | 0 |
| 4/11 | 106               | 107         | 107  | 24 | 116                 | 117         | 118  | 24 | 114               | 114         | 115  | 24 | 114                    | 115         | 115  | 24 | ---                  | ---         | ---  | 0 |
| 4/12 | 109               | 110         | 111  | 24 | 116                 | 117         | 118  | 24 | 115               | 116         | 116  | 24 | 114                    | 114         | 115  | 24 | ---                  | ---         | ---  | 0 |
| 4/13 | 111               | 112         | 113  | 24 | 118                 | 119         | 119  | 24 | 117               | 118         | 118  | 24 | 114                    | 115         | 115  | 24 | ---                  | ---         | ---  | 0 |
| 4/14 | 112               | 113         | 113  | 24 | 118                 | 119         | 119  | 24 | 118               | 118         | 119  | 24 | 115                    | 116         | 117  | 24 | ---                  | ---         | ---  | 0 |
| 4/15 | 110               | 111         | 112  | 24 | 119                 | 119         | 119  | 24 | 116               | 116         | 117  | 24 | 115                    | 116         | 116  | 24 | ---                  | ---         | ---  | 0 |
| 4/16 | 107               | 107         | 109  | 24 | 118                 | 118         | 118  | 24 | 112               | 113         | 114  | 24 | 115                    | 116         | 116  | 24 | ---                  | ---         | ---  | 0 |
| 4/17 | 107               | 108         | 109  | 24 | 118                 | 118         | 119  | 24 | 112               | 113         | 113  | 24 | 115                    | 116         | 116  | 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> | <u>24h</u> | <u>AVG</u> | <u>High</u> | <u>#</u> |    |
|      | Avg                | Avg         | hr       | Avg                | Avg         | hr       | Avg             | Avg        | hr       | Avg                  | Avg        | hr       | Avg               | Avg        | hr       | Avg        | AVG        | High        | hr       |    |
| 4/4  | 105                | 105         | 105      | 24                 | 104         | 104      | 104             | 24         | 104      | 104                  | 104        | 24       | 107               | 109        | 112      | 24         | 106        | 107         | 108      | 24 |
| 4/5  | 104                | 104         | 105      | 24                 | 104         | 104      | 104             | 24         | 104      | 104                  | 104        | 24       | 102               | 103        | 104      | 24         | 105        | 106         | 107      | 24 |
| 4/6  | 105                | 106         | 106      | 24                 | 104         | 105      | 105             | 24         | 104      | 104                  | 104        | 24       | 103               | 104        | 104      | 24         | 104        | 104         | 105      | 24 |
| 4/7  | 105                | 105         | 106      | 24                 | 104         | 105      | 105             | 24         | 103      | 104                  | 104        | 24       | 103               | 103        | 103      | 24         | 103        | 103         | 104      | 24 |
| 4/8  | 105                | 105         | 106      | 24                 | 104         | 105      | 105             | 24         | 104      | 104                  | 105        | 24       | 103               | 103        | 103      | 24         | 104        | 104         | 105      | 24 |
| 4/9  | 105                | 106         | 106      | 24                 | 107         | 110      | 113             | 24         | 104      | 104                  | 104        | 24       | 103               | 104        | 104      | 24         | 104        | 104         | 104      | 24 |
| 4/10 | 105                | 105         | 105      | 24                 | 115         | 115      | 116             | 24         | 103      | 103                  | 104        | 24       | 111               | 116        | 117      | 24         | 103        | 103         | 104      | 24 |
| 4/11 | 104                | 105         | 106      | 24                 | 115         | 115      | 115             | 24         | 103      | 103                  | 104        | 24       | 111               | 118        | 119      | 24         | 106        | 108         | 112      | 24 |
| 4/12 | 107                | 108         | 109      | 24                 | 116         | 116      | 116             | 24         | 105      | 106                  | 107        | 23       | 112               | 118        | 119      | 23         | 112        | 115         | 119      | 24 |
| 4/13 | 108                | 109         | 109      | 24                 | 116         | 117      | 117             | 24         | 106      | 106                  | 107        | 24       | 111               | 116        | 118      | 24         | 112        | 116         | 119      | 24 |
| 4/14 | 109                | 109         | 110      | 24                 | 115         | 115      | 116             | 24         | 105      | 105                  | 106        | 24       | 111               | 116        | 118      | 24         | 112        | 115         | 116      | 24 |
| 4/15 | 107                | 107         | 108      | 24                 | 114         | 115      | 115             | 24         | 104      | 104                  | 105        | 24       | 111               | 118        | 119      | 24         | 106        | 107         | 108      | 24 |
| 4/16 | 105                | 105         | 105      | 24                 | 114         | 114      | 115             | 24         | 103      | 104                  | 104        | 24       | 111               | 118        | 119      | 24         | 108        | 112         | 115      | 24 |
| 4/17 | 106                | 106         | 106      | 24                 | 115         | 115      | 115             | 24         | 105      | 106                  | 106        | 23       | 112               | 117        | 119      | 23         | 110        | 113         | 115      | 24 |

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

| Date | <u>The Dalles Dnst</u> |             |          | <u>Bonneville</u> |             |          | <u>Warrendale</u> |            |          | <u>CamasWashougal</u> |            |          | <u>Cascade Island</u> |            |          |            |            |             |          |    |
|------|------------------------|-------------|----------|-------------------|-------------|----------|-------------------|------------|----------|-----------------------|------------|----------|-----------------------|------------|----------|------------|------------|-------------|----------|----|
|      | <u>24 h</u>            | <u>12 h</u> | <u>#</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> | <u>24h</u> | <u>12h</u> | <u>High</u> | <u>#</u> |    |
|      | Avg                    | Avg         | hr       | Avg               | Avg         | hr       | Avg               | Avg        | hr       | Avg                   | Avg        | hr       | Avg                   | Avg        | hr       | Avg        | Avg        | High        | hr       |    |
| 4/4  | 106                    | 107         | 107      | 24                | 106         | 107      | 107               | 24         | 108      | 109                   | 109        | 24       | 107                   | 108        | 108      | 24         | 115        | 117         | 119      | 24 |
| 4/5  | 106                    | 106         | 107      | 24                | 106         | 106      | 107               | 24         | 110      | 111                   | 111        | 24       | 108                   | 110        | 110      | 24         | 114        | 116         | 119      | 24 |
| 4/6  | 105                    | 106         | 107      | 24                | 106         | 107      | 107               | 24         | 110      | 110                   | 111        | 24       | 109                   | 109        | 110      | 24         | 115        | 117         | 121      | 24 |
| 4/7  | 103                    | 104         | 104      | 24                | 106         | 106      | 106               | 24         | 109      | 109                   | 110        | 24       | 108                   | 108        | 109      | 24         | 115        | 117         | 119      | 24 |
| 4/8  | 104                    | 104         | 104      | 24                | 106         | 106      | 106               | 24         | 109      | 110                   | 111        | 24       | 109                   | 110        | 111      | 24         | 116        | 117         | 121      | 24 |
| 4/9  | 104                    | 104         | 105      | 16                | 105         | 105      | 106               | 24         | 107      | 108                   | 108        | 24       | 109                   | 109        | 110      | 24         | 115        | 116         | 118      | 24 |
| 4/10 | 109                    | 111         | 112      | 24                | 103         | 104      | 104               | 24         | 112      | 114                   | 116        | 16       | 107                   | 109        | 113      | 24         | 117        | 117         | 118      | 14 |
| 4/11 | 112                    | 114         | 115      | 24                | 104         | 104      | 105               | 24         | 116      | 117                   | 117        | 24       | 115                   | 117        | 118      | 24         | 117        | 117         | 117      | 24 |
| 4/12 | 115                    | 116         | 117      | 24                | 107         | 109      | 111               | 24         | 115      | 116                   | 117        | 24       | 112                   | 113        | 116      | 24         | 117        | 117         | 118      | 24 |
| 4/13 | 117                    | 118         | 119      | 24                | 113         | 114      | 115               | 24         | 116      | 117                   | 118        | 24       | 114                   | 116        | 117      | 24         | 117        | 117         | 118      | 24 |
| 4/14 | 114                    | 116         | 117      | 24                | 112         | 113      | 113               | 24         | 116      | 116                   | 117        | 24       | 114                   | 115        | 116      | 24         | 117        | 117         | 118      | 24 |
| 4/15 | 112                    | 112         | 113      | 24                | 109         | 109      | 110               | 24         | 115      | 115                   | 116        | 24       | 113                   | 114        | 114      | 24         | 117        | 117         | 118      | 24 |
| 4/16 | 113                    | 114         | 117      | 24                | 107         | 108      | 108               | 24         | 113      | 114                   | 115        | 24       | 113                   | 114        | 115      | 24         | 117        | 117         | 117      | 24 |
| 4/17 | 114                    | 116         | 117      | 24                | 108         | 109      | 110               | 24         | 115      | 115                   | 116        | 24       | 113                   | 114        | 115      | 24         | 117        | 117         | 117      | 24 |

## Two-Week Summary of Passage Indices

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

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

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

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

|                 |   | <b>COMBINED YEARLING CHINOOK</b> |               |               |               |                |                |                |                |                |                |                |
|-----------------|---|----------------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Date            |   | WTB<br>(Coll)                    | IMN<br>(Coll) | GRN<br>(Coll) | LEW<br>(Coll) | LGR<br>(INDEX) | LGS<br>(INDEX) | LMN<br>(INDEX) | RIS<br>(INDEX) | MCN<br>(INDEX) | JDA<br>(INDEX) | BO2<br>(INDEX) |
| 04/04/2008      | * | 405                              | 4,657         | 32            | 17            | 810            | 0              | 93             | 1              | ---            | 422            | 106            |
| 04/05/2008      | * | 908                              | 4,192         | 132           | 1             | 428            | 0              | 22             | 0              | 270            | 596            | 62             |
| 04/06/2008      | * | 741                              | 4,709         | 522           | 1             | 785            | 0              | 25             | 0              | ---            | 285            | 65             |
| 04/07/2008      | * | 711                              | 4,098         | 212           | 2             | 1,254          | 0              | 17             | 1              | 56,763         | 455            | 150            |
| 04/08/2008      | * | 311                              | 6,740         | 468           | 10            | 1,404          | 20             | 23             | 7              | ---            | 605            | 151            |
| 04/09/2008      | * | 478                              | 11,986        | 276           | 4             | 1,798          | 0              | 38             | 2              | 18,804         | 2,775          | 119            |
| 04/10/2008      | * | 422                              | 4,808         | 462           | 5             | 1,857          | 62             | 34             | 3              | ---            | 5,356          | 160            |
| 04/11/2008      | * | 520                              | ---           | 343           | 11            | 2,250          | 0              | 272            | 0              | 4,855          | 2,929          | 532            |
| 04/12/2008      | * | 432                              | ---           | 176           | 59            | 1,786          | 0              | 1,329          | 2              | ---            | 2,531          | 1,228          |
| 04/13/2008      | * | 384                              | ---           | 256           | 19            | 1,733          | 0              | 1,976          | 2              | 5,155          | 2,418          | 5,590          |
| 04/14/2008      | * | 1,023                            | 17,472        | 670           | 15            | 1,464          | 0              | 1,326          | 4              | ---            | 1,678          | 17,371         |
| 04/15/2008      | * | 3,236                            | ---           | 193           | 229           | 7,178          | 180            | 1,020          | 5              | 1,922          | 3,342          | 14,084         |
| 04/16/2008      | * | 3,538                            | ---           | 559           | 82            | 8,792          | 63             | 4,498          | 10             | ---            | 3,842          | 13,262         |
| 04/17/2008      | * | 3,623                            | ---           | 457           | 189           | 10,619         | 0              | 7,350          | 8              | 4,907          | 3,526          | 21,532         |
| 04/18/2008      |   | ---                              | ---           | ---           | ---           | ---            | ---            | ---            | ---            | ---            | ---            | ---            |
| <hr/>           |   |                                  |               |               |               |                |                |                |                |                |                |                |
| <b>Total:</b>   |   | <b>16,732</b>                    | <b>58,662</b> | <b>4,758</b>  | <b>644</b>    | <b>42,158</b>  | <b>325</b>     | <b>18,023</b>  | <b>45</b>      | <b>92,676</b>  | <b>30,760</b>  | <b>74,412</b>  |
| <b># Days:</b>  |   | <b>14</b>                        | <b>8</b>      | <b>14</b>     | <b>14</b>     | <b>14</b>      | <b>14</b>      | <b>14</b>      | <b>14</b>      | <b>7</b>       | <b>14</b>      | <b>14</b>      |
| <b>Average:</b> |   | <b>1,195</b>                     | <b>7,333</b>  | <b>340</b>    | <b>46</b>     | <b>3,011</b>   | <b>23</b>      | <b>1,287</b>   | <b>3</b>       | <b>13,239</b>  | <b>2,197</b>   | <b>5,315</b>   |
| <b>YTD</b>      |   | <b>33,534</b>                    | <b>63,149</b> | <b>6,977</b>  | <b>713</b>    | <b>43,558</b>  | <b>325</b>     | <b>18,325</b>  | <b>45</b>      | <b>92,756</b>  | <b>31,905</b>  | <b>87,320</b>  |

|                 |   | <b>COMBINED SUBYEARLING CHINOOK</b> |               |               |               |                |                |                |                |                |                |                  |
|-----------------|---|-------------------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Date            |   | WTB<br>(Coll)                       | IMN<br>(Coll) | GRN<br>(Coll) | LEW<br>(Coll) | LGR<br>(INDEX) | LGS<br>(INDEX) | LMN<br>(INDEX) | RIS<br>(INDEX) | MCN<br>(INDEX) | JDA<br>(INDEX) | BO2<br>(INDEX)   |
| 04/04/2008      | * | 0                                   | 0             | 0             | 1             | 0              | 0              | 0              | 20             | ---            | 0              | 548              |
| 04/05/2008      | * | 0                                   | 0             | 0             | 0             | 0              | 0              | 0              | 23             | 10             | 0              | 967              |
| 04/06/2008      | * | 0                                   | 0             | 0             | 2             | 0              | 0              | 0              | 14             | ---            | 0              | 411              |
| 04/07/2008      | * | 0                                   | 0             | 0             | 0             | 0              | 0              | 0              | 10             | 0              | 0              | 770              |
| 04/08/2008      | * | 0                                   | 0             | 0             | 0             | 0              | 0              | 0              | 12             | ---            | 0              | 673              |
| 04/09/2008      | * | 0                                   | 0             | 0             | 1             | 0              | 0              | 0              | 25             | 0              | 0              | 1,013            |
| 04/10/2008      | * | 0                                   | 0             | 0             | 0             | 0              | 0              | 0              | 13             | ---            | 0              | 993              |
| 04/11/2008      | * | 0                                   | ---           | 0             | 1             | 36             | 0              | 0              | 83             | 0              | 0              | 1,631            |
| 04/12/2008      | * | 0                                   | ---           | 0             | 4             | 0              | 0              | 0              | 28             | ---            | 0              | 241,894          |
| 04/13/2008      | * | 0                                   | ---           | 0             | 3             | 0              | 0              | 0              | 25             | 0              | 0              | 113,061          |
| 04/14/2008      | * | 0                                   | 0             | 0             | 0             | 0              | 0              | 0              | 19             | ---            | 0              | 39,550           |
| 04/15/2008      | * | 0                                   | ---           | 0             | 0             | 76             | 0              | 0              | 23             | 0              | 0              | 10,419           |
| 04/16/2008      | * | 0                                   | ---           | 0             | 0             | 15             | 0              | 0              | 14             | ---            | 0              | 5,914            |
| 04/17/2008      | * | 0                                   | ---           | 0             | 0             | 0              | 0              | 0              | 28             | 0              | 0              | 4,277            |
| 04/18/2008      |   | ---                                 | ---           | ---           | ---           | ---            | ---            | ---            | ---            | ---            | ---            | ---              |
| <hr/>           |   |                                     |               |               |               |                |                |                |                |                |                |                  |
| <b>Total:</b>   |   | <b>0</b>                            | <b>0</b>      | <b>0</b>      | <b>12</b>     | <b>127</b>     | <b>0</b>       | <b>0</b>       | <b>337</b>     | <b>10</b>      | <b>0</b>       | <b>422,121</b>   |
| <b># Days:</b>  |   | <b>14</b>                           | <b>8</b>      | <b>14</b>     | <b>14</b>     | <b>14</b>      | <b>14</b>      | <b>14</b>      | <b>14</b>      | <b>7</b>       | <b>14</b>      | <b>14</b>        |
| <b>Average:</b> |   | <b>0</b>                            | <b>0</b>      | <b>0</b>      | <b>1</b>      | <b>9</b>       | <b>0</b>       | <b>0</b>       | <b>24</b>      | <b>1</b>       | <b>0</b>       | <b>30,152</b>    |
| <b>YTD</b>      |   | <b>0</b>                            | <b>0</b>      | <b>0</b>      | <b>28</b>     | <b>150</b>     | <b>0</b>       | <b>0</b>       | <b>337</b>     | <b>10</b>      | <b>0</b>       | <b>1,299,704</b> |



## Two-Week Summary of Passage Indices

|                 |   | <b>COMBINED COHO</b> |          |           |           |            |           |           |           |            |            |              |
|-----------------|---|----------------------|----------|-----------|-----------|------------|-----------|-----------|-----------|------------|------------|--------------|
|                 |   | WTB                  | IMN      | GRN       | LEW       | LGR        | LGS       | LMN       | RIS       | MCN        | JDA        | BO2          |
| Date            | * | (Coll)               | (Coll)   | (Coll)    | (Coll)    | (INDEX)    | (INDEX)   | (INDEX)   | (INDEX)   | (INDEX)    | (INDEX)    | (INDEX)      |
| 04/04/2008      | * | 0                    | 0        | 0         | 0         | 18         | 0         | 0         | 0         | ---        | 0          | 37           |
| 04/05/2008      | * | 0                    | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 30         | 11         | 30           |
| 04/06/2008      | * | 0                    | 0        | 0         | 0         | 0          | 0         | 0         | 0         | ---        | 0          | 27           |
| 04/07/2008      | * | 0                    | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 170        | 5          | 66           |
| 04/08/2008      | * | 0                    | 0        | 0         | 0         | 18         | 0         | 0         | 0         | ---        | 0          | 119          |
| 04/09/2008      | * | 0                    | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 200        | 10         | 172          |
| 04/10/2008      | * | 0                    | 0        | 0         | 0         | 18         | 0         | 0         | 1         | ---        | 17         | 264          |
| 04/11/2008      | * | 0                    | ---      | 0         | 0         | 0          | 0         | 0         | 0         | 34         | 10         | 360          |
| 04/12/2008      | * | 0                    | ---      | 0         | 0         | 0          | 0         | 0         | 0         | ---        | 7          | 629          |
| 04/13/2008      | * | 0                    | ---      | 0         | 0         | 0          | 0         | 0         | 0         | 34         | 28         | 136          |
| 04/14/2008      | * | 0                    | 0        | 0         | 0         | 0          | 0         | 0         | 1         | ---        | 7          | 392          |
| 04/15/2008      | * | 0                    | ---      | 0         | 10        | 30         | 1         | 0         | 1         | 51         | 7          | 441          |
| 04/16/2008      | * | 0                    | ---      | 0         | 0         | 15         | 0         | 0         | 1         | ---        | 7          | 388          |
| 04/17/2008      | * | 0                    | ---      | 0         | 3         | 30         | 0         | 0         | 3         | 34         | 9          | 1,032        |
| 04/18/2008      |   | ---                  | ---      | ---       | ---       | ---        | ---       | ---       | ---       | ---        | ---        | ---          |
| <hr/>           |   |                      |          |           |           |            |           |           |           |            |            |              |
| <b>Total:</b>   |   | <b>0</b>             | <b>0</b> | <b>0</b>  | <b>13</b> | <b>129</b> | <b>1</b>  | <b>0</b>  | <b>7</b>  | <b>553</b> | <b>118</b> | <b>4,093</b> |
| <b># Days:</b>  |   | <b>14</b>            | <b>8</b> | <b>14</b> | <b>14</b> | <b>14</b>  | <b>14</b> | <b>14</b> | <b>14</b> | <b>7</b>   | <b>14</b>  | <b>14</b>    |
| <b>Average:</b> |   | <b>0</b>             | <b>0</b> | <b>0</b>  | <b>1</b>  | <b>9</b>   | <b>0</b>  | <b>0</b>  | <b>1</b>  | <b>79</b>  | <b>8</b>   | <b>292</b>   |
| <b>YTD</b>      |   | <b>0</b>             | <b>0</b> | <b>0</b>  | <b>15</b> | <b>171</b> | <b>1</b>  | <b>0</b>  | <b>7</b>  | <b>563</b> | <b>130</b> | <b>4,576</b> |

|                 |   | <b>COMBINED STEELHEAD</b> |              |            |            |               |            |            |           |              |              |              |
|-----------------|---|---------------------------|--------------|------------|------------|---------------|------------|------------|-----------|--------------|--------------|--------------|
|                 |   | WTB                       | IMN          | GRN        | LEW        | LGR           | LGS        | LMN        | RIS       | MCN          | JDA          | BO2          |
| Date            | * | (Coll)                    | (Coll)       | (Coll)     | (Coll)     | (INDEX)       | (INDEX)    | (INDEX)    | (INDEX)   | (INDEX)      | (INDEX)      | (INDEX)      |
| 04/04/2008      | * | 40                        | 13           | 0          | 8          | 522           | 0          | 17         | 0         | ---          | 80           | 12           |
| 04/05/2008      | * | 73                        | 34           | 1          | 12         | 428           | 0          | 8          | 0         | 70           | 16           | 3            |
| 04/06/2008      | * | 83                        | 49           | 0          | 33         | 621           | 0          | 0          | 0         | ---          | 25           | 16           |
| 04/07/2008      | * | 93                        | 20           | 0          | 11         | 598           | 0          | 0          | 1         | 100          | 30           | 150          |
| 04/08/2008      | * | 83                        | 22           | 1          | 12         | 486           | 108        | 3          | 0         | ---          | 35           | 365          |
| 04/09/2008      | * | 68                        | 45           | 0          | 11         | 590           | 0          | 12         | 1         | 0            | 30           | 311          |
| 04/10/2008      | * | 156                       | 180          | 1          | 30         | 679           | 161        | 25         | 0         | ---          | 87           | 433          |
| 04/11/2008      | * | 144                       | ---          | 6          | 7          | 1,053         | 0          | 21         | 0         | 69           | 79           | 172          |
| 04/12/2008      | * | 98                        | ---          | 3          | 15         | 747           | 0          | 59         | 0         | ---          | 36           | 30           |
| 04/13/2008      | * | 70                        | ---          | 15         | 16         | 748           | 0          | 18         | 0         | 34           | 71           | 136          |
| 04/14/2008      | * | 101                       | 4,436        | 102        | 39         | 894           | 0          | 25         | 4         | ---          | 55           | 0            |
| 04/15/2008      | * | 91                        | ---          | 159        | 155        | 1,405         | 549        | 28         | 7         | 104          | 75           | 136          |
| 04/16/2008      | * | 45                        | ---          | 514        | 224        | 2,589         | 80         | 141        | 14        | ---          | 169          | 30           |
| 04/17/2008      | * | 79                        | ---          | 111        | 135        | 15,779        | 0          | 471        | 16        | 760          | 662          | 147          |
| 04/18/2008      |   | ---                       | ---          | ---        | ---        | ---           | ---        | ---        | ---       | ---          | ---          | ---          |
| <hr/>           |   |                           |              |            |            |               |            |            |           |              |              |              |
| <b>Total:</b>   |   | <b>1,224</b>              | <b>4,799</b> | <b>913</b> | <b>708</b> | <b>27,139</b> | <b>898</b> | <b>828</b> | <b>43</b> | <b>1,137</b> | <b>1,450</b> | <b>1,941</b> |
| <b># Days:</b>  |   | <b>14</b>                 | <b>8</b>     | <b>14</b>  | <b>14</b>  | <b>14</b>     | <b>14</b>  | <b>14</b>  | <b>14</b> | <b>7</b>     | <b>14</b>    | <b>14</b>    |
| <b>Average:</b> |   | <b>87</b>                 | <b>600</b>   | <b>65</b>  | <b>51</b>  | <b>1,939</b>  | <b>64</b>  | <b>59</b>  | <b>3</b>  | <b>162</b>   | <b>104</b>   | <b>139</b>   |
| <b>YTD</b>      |   | <b>1,244</b>              | <b>4,842</b> | <b>916</b> | <b>758</b> | <b>27,763</b> | <b>898</b> | <b>866</b> | <b>43</b> | <b>1,208</b> | <b>1,496</b> | <b>2,018</b> |

## Two-Week Summary of Passage Indices

|                 |   | COMBINED SOCKEYE |          |           |           |            |           |           |           |           |           |           |
|-----------------|---|------------------|----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                 |   | WTB              | IMN      | GRN       | LEW       | LGR        | LGS       | LMN       | RIS       | MCN       | JDA       | BO2       |
| Date            |   | (Coll)           | (Coll)   | (Coll)    | (Coll)    | (INDEX)    | (INDEX)   | (INDEX)   | (INDEX)   | (INDEX)   | (INDEX)   | (INDEX)   |
| 04/04/2008      | * | 0                | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/05/2008      | * | 0                | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 0         | 0         | 2         |
| 04/06/2008      | * | 0                | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/07/2008      | * | 0                | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 0         | 0         | 0         |
| 04/08/2008      | * | 0                | 0        | 0         | 0         | 0          | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/09/2008      | * | 0                | 0        | 0         | 0         | 73         | 0         | 0         | 0         | 0         | 0         | 0         |
| 04/10/2008      | * | 0                | 0        | 0         | 0         | 18         | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/11/2008      | * | 0                | ---      | 0         | 0         | 36         | 0         | 0         | 0         | 0         | 0         | 0         |
| 04/12/2008      | * | 0                | ---      | 0         | 0         | 0          | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/13/2008      | * | 0                | ---      | 0         | 1         | 91         | 0         | 0         | 0         | 0         | 0         | 0         |
| 04/14/2008      | * | 0                | 0        | 0         | 0         | 38         | 0         | 0         | 0         | 0         | ---       | 0         |
| 04/15/2008      | * | 0                | ---      | 0         | 0         | 121        | 1         | 0         | 0         | 17        | 0         | 0         |
| 04/16/2008      | * | 0                | ---      | 0         | 0         | 44         | 0         | 6         | 0         | ---       | 7         | 0         |
| 04/17/2008      | * | 0                | ---      | 0         | 1         | 60         | 0         | 0         | 0         | 0         | 0         | 0         |
| 04/18/2008      |   | ---              | ---      | ---       | ---       | ---        | ---       | ---       | ---       | ---       | ---       | ---       |
| <hr/>           |   |                  |          |           |           |            |           |           |           |           |           |           |
| <b>Total:</b>   |   | <b>0</b>         | <b>0</b> | <b>0</b>  | <b>2</b>  | <b>481</b> | <b>1</b>  | <b>6</b>  | <b>0</b>  | <b>17</b> | <b>7</b>  | <b>2</b>  |
| <b># Days:</b>  |   | <b>14</b>        | <b>8</b> | <b>14</b> | <b>14</b> | <b>14</b>  | <b>14</b> | <b>14</b> | <b>14</b> | <b>7</b>  | <b>14</b> | <b>14</b> |
| <b>Average:</b> |   | <b>0</b>         | <b>0</b> | <b>0</b>  | <b>0</b>  | <b>34</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>2</b>  | <b>1</b>  | <b>0</b>  |
| <b>YTD</b>      |   | <b>0</b>         | <b>0</b> | <b>0</b>  | <b>2</b>  | <b>501</b> | <b>1</b>  | <b>8</b>  | <b>0</b>  | <b>17</b> | <b>7</b>  | <b>2</b>  |

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

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

### Definitions for Smolt Index Counts

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

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

## Two Week Transportation Summary

Source: Fish Passage Center

Updated:

4/18/08 12:04 PM

|                                |                          | 04/04/08 TO 04/18/08 |         |     |     |        |             |  |
|--------------------------------|--------------------------|----------------------|---------|-----|-----|--------|-------------|--|
|                                |                          | Species              |         |     |     |        |             |  |
| Site                           | Data                     | CH0                  | CH1     | CO  | SO  | ST     | Grand Total |  |
| <b>LGR</b>                     | Sum of NumberCollected   | 80                   | 26,348  | 80  | 290 | 17,275 | 44,073      |  |
|                                | Sum of NumberBarged      | 54                   | 13,042  | 51  | 144 | 4,043  | 17,334      |  |
|                                | Sum of NumberBypassed    | 25                   | 13,925  | 38  | 146 | 13,472 | 27,606      |  |
|                                | Sum of Numbertrucked     | 0                    | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of SampleMorts       | 1                    | 36      | 0   | 0   | 3      | 40          |  |
|                                | Sum of FacilityMorts     | 0                    | 47      | 0   | 0   | 0      | 47          |  |
|                                | Sum of ResearchMorts     | 0                    | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of TotalProjectMorts | 1                    | 83      | 0   | 0   | 3      | 87          |  |
| <b>LGS</b>                     | Sum of NumberCollected   |                      | 226     | 1   | 1   | 626    | 854         |  |
|                                | Sum of NumberBarged      |                      | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of NumberBypassed    |                      | 226     | 1   | 1   | 625    | 853         |  |
|                                | Sum of Numbertrucked     |                      | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of SampleMorts       |                      | 0       | 0   | 0   | 1      | 1           |  |
|                                | Sum of FacilityMorts     |                      | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of ResearchMorts     |                      | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of TotalProjectMorts |                      | 0       | 0   | 0   | 1      | 1           |  |
| <b>LMN</b>                     | Sum of NumberCollected   |                      | 9,349   |     | 4   | 443    | 9,796       |  |
|                                | Sum of NumberBarged      |                      | 0       |     | 0   | 0      | 0           |  |
|                                | Sum of NumberBypassed    |                      | 9,342   |     | 4   | 443    | 9,789       |  |
|                                | Sum of Numbertrucked     |                      | 0       |     | 0   | 0      | 0           |  |
|                                | Sum of SampleMorts       |                      | 7       |     | 0   | 0      | 7           |  |
|                                | Sum of FacilityMorts     |                      | 0       |     | 0   | 0      | 0           |  |
|                                | Sum of ResearchMorts     |                      | 0       |     | 0   | 0      | 0           |  |
|                                | Sum of TotalProjectMorts |                      | 7       |     | 0   | 0      | 7           |  |
| <b>MCN</b>                     | Sum of NumberCollected   | 10                   | 85,656  | 490 | 10  | 736    | 86,902      |  |
|                                | Sum of NumberBarged      | 0                    | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of NumberBypassed    | 10                   | 85,614  | 490 | 10  | 735    | 86,859      |  |
|                                | Sum of Numbertrucked     | 0                    | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of SampleMorts       | 0                    | 19      | 0   | 0   | 1      | 20          |  |
|                                | Sum of FacilityMorts     | 0                    | 23      | 0   | 0   | 0      | 23          |  |
|                                | Sum of ResearchMorts     | 0                    | 0       | 0   | 0   | 0      | 0           |  |
|                                | Sum of TotalProjectMorts | 0                    | 42      | 0   | 0   | 1      | 43          |  |
| Total Sum of NumberCollected   |                          | 90                   | 121,579 | 571 | 305 | 19,080 | 141,625     |  |
| Total Sum of NumberBarged      |                          | 54                   | 13,042  | 51  | 144 | 4,043  | 17,334      |  |
| Total Sum of NumberBypassed    |                          | 35                   | 109,107 | 529 | 161 | 15,275 | 125,107     |  |
| Total Sum of Numbertrucked     |                          | 0                    | 0       | 0   | 0   | 0      | 0           |  |
| Total Sum of SampleMorts       |                          | 1                    | 62      | 0   | 0   | 5      | 68          |  |
| Total Sum of FacilityMorts     |                          | 0                    | 70      | 0   | 0   | 0      | 70          |  |
| Total Sum of ResearchMorts     |                          | 0                    | 0       | 0   | 0   | 0      | 0           |  |
| Total Sum of TotalProjectMorts |                          | 1                    | 132     | 0   | 0   | 5      | 138         |  |

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

4/18/08 12:04 PM

**TO: 04/18/08**

|                                |                          | Species |         |     |     |        |             |
|--------------------------------|--------------------------|---------|---------|-----|-----|--------|-------------|
| Site                           | Data                     | CH0     | CH1     | CO  | SO  | ST     | Grand Total |
| <b>LGR</b>                     | Sum of NumberCollected   | 100     | 27,688  | 120 | 310 | 17,865 | 46,083      |
|                                | Sum of NumberBarged      | 54      | 13,042  | 51  | 144 | 4,043  | 17,334      |
|                                | Sum of NumberBypassed    | 45      | 15,264  | 78  | 166 | 14,062 | 29,615      |
|                                | Sum of NumberTrucked     | 0       | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of SampleMorts       | 1       | 37      | 0   | 0   | 3      | 41          |
|                                | Sum of FacilityMorts     | 0       | 47      | 0   | 0   | 0      | 47          |
|                                | Sum of ResearchMorts     | 0       | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of TotalProjectMorts | 1       | 84      | 0   | 0   | 3      | 88          |
| <b>LGS</b>                     | Sum of NumberCollected   |         | 226     | 1   | 1   | 626    | 854         |
|                                | Sum of NumberBarged      |         | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of NumberBypassed    |         | 226     | 1   | 1   | 625    | 853         |
|                                | Sum of NumberTrucked     |         | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of SampleMorts       |         | 0       | 0   | 0   | 1      | 1           |
|                                | Sum of FacilityMorts     |         | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of ResearchMorts     |         | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of TotalProjectMorts |         | 0       | 0   | 0   | 1      | 1           |
| <b>LMN</b>                     | Sum of NumberCollected   |         | 9,587   |     | 5   | 473    | 10,065      |
|                                | Sum of NumberBarged      |         | 0       |     | 0   | 0      | 0           |
|                                | Sum of NumberBypassed    |         | 9,580   |     | 5   | 471    | 10,056      |
|                                | Sum of NumberTrucked     |         | 0       |     | 0   | 0      | 0           |
|                                | Sum of SampleMorts       |         | 7       |     | 0   | 0      | 7           |
|                                | Sum of FacilityMorts     |         | 0       |     | 0   | 2      | 2           |
|                                | Sum of ResearchMorts     |         | 0       |     | 0   | 0      | 0           |
|                                | Sum of TotalProjectMorts |         | 7       |     | 0   | 2      | 9           |
| <b>MCN</b>                     | Sum of NumberCollected   | 10      | 85,736  | 500 | 10  | 807    | 87,063      |
|                                | Sum of NumberBarged      | 0       | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of NumberBypassed    | 10      | 85,693  | 500 | 10  | 805    | 87,018      |
|                                | Sum of NumberTrucked     | 0       | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of SampleMorts       | 0       | 20      | 0   | 0   | 1      | 21          |
|                                | Sum of FacilityMorts     | 0       | 23      | 0   | 0   | 1      | 24          |
|                                | Sum of ResearchMorts     | 0       | 0       | 0   | 0   | 0      | 0           |
|                                | Sum of TotalProjectMorts | 0       | 43      | 0   | 0   | 2      | 45          |
| Total Sum of NumberCollected   |                          | 110     | 123,237 | 621 | 326 | 19,771 | 144,065     |
| Total Sum of NumberBarged      |                          | 54      | 13,042  | 51  | 144 | 4,043  | 17,334      |
| Total Sum of NumberBypassed    |                          | 55      | 110,763 | 579 | 182 | 15,963 | 127,542     |
| Total Sum of NumberTrucked     |                          | 0       | 0       | 0   | 0   | 0      | 0           |
| Total Sum of SampleMorts       |                          | 1       | 64      | 0   | 0   | 5      | 70          |
| Total Sum of FacilityMorts     |                          | 0       | 70      | 0   | 0   | 3      | 73          |
| Total Sum of ResearchMorts     |                          | 0       | 0       | 0   | 0   | 0      | 0           |
| Total Sum of TotalProjectMorts |                          | 1       | 134     | 0   | 0   | 8      | 143         |

**Cumulative Adult Passage at Mainstem Dams Through: 04/17**

| 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 | 04/17   | 8959           | 12   | 4300  | 15   | 40682      | 155  | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| TDA | 04/17   | 5259           | 14   | 1035  | 13   | 21804      | 53   | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| JDA | 04/17   | 2993           | 8    | 580   | 10   | 14131      | 22   | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| MCN | 04/15   | 259            | 3    | 8     | 2    | 6229       | 13   | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| IHR | 04/16   | 128            | 1    | 1     | 1    | 4002       | 3    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| LMN | 04/17   | 41             | 0    | 3     | 2    | 3178       | 1    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| LGS | 04/17   | 15             | 0    | 3     | 0    | 2147       | 25   | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| LGR | 04/17   | 12             | 0    | 3     | 0    | 1092       | 0    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| PRD | -       | 0              | 0    | 0     | 0    | 0          | 0    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| RIS | 04/16   | 1              | 0    | 0     | 0    | 44         | 0    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| RRH | 04/16   | 0              | 0    | 0     | 0    | 1          | 0    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| WEL | -       | 0              | 0    | 0     | 0    | 0          | 0    | 0              | 0    | 0     | 0    | 0          | 0    | 0            | 0    | 0     | 0    | 0          | 0    |
| WFA | 04/16   | 228            | 0    | 514   | 2    | -          | -    | 0              | 0    | 0     | 0    | -          | -    | 0            | 0    | 0     | 0    | -          | -    |

| DAM | Coho  |      |       |      |            |      | Sockeye |      |      | Steelhead |      |      |      |
|-----|-------|------|-------|------|------------|------|---------|------|------|-----------|------|------|------|
|     | 2008  |      | 2007  |      | 10-Yr Avg. |      | 10-Yr   |      |      | 10-Yr     |      |      | Wild |
|     | Adult | Jack | Adult | Jack | Adult      | Jack | 2008    | 2007 | Avg. | 2008      | 2007 | Avg. | 2008 |
| BON | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 1365      | 1515 | 1595 | 523  |
| TDA | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 768       | 910  | 702  | 318  |
| JDA | -1    | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 1830      | 1423 | 2029 | 720  |
| MCN | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 1446      | 1363 | 1174 | 595  |
| IHR | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 2192      | 1920 | 1513 | 770  |
| LMN | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 2478      | 1902 | 1569 | 943  |
| LGS | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 1363      | 1801 | 1690 | 443  |
| LGR | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 6030      | 9976 | 6755 | 1548 |
| PRD | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 0         | 0    | 0    | 0    |
| RIS | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 26        | 6    | 5    | 0    |
| RRH | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 76        | 10   | 20   | 0    |
| WEL | 0     | 0    | 0     | 0    | 0          | 0    | 0       | 0    | 0    | 0         | 0    | 0    | 0    |
| WFA | 0     | 0    | 2     | 0    | -          | -    | 0       | 0    | -    | 3297      | 4802 | -    | -    |

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: 04/18/08

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            |