



Fish Passage Center

Weekly Report #04 - 2

March 19, 2004

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Summary of Events:

- Winter operations at Grand Coulee have drafted the reservoir 16.4 feet below the April 10, BIOP reservoir elevation, making it unlikely that the BIOP reservoir elevation and spring migration flow objectives will be met.
- Libby, Hungry Horse, and Dworshak reservoirs are below the BIOP flood control elevations. Libby is 44 feet below its estimated April 10 elevation. Hungry Horse is 25 feet below its estimated April 10 elevation.
- Next week the USFWS Entiat River trap sample data will be reported in the weekly report.

Water Supply: Precipitation throughout the Columbia Basin has been generally below average over the first portion of March. Of the sites in Table 1 only one of thirteen sites recorded precipitation that was greater than average. Over the entire water year, precipitation has been nearly average.

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

| Location | Water Year 2004 March 1-15 | | Water Year 2004 October 1, 2003 to March 15, 2004 | |
|--------------------------------|-------------------------------|--------------|---|--------------|
| | Observed (inches) | % Average | Observed (inches) | % Average |
| Columbia Above Coulee | 0.80 | 92 | 12.68 | 95 |
| Snake River Above Ice Harbor | 0.40 | 50 | 8.78 | 93 |
| Columbia Above The Dalles | 0.70 | 75 | 12.86 | 97 |
| Kootenai | 0.66 | 77 | 13.20 | 97 |
| Clark Fork | 0.46 | 78 | 7.18 | 86 |
| Flathead | 0.81 | 102 | 10.54 | 93 |
| Pend Oreille/Spokane | 0.78 | 58 | 17.44 | 93 |
| Central Washington | 0.22 | 55 | 4.98 | 91 |
| Snake River Plain | 0.13 | 23 | 4.59 | 83 |
| Salmon/Boise/Payette | 0.37 | 39 | 10.48 | 89 |
| Clearwater | 1.30 | 96 | 17.58 | 102 |
| SW Washington Cascades/Cowlitz | 1.99 | 58 | 45.66 | 92 |
| Willamette Valley | 1.13 | 37 | 40.59 | 97 |

Snowpack within the Columbia Basin is also near or above average. Average snowpack in the Columbia River for basins above the Snake River confluence is 89% of average, for Snake River Basins the average snowpack is 98% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 110% of average.

Water Supply Forecasts have generally decreased over the winter months. The current forecast at The Dalles between January and July is 87% of average. Table 2 displays the February Final and March Final runoff volume forecasts for multiple reservoirs.

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

| Location | February Final | | March Final | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|
| | % Average (1971-2000) | Probable Runoff Volume (Kaf) | % Average (1971-2000) | Probable Runoff Volume (Kaf) |
| The Dalles (Jan-July) | 93 | 100000 | 87 | 92900 |
| Grand Coulee (Jan-July) | 95 | 59800 | 88 | 55600 |
| Libby Res. Inflow, MT (Jan-July) | 95 | 6000 | 90 | 5700 |
| Hungry Horse Res. Inflow, MT (Jan-July) | 96 | 2130 | 87 | 1930 |
| Lower Granite Res. Inflow (Apr- July) | 97 | 20800 | 93 | 20000 |
| Brownlee Res. Inflow (Apr-July) | 71 | 4510 | 72 | 4530 |
| Dworshak Res. Inflow (Apr-July) | 112 | 2970 | 100 | 2640 |

Grand Coulee Reservoir is currently drafted well below its flood control elevations. Grand Coulee ended March 17th at an elevation of 1259.4 feet, this elevation is 16.4 feet below the BIOP required April 10th elevation (1275.8 feet) and 12.8 feet below the April 10th elevation (1272.2 feet) if a flood control swap occurs between Grand Coulee and Dworshak. It appears unlikely that Grand Coulee will reach its standard April 10th BIOP elevation in 2004.

The Libby Reservoir is also currently well below its flood control elevations. Libby ended March 17th at an elevation of 2398.6 feet, 44.4 feet below its estimated April 10th elevation of 2443 feet. Libby continues to draft water to meet its minimum project outflow of 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3511.8 feet, which is 25.4 feet below its estimated April 10th BIOP elevation. Hungry Horse continues to draft slightly to meet Columbia Falls minimum flows.

The Dworshak reservoir is currently at an elevation of 1514.0 feet. Dworshak is also well below its April 10th elevations of 1535.5 feet (system FC) and 1554.1 feet (local FC, elevation if shift occurs with Grand Coulee). Over the first part of March, Dworshak has been able to refill slightly as project outflows were reduced to the minimum.

The Brownlee Reservoir was at an elevation of 2049.7 on March 17th. Out of all the major storage projects within the Columbia Hydroystem, Brownlee is the closest to its April 10th elevation (2055.1 feet).

Smolt Monitoring: At the Snake River Basin traps the numbers of yearling chinook being captured are still quite low. At the Whitebird Trap a weekly high of 295 yearling chinook were collected on March 17. The trap also has seen an increase in the proportion of fish captured that were clipped hatchery fish. It is likely that these fish are an early representation of the 2.8 million Rapid River hatchery fish released volitionally beginning on March 15. Only a few fish have been fish captured thus far at the Lewiston Trap. Numbers of yearling chinook at the Grande Ronde Trap have ranged from 7 to 17 fish, while the number increased to the 100 - 150 fish range at the Imnaha Trap.

Sampling began on March 3 at Bonneville Dam shortly after the first Spring Creek Hatchery release on March 1. A second release of 3.65 million subyearling fall chinook from Spring Creek Hatchery occurred on March 10, with numbers peaking significantly in the sample ending on the morning of March 13. The numbers have decreased steadily from that point, and are averaging about 4,000 subyearling chinook per day.

Hatchery Releases - The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2004 migration season is estimated near 81.8 million. The Zone Release Report below summarizes "planned" hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2004 Migration Season. These release totals will be updated throughout the juvenile migration season. The Weekly Report will provide a summary of hatchery fish released during the previous 2-weeks as well as a summary for the upcoming 2-weeks from the various hatcheries in the Columbia Basin.

About 316, juvenile sockeye were released from net pens into Lake Wenatchee last summer and fall. The majority of these fish over-winter in the lake and begin migration from the lake and to the ocean the next spring (2004). In the Snake River basin, approximately 62k juvenile sockeye were released in Redfish, Alturas, and Pettit lakes last fall and will migrate from the lakes in late April and May.

Hatchery Zone Report for 2004 Migration Year.

| | March 19, 2004 | | | |
|------------------|----------------|--------------|----------------|---------------|
| | Snake River | Mid-Columbia | Lower Columbia | Total Release |
| Fall Chinook | 2,610,000 | 12,430,000 | 21,730,094 | 36,770,094 |
| Spring Chinook | 10,469,142 | 3,910,579 | 5,250,398 | 19,630,119 |
| Summer Chinook | 2,401,322 | 3,324,000 | | 5,725,322 |
| Coho | 1,199,433 | 1,141,000 | 5,924,000 | 8,264,433 |
| Sockeye | 62,000 | 315,790 | | 377,790 |
| Summer Steelhead | 9,276,500 | 1,251,000 | 457,600 | 10,985,100 |
| Winter Steelhead | | | 90,000 | 90,000 |
| Total | 26,018,397 | 22,372,369 | 33,452,092 | 81,842,858 |
| | | | | |

About 10 million fish were released from hatcheries during the first two weeks in March; most releases were from hatcheries located in the lower Columbia River. Spring Creek NFH released about 3.65 million subyearling fall chinook on 3/1, and 3.65 million on 3/10. In addition, about 1 million yearling fall chinook, spring chinook and coho were released from Umatilla River acclimation ponds beginning March 1 and ending March 11 (short-term volitional releases). Nearly 610,000 yearling chinook were released from Klickitat H. during the first week in March.

In the Snake River basin, volitional releases of yearling spring/summer chinook were initiated from Rapid River H (2.7 million), from Curl Lake in the Tucannon River, and from Lostine River, Catherine Creek, and Grande Ronde acclimation ponds. Direct stream releases were completed in the Little Salmon River and below Hells Canyon Dam, with Johnson Creek summer chinook releases to be completed on March 19.

In the Yakima River basin, volitional releases of spring chinook were initiated from Clark Flat, Jack Creek, and Easton Ponds. About 838k will be released from the 3 ponds during the upcoming 2 months.

About 550k juvenile coho salmon were released in Lapwai Creek and Potlatch River by March 12th.

For the upcoming two weeks, volitional releases of yearling salmon will be ongoing from hatcheries listed above and initiated at Lookingglass Hatchery for a small release of 53k. Summer chinook from McCall Hatchery will be trucked and released into the South Fork. Salmon this next week. The volitional release of coho salmon from Pendleton Pond will also be completed by the end of next week.

Adult Fish Passage - At Bonneville and upstream dams, calendar dates when official counting of adult fish will be initiated varies among the sites. Lower Granite Dam began reporting counts on March 1, Bonneville Dam on March 15, and at the remaining mainstem COE projects, counting will begin on April 1st. The PUD dams in the Mid-Columbia River normally begin counting adult fish approximately April 15, with Wells Dam starting on May 1. The Bonneville Dam counts from January through March 9 are tabulated below the Cumulative Adult Passage Table.

For the initial 3 count days, March 15 - 17, passage of adult spring chinook at Bonneville Dam has been very low with 67 tallied to date. This compares to the 10-year average of 244 and the 2003 count of 2,512. To date, few 5-year old fish have arrived at the project. 5 year old fish generally make up the early portion of the spring chinook migration. Unlike 2003, returns from the 4-year old chinook component of the run are projected to be the main contributors for the upper river spring chinook in 2004.

Returns of adult steelhead (205) at Bonneville Dam appear to be near the 2003 total and about double the 10-year average. At Lower Granite Dam, 2,317 adult steelhead have been tallied, slightly above the 10-year average, but significantly less than the 2003 count at the project. Note that these steelhead are fish that have overwintered in the Snake or Columbia River below Lower Granite Dam and begin their migration in the late winter/early spring to spawning areas in the rivers and tributaries above the dam.

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 |
| 03/05/04 | 69.4 | 0.0 | 76.4 | 0.0 | 77.6 | 0.0 | 80.2 | 0.0 | 85.4 | 0.0 | 100.4 | 0.0 | 104.3 | 0.0 |
| 03/06/04 | 53.3 | 0.0 | 54.7 | 0.0 | 53.8 | 0.0 | 56.9 | 0.0 | 58.5 | 0.0 | 75.6 | 0.0 | 72.0 | 0.0 |
| 03/07/04 | 39.7 | 0.0 | 41.6 | 0.0 | 41.1 | 0.0 | 44.4 | 0.0 | 45.9 | 0.0 | 69.3 | 0.0 | 72.0 | 0.0 |
| 03/08/04 | 74.5 | 0.0 | 71.4 | 0.0 | 70.9 | 0.0 | 70.7 | 0.0 | 72.5 | 0.0 | 72.2 | 0.0 | 72.0 | 0.0 |
| 03/09/04 | 78.8 | 0.0 | 79.0 | 0.0 | 79.4 | 0.0 | 80.6 | 0.0 | 85.2 | 0.0 | 71.6 | 0.0 | 72.2 | 0.0 |
| 03/10/04 | 79.7 | 0.0 | 80.7 | 0.0 | 84.1 | 0.0 | 84.8 | 0.0 | 89.5 | 0.0 | 87.2 | 0.0 | 83.1 | 0.0 |
| 03/11/04 | 63.5 | 0.0 | 68.1 | 0.0 | 69.9 | 0.0 | 69.6 | 0.0 | 73.5 | 0.0 | 82.0 | 0.0 | 82.4 | 0.0 |
| 03/12/04 | 61.3 | 0.0 | 67.1 | 0.0 | 66.9 | 0.0 | 68.3 | 0.0 | 72.5 | 0.0 | 74.0 | 0.0 | 71.6 | 0.0 |
| 03/13/04 | 49.6 | 0.0 | 49.0 | 0.0 | 52.6 | 0.0 | 52.0 | 0.0 | 56.1 | 0.0 | 65.2 | 0.0 | 71.4 | 0.0 |
| 03/14/04 | 35.5 | 0.0 | 41.2 | 0.0 | 39.4 | 0.0 | 38.1 | 0.0 | 40.4 | 0.0 | 61.6 | 0.0 | 71.5 | 0.0 |
| 03/15/04 | 66.4 | 0.0 | 60.4 | 0.0 | 64.4 | 0.0 | 68.8 | 0.1 | 73.3 | 0.0 | 86.5 | 1.6 | 71.4 | 0.0 |
| 03/16/04 | 73.7 | 0.0 | 72.3 | 0.0 | 73.5 | 0.0 | 73.6 | 0.0 | 76.9 | 0.0 | 73.1 | 0.0 | 71.7 | 0.0 |
| 03/17/04 | 82.7 | 0.0 | 83.8 | 0.0 | 82.4 | 0.0 | 83.6 | 0.0 | 87.5 | 0.0 | 63.8 | 0.0 | 72.1 | 0.0 |
| 03/18/04 | 78.9 | 0.0 | 80.1 | 0.0 | 80.3 | 0.0 | 76.9 | 0.0 | 82.5 | 0.0 | 85.3 | 0.0 | 72.0 | 0.0 |

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

| Date | Dworshak | | Brownlee Canyon | | Lower Granite | | Little Goose | | Lower Monumental | | Ice Harbor | |
|----------|----------|-------|-----------------|---------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
| | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 03/05/04 | 1.6 | 0.0 | 15.5 | 21.1 | 34.6 | 0.0 | 34.8 | 0.0 | 37.6 | 0.0 | 37.4 | 0.0 |
| 03/06/04 | 1.6 | 0.0 | 14.8 | 15.7 | 31.1 | 0.0 | 31.0 | 0.0 | 32.5 | 0.0 | 31.2 | 0.0 |
| 03/07/04 | 1.6 | 0.0 | 13.4 | 12.9 | 29.2 | 0.0 | 26.8 | 0.0 | 27.8 | 0.0 | 26.5 | 0.0 |
| 03/08/04 | 1.6 | 0.0 | 15.1 | 19.5 | 30.0 | 0.0 | 32.4 | 0.0 | 33.9 | 0.0 | 33.7 | 0.0 |
| 03/09/04 | 1.6 | 0.0 | 16.0 | 17.2 | 32.3 | 0.0 | 31.1 | 0.0 | 32.9 | 0.0 | 31.3 | 0.0 |
| 03/10/04 | 1.6 | 0.0 | 18.1 | 22.8 | 29.9 | 0.0 | 29.2 | 0.0 | 31.8 | 0.0 | 29.6 | 0.0 |
| 03/11/04 | 1.6 | 0.1 | 18.3 | 19.5 | 40.1 | 0.0 | 38.9 | 0.0 | 41.7 | 0.0 | 39.8 | 0.2 |
| 03/12/04 | 1.6 | 0.0 | 18.4 | 16.5 | 37.1 | 0.0 | 38.5 | 0.0 | 42.4 | 0.0 | 41.0 | 0.0 |
| 03/13/04 | 1.6 | 0.0 | 18.7 | 16.1 | 37.6 | 0.0 | 36.4 | 0.0 | 38.9 | 0.0 | 38.1 | 0.0 |
| 03/14/04 | 1.6 | 0.0 | 19.0 | 8.7 | 31.4 | 0.0 | 31.4 | 0.0 | 31.5 | 0.0 | 29.9 | 0.0 |
| 03/15/04 | 1.6 | 0.0 | 20.5 | 17.5 | 44.2 | 0.0 | 46.6 | 0.0 | 50.4 | 0.0 | 48.8 | 0.0 |
| 03/16/04 | 1.5 | 0.0 | 19.9 | 20.3 | 37.3 | 0.0 | 42.1 | 0.0 | 46.1 | 0.0 | 43.1 | 0.1 |
| 03/17/04 | 1.6 | 0.0 | 20.1 | 21.5 | 40.9 | 0.0 | 34.3 | 0.0 | 36.4 | 0.0 | 32.9 | 0.5 |
| 03/18/04 | 1.6 | 0.0 | --- | --- | 42.2 | 0.0 | 43.7 | 0.0 | 48.6 | 0.0 | 49.4 | 1.2 |

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

| Date | McNary | | John Day | | The Dalles | | Bonneville | | | |
|----------|--------|-------|----------|-------|------------|-------|------------|-------|------|------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | PH1 | PH2 |
| 03/05/04 | 128.3 | 0.0 | 130.2 | 0.0 | 144.1 | 0.0 | 166.9 | 50.0 | 25.0 | 85.0 |
| 03/06/04 | 122.0 | 0.0 | 136.1 | 0.0 | 136.8 | 0.0 | 169.9 | 42.0 | 37.1 | 83.9 |
| 03/07/04 | 100.3 | 0.0 | 93.9 | 0.0 | 99.8 | 0.0 | 121.3 | 2.1 | 32.7 | 80.3 |
| 03/08/04 | 117.8 | 0.0 | 120.4 | 0.0 | 122.6 | 0.0 | 123.3 | 2.1 | 36.2 | 78.8 |
| 03/09/04 | 109.3 | 0.0 | 113.6 | 0.0 | 120.1 | 0.0 | 124.1 | 2.1 | 31.1 | 84.9 |
| 03/10/04 | 112.2 | 0.0 | 114.9 | 0.0 | 121.0 | 0.0 | 135.5 | 2.2 | 44.7 | 82.3 |
| 03/11/04 | 124.2 | 0.0 | 135.5 | 0.0 | 136.5 | 0.0 | 144.4 | 2.2 | 50.6 | 83.4 |
| 03/12/04 | 117.3 | 0.0 | 121.1 | 0.0 | 129.8 | 0.0 | 133.2 | 2.2 | 40.5 | 79.5 |
| 03/13/04 | 114.4 | 0.0 | 122.2 | 0.0 | 131.9 | 0.0 | 144.8 | 2.2 | 47.8 | 83.2 |
| 03/14/04 | 98.7 | 0.0 | 99.7 | 0.0 | 97.7 | 0.0 | 129.7 | 2.2 | 34.4 | 81.6 |
| 03/15/04 | 134.2 | 0.0 | 138.2 | 0.0 | 144.9 | 0.0 | 136.2 | 2.2 | 37.9 | 86.1 |
| 03/16/04 | 131.7 | 0.0 | 155.1 | 0.0 | 158.8 | 0.0 | 170.1 | 2.2 | 68.7 | 92.3 |
| 03/17/04 | 106.4 | 0.0 | 117.5 | 0.0 | 123.2 | 0.0 | 130.2 | 2.2 | 38.6 | 82.4 |
| 03/18/04 | 201.8 | 0.0 | 130.3 | 0.0 | 141.9 | 0.0 | 153.2 | 2.2 | 55.1 | 88.9 |

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

| From: | 3/5/2004 | to | 3/18/2004 | | | | | | |
|--|-----------------------|---------|-----------|-------|-------------------|----------|----------|--------------------------|-------------------------|
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Idaho Dept. of Fish and Game | Rapid River Hatchery | CH1 | SP | 2004 | 300,000 | 03-18-04 | 03-18-04 | Little Salmon River | Salmon River (ID) |
| Idaho Dept. of Fish and Game | Rapid River Hatchery | CH1 | SP | 2004 | 500,000 | 03-15-04 | 03-17-04 | Hells Canyon Dam | Snake River |
| Idaho Dept. of Fish and Game | Rapid River Hatchery | CH1 | SP | 2004 | 2,763,500 | 03-15-04 | 04-23-04 | Rapid River Hatchery | Little Salmon River |
| Idaho Dept. of Fish and Game Total | | | | | 3,563,500 | | | | |
| Nez Perce Tribe | Eagle Creek NFH | CO | UN | 2004 | 275,000 | 03-01-04 | 03-12-04 | Lapwai Creek | Clearwater River M F |
| Nez Perce Tribe | Eagle Creek NFH | CO | UN | 2004 | 275,000 | 03-01-04 | 03-12-04 | Potlatch River | Clearwater River M F |
| Nez Perce Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 116,000 | 03-12-04 | 03-21-04 | Lostine Accim Pond | Wallowa River |
| Nez Perce Tribe | McCall Hatchery | CH1 | SU | 2004 | 112,000 | 03-15-04 | 03-19-04 | Johnson Cr Idaho | South Fork Salmon River |
| Nez Perce Tribe Total | | | | | 778,000 | | | | |
| Oregon Dept. of Fish and Wildlife | Cascade Hatchery | CO | UN | 2004 | 750,000 | 03-08-04 | 03-26-04 | Pendelton Acclim Pond | Umatilla River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 750,000 | | | | |
| U.S. Fish and Wildlife Service | Spring Creek NFH | CH0 | FA | 2004 | 3,654,168 | 03-10-04 | 03-10-04 | Spring Creek Hatchery | L Col R (D/s McN Dam) |
| U.S. Fish and Wildlife Service Total | | | | | 3,654,168 | | | | |
| Umatilla Tribe | Bonneville Hatchery | CH1 | FA | 2004 | 240,619 | 03-03-04 | 03-11-04 | Thornhollow Acclim Pond | Umatilla River |
| Umatilla Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 70,000 | 03-15-04 | 03-22-04 | Grande Ronde Acclim Pond | Grande Ronde River |
| Umatilla Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 92,000 | 03-15-04 | 03-21-04 | Catherine Cr Acclim Pond | Grande Ronde River |
| Umatilla Tribe | Umatilla Hatchery | CH1 | SP | 2004 | 493,248 | 03-01-04 | 03-08-04 | Imeques Acclim Pond | Umatilla River |
| Umatilla Tribe Total | | | | | 895,867 | | | | |
| Washington Dept. of Fish and Wildlife | Klickitat Hatchery | CH1 | SP | 2004 | 609,800 | 03-01-04 | 03-05-04 | Klickitat Hatchery | Klickitat River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH1 | SP | 2004 | 45,000 | 03-15-04 | 04-18-04 | Curl Lake Acclim Pond | Tucannon River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH1 | SP | 2004 | 125,000 | 03-15-04 | 04-18-04 | Curl Lake Acclim Pond | Tucannon River |
| Washington Dept. of Fish and Wildlife Total | | | | | 779,800 | | | | |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 267,000 | 03-15-04 | 05-15-04 | Clark Flat Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 280,000 | 03-15-04 | 05-15-04 | Jack Creek Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 291,400 | 03-15-04 | 05-15-04 | Easton Pond | Yakama River |
| Yakama Tribe Total | | | | | 838,400 | | | | |
| Grand Total | | | | | 11,259,735 | | | | |

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

| From: | 3/19/2004 | to | 4/1/2004 | | | | | | |
|--|-----------------------|---------|----------|-------|------------------|----------|----------|--------------------------|-------------------------|
| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
| Idaho Dept. of Fish and Game | McCall Hatchery | CH1 | SU | 2004 | 1,089,000 | 03-22-04 | 03-26-04 | Knox Bridge | Salmon River (ID) |
| Idaho Dept. of Fish and Game | Rapid River Hatchery | CH1 | SP | 2004 | 2,763,500 | 03-15-04 | 04-23-04 | Rapid River Hatchery | Little Salmon River |
| Idaho Dept. of Fish and Game Total | | | | | 3,852,500 | | | | |
| Nez Perce Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 116,000 | 03-12-04 | 03-21-04 | Lostine Accim Pond | Wallowa River |
| Nez Perce Tribe | McCall Hatchery | CH1 | SU | 2004 | 112,000 | 03-15-04 | 03-19-04 | Johnson Cr Idaho | South Fork Salmon River |
| Nez Perce Tribe Total | | | | | 228,000 | | | | |
| Oregon Dept. of Fish and Wildlife | Cascade Hatchery | CO | UN | 2004 | 750,000 | 03-08-04 | 03-26-04 | Pendelton Acclim Pond | Umatilla River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 750,000 | | | | |
| Umatilla Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 70,000 | 03-15-04 | 03-22-04 | Grande Ronde Acclim Pond | Grande Ronde River |
| Umatilla Tribe | Lookingglass Hatchery | CH1 | SP | 2004 | 92,000 | 03-15-04 | 03-21-04 | Catherine Cr Acclim Pond | Grande Ronde River |
| Umatilla Tribe Total | | | | | 162,000 | | | | |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH1 | SP | 2004 | 45,000 | 03-15-04 | 04-18-04 | Curl Lake Acclim Pond | Tucannon River |
| Washington Dept. of Fish and Wildlife | Lyons Ferry Hatchery | CH1 | SP | 2004 | 125,000 | 03-15-04 | 04-18-04 | Curl Lake Acclim Pond | Tucannon River |
| Washington Dept. of Fish and Wildlife Total | | | | | 170,000 | | | | |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 267,000 | 03-15-04 | 05-15-04 | Clark Flat Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 280,000 | 03-15-04 | 05-15-04 | Jack Creek Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2004 | 291,400 | 03-15-04 | 05-15-04 | Easton Pond | Yakama River |
| Yakama Tribe Total | | | | | 838,400 | | | | |
| Grand Total | | | | | 6,000,900 | | | | |

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>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | | | | | |
| | Avg | Avg | | High | Avg | | Avg | High | | Avg | Avg | | High | Avg | | | Avg | High | Avg | Avg |
| 3/5 | --- | --- | --- | 0 | 102 | 103 | 104 | 20 | 101 | 101 | 102 | 24 | 99 | 100 | 100 | 23 | --- | --- | --- | 0 |
| 3/6 | --- | --- | --- | 0 | 101 | 101 | 102 | 24 | 100 | 100 | 100 | 24 | 97 | 98 | 98 | 23 | --- | --- | --- | 0 |
| 3/7 | --- | --- | --- | 0 | 100 | 100 | 101 | 24 | 99 | 100 | 100 | 24 | 97 | 97 | 97 | 23 | --- | --- | --- | 0 |
| 3/8 | --- | --- | --- | 0 | 100 | 101 | 102 | 24 | 99 | 99 | 100 | 21 | 96 | 96 | 97 | 23 | --- | --- | --- | 0 |
| 3/9 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | 100 | 100 | 101 | 24 | 96 | 96 | 97 | 23 | --- | --- | --- | 0 |
| 3/10 | --- | --- | --- | 0 | 101 | 102 | 102 | 24 | 99 | 100 | 100 | 24 | 96 | 96 | 96 | 21 | --- | --- | --- | 0 |
| 3/11 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | 100 | 100 | 101 | 24 | 96 | 96 | 97 | 21 | --- | --- | --- | 0 |
| 3/12 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 101 | 101 | 102 | 24 | 96 | 97 | 97 | 23 | --- | --- | --- | 0 |
| 3/13 | --- | --- | --- | 0 | 101 | 102 | 102 | 24 | 100 | 100 | 100 | 24 | 98 | 100 | 104 | 18 | --- | --- | --- | 0 |
| 3/14 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 101 | 101 | 101 | 24 | 102 | 103 | 105 | 23 | --- | --- | --- | 0 |
| 3/15 | --- | --- | --- | 0 | 101 | 101 | 102 | 12 | 100 | 101 | 101 | 24 | 100 | 100 | 102 | 11 | --- | --- | --- | 0 |
| 3/16 | --- | --- | --- | 0 | 101 | 101 | 102 | 8 | 101 | 101 | 101 | 24 | 99 | 99 | 100 | 7 | --- | --- | --- | 0 |
| 3/17 | --- | --- | --- | 0 | 102 | 102 | 102 | 4 | 102 | 102 | 102 | 24 | 100 | 100 | 100 | 3 | --- | --- | --- | 0 |
| 3/18 | --- | --- | --- | 0 | 103 | 103 | 103 | 4 | 103 | 103 | 103 | 24 | 100 | 100 | 101 | 3 | --- | --- | --- | 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>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | | | | | |
| | Avg | Avg | | High | Avg | | Avg | High | | Avg | Avg | | High | Avg | | | Avg | High | Avg | Avg |
| 3/5 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/6 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/7 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/8 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/9 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/10 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/11 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/12 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/15 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/16 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/17 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |

Total Dissolved Gas Saturation at Mid Columbia River Sites

| Date | <u>Rock Island</u> | | | <u>Rock I. Tlwr</u> | | | <u>Wanapum</u> | | | <u>Wanapum Tlwr</u> | | | <u>Priest Rapids</u> | | | # | | | | |
|------|--------------------|-------------|-----|---------------------|-------------|-----|----------------|-------------|-----|---------------------|-------------|----|----------------------|-------------|-----|----|-----|------|-----|-----|
| | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | | | | | |
| | Avg | Avg | | High | Avg | | Avg | High | | Avg | Avg | | High | Avg | | | Avg | High | Avg | Avg |
| 3/5 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/6 | --- | --- | --- | 0 | --- | --- | --- | 0 | 102 | 102 | 102 | 23 | 101 | 102 | 102 | 23 | 101 | 101 | 102 | 23 |
| 3/7 | --- | --- | --- | 0 | --- | --- | --- | 0 | 101 | 102 | 102 | 23 | 101 | 101 | 102 | 23 | 101 | 102 | 102 | 23 |
| 3/8 | --- | --- | --- | 0 | --- | --- | --- | 0 | 101 | 102 | 102 | 23 | 102 | 102 | 103 | 23 | 102 | 102 | 103 | 23 |
| 3/9 | --- | --- | --- | 0 | --- | --- | --- | 0 | 102 | 103 | 104 | 23 | 103 | 103 | 104 | 23 | 103 | 103 | 104 | 23 |
| 3/10 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/11 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/12 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/15 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/16 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/17 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 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 | | | Avg | | | |
| 3/5 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/6 | 101 | 101 | 102 | 23 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/7 | 101 | 102 | 102 | 23 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/8 | 102 | 102 | 103 | 23 | --- | --- | --- | 0 | 102 | 103 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/9 | 103 | 103 | 104 | 23 | --- | --- | --- | 0 | 105 | 106 | 106 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/10 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/11 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106 | 107 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/12 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106 | 106 | 108 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/15 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 106 | 108 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/16 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 105 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/17 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 104 | 105 | 23 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 105 | 106 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |

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 | | | Avg | | | |
| 3/5 | --- | --- | --- | 0 | 101 | 102 | 102 | 24 | 101 | 101 | 102 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/6 | --- | --- | --- | 0 | 100 | 100 | 101 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/7 | --- | --- | --- | 0 | 100 | 100 | 100 | 24 | 99 | 100 | 100 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/8 | --- | --- | --- | 0 | 100 | 101 | 101 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/9 | --- | --- | --- | 0 | 101 | 101 | 101 | 24 | 101 | 101 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/10 | --- | --- | --- | 0 | 101 | 101 | 102 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/11 | --- | --- | --- | 0 | 101 | 102 | 102 | 24 | 101 | 101 | 102 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/12 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 102 | 103 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/13 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 102 | 103 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/14 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/15 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 102 | 103 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/16 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/17 | --- | --- | --- | 0 | 103 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/18 | --- | --- | --- | 0 | 104 | 104 | 104 | 24 | 104 | 104 | 104 | 24 | 104 | 104 | 107 | 11 | 104 | 104 | 105 | 12 |

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 | | | Avg | | | |
| 3/5 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | 103 | 103 | 104 | 24 | 102 | 103 | 103 | 24 |
| 3/6 | --- | --- | --- | 0 | --- | --- | --- | 0 | 101 | 102 | 102 | 24 | 102 | 102 | 102 | 24 | 101 | 101 | 101 | 24 |
| 3/7 | --- | --- | --- | 0 | --- | --- | --- | 0 | 101 | 101 | 102 | 24 | 102 | 102 | 102 | 24 | 101 | 101 | 102 | 24 |
| 3/8 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 106 | 24 | 102 | 103 | 104 | 20 | 101 | 102 | 103 | 24 |
| 3/9 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 104 | 24 | 102 | 102 | 102 | 24 |
| 3/10 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 106 | 24 | 102 | 103 | 103 | 24 | 102 | 104 | 106 | 24 |
| 3/11 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 105 | 106 | 24 | 104 | 104 | 105 | 20 | 104 | 105 | 106 | 24 |
| 3/12 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 104 | 104 | 24 | 104 | 104 | 104 | 24 | 105 | 105 | 106 | 24 |
| 3/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 105 | 24 | 103 | 103 | 103 | 24 | 105 | 106 | 107 | 24 |
| 3/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 104 | 24 | 105 | 105 | 106 | 24 |
| 3/15 | --- | --- | --- | 0 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 102 | 102 | 103 | 16 | 105 | 105 | 106 | 24 |
| 3/16 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 104 | 24 | 105 | 106 | 106 | 24 |
| 3/17 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | 104 | 104 | 105 | 16 | 105 | 106 | 107 | 24 |
| 3/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 105 | 105 | 24 | 105 | 106 | 108 | 24 | 106 | 107 | 108 | 24 |

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>McNary-Wash</u> | | | <u>McNary Tlwr</u> | | | <u>John Day</u> | | | <u>John Day Tlwr</u> | | | <u>The Dalles</u> | | | # | | | | |
|------|--------------------|-------------|-----|--------------------|-------------|-----|-----------------|------------|-----|----------------------|------------|---|-------------------|------------|-----|----|------|-----|-----|------|
| | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24h</u> | <u>12h</u> | # | <u>24h</u> | <u>12h</u> | # | <u>24h</u> | <u>12h</u> | # | | | | | |
| | Avg | Avg | | Avg | Avg | | High | Avg | | Avg | High | | Avg | Avg | | | High | Avg | AVG | High |
| 3/5 | 102 | 103 | 103 | 24 | 102 | 102 | 103 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/6 | 100 | 101 | 101 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/7 | 100 | 101 | 101 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/8 | 102 | 103 | 104 | 24 | 101 | 102 | 102 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 3/9 | 103 | 103 | 104 | 24 | 102 | 102 | 102 | 24 | --- | --- | --- | 0 | 101 | 101 | 102 | 12 | 102 | 102 | 103 | 8 |
| 3/10 | 103 | 104 | 105 | 24 | 102 | 102 | 102 | 24 | --- | --- | --- | 0 | 101 | 101 | 102 | 24 | 102 | 102 | 102 | 24 |
| 3/11 | 105 | 106 | 106 | 24 | 104 | 104 | 104 | 24 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 102 | 103 | 103 | 24 |
| 3/12 | 106 | 106 | 106 | 24 | 105 | 105 | 105 | 24 | --- | --- | --- | 0 | 103 | 103 | 103 | 24 | 103 | 103 | 103 | 24 |
| 3/13 | 105 | 106 | 107 | 24 | 104 | 104 | 104 | 24 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 |
| 3/14 | 105 | 106 | 106 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | 102 | 103 | 103 | 24 |
| 3/15 | 104 | 105 | 105 | 24 | 104 | 104 | 104 | 24 | --- | --- | --- | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 |
| 3/16 | 104 | 105 | 105 | 24 | 104 | 104 | 105 | 24 | --- | --- | --- | 0 | 103 | 103 | 103 | 24 | 103 | 103 | 103 | 24 |
| 3/17 | 105 | 105 | 105 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | 104 | 104 | 104 | 24 | 104 | 104 | 104 | 24 |
| 3/18 | 106 | 106 | 107 | 24 | 105 | 106 | 106 | 24 | --- | --- | --- | 0 | 104 | 105 | 105 | 24 | 104 | 105 | 106 | 24 |

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>The Dalles Dnst</u> | | | <u>Bonneville</u> | | | <u>Warrendale</u> | | | <u>Camas\Washugal</u> | | | # | | | |
|------|------------------------|-------------|-----|-------------------|-------------|-----|-------------------|------------|-----|-----------------------|------------|----|-----|-----|-----|------|
| | <u>24 h</u> | <u>12 h</u> | # | <u>24 h</u> | <u>12 h</u> | # | <u>24h</u> | <u>12h</u> | # | <u>24h</u> | <u>12h</u> | # | | | | |
| | Avg | Avg | | Avg | Avg | | High | Avg | | Avg | High | | | Avg | Avg | High |
| 3/5 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 105 | 105 | 24 | 104 | 104 | 105 | 23 |
| 3/6 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | 103 | 104 | 104 | 23 |
| 3/7 | --- | --- | --- | 0 | --- | --- | --- | 0 | 102 | 103 | 103 | 24 | 103 | 104 | 105 | 23 |
| 3/8 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | 104 | 105 | 106 | 23 |
| 3/9 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 104 | 105 | 105 | 23 |
| 3/10 | 102 | 102 | 102 | 13 | --- | --- | --- | 0 | 103 | 104 | 104 | 24 | 104 | 105 | 106 | 23 |
| 3/11 | 102 | 103 | 103 | 23 | 103 | 103 | 104 | 24 | 104 | 105 | 106 | 24 | 104 | 105 | 106 | 23 |
| 3/12 | 103 | 103 | 103 | 23 | 103 | 104 | 104 | 24 | 106 | 107 | 107 | 24 | 104 | 106 | 106 | 23 |
| 3/13 | 102 | 102 | 103 | 23 | 103 | 103 | 103 | 24 | 106 | 106 | 106 | 24 | 105 | 105 | 106 | 23 |
| 3/14 | 102 | 102 | 103 | 23 | 102 | 102 | 103 | 24 | 106 | 106 | 107 | 24 | 105 | 105 | 106 | 23 |
| 3/15 | 102 | 102 | 102 | 23 | 102 | 102 | 103 | 24 | 105 | 105 | 106 | 24 | 106 | 107 | 108 | 23 |
| 3/16 | 102 | 103 | 103 | 23 | 103 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | 105 | 105 | 106 | 23 |
| 3/17 | 103 | 104 | 104 | 23 | 103 | 104 | 104 | 24 | 104 | 105 | 105 | 24 | 105 | 106 | 107 | 23 |
| 3/18 | 104 | 104 | 105 | 23 | 104 | 104 | 104 | 24 | 104 | 104 | 105 | 24 | 104 | 105 | 106 | 23 |

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 03/05/2004 | --- | 28 | --- | --- | --- | --- | --- | --- | --- | --- | 360 |
| 03/06/2004 * | --- | 10 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/07/2004 | --- | 7 | --- | --- | --- | --- | --- | --- | --- | --- | 273 |
| 03/08/2004 | 0 | 5 | 0 | 0 | --- | --- | --- | --- | --- | --- | 904 |
| 03/09/2004 | 0 | 4 | 1 | 0 | --- | --- | --- | --- | --- | --- | 1,064 |
| 03/10/2004 | 0 | 19 | 5 | 0 | --- | --- | --- | --- | --- | --- | 29 |
| 03/11/2004 | 2 | 72 | 11 | 0 | --- | --- | --- | --- | --- | --- | 409 |
| 03/12/2004 * | 0 | 104 | 7 | 1 | --- | --- | --- | --- | --- | --- | 1,264 |
| 03/13/2004 | --- | 95 | --- | --- | --- | --- | --- | --- | --- | --- | 465 |
| 03/14/2004 | --- | 157 | --- | --- | --- | --- | --- | --- | --- | --- | 239 |
| 03/15/2004 | 71 | 154 | 9 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/16/2004 | 112 | 117 | 8 | 1 | --- | --- | --- | --- | --- | --- | 0 |
| 03/17/2004 | 295 | 118 | 9 | 1 | --- | --- | --- | --- | --- | --- | 226 |
| 03/18/2004 * | 231 | --- | 17 | 2 | --- | --- | --- | --- | --- | --- | 240 |
| 03/19/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 121 |
| Total: | 711 | 890 | 67 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5,594 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Average: | 79 | 68 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 373 |
| YTD | 711 | 958 | 67 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5,594 |

COMBINED SUBYEARLING CHINOOK

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 03/05/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 123,449 |
| 03/06/2004 * | --- | 1 | --- | --- | --- | --- | --- | --- | --- | --- | 26,524 |
| 03/07/2004 | --- | 3 | --- | --- | --- | --- | --- | --- | --- | --- | 4,464 |
| 03/08/2004 | 0 | 4 | 0 | 1 | --- | --- | --- | --- | --- | --- | 6,740 |
| 03/09/2004 | 0 | 1 | 0 | 0 | --- | --- | --- | --- | --- | --- | 3,672 |
| 03/10/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 1,326 |
| 03/11/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 2,310 |
| 03/12/2004 * | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 50,260 |
| 03/13/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 242,411 |
| 03/14/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 52,319 |
| 03/15/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 18,647 |
| 03/16/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 7,230 |
| 03/17/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 7,322 |
| 03/18/2004 * | 0 | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | 4,644 |
| 03/19/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 3,829 |
| Total: | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 555,147 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Average: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37,010 |
| YTD | 0 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 754,595 |

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.

Two-Week Summary of Passage Indices

COMBINED COHO

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 03/05/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 258 |
| 03/06/2004 * | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 97 |
| 03/07/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/08/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 28 |
| 03/09/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 15 |
| 03/10/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/11/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 63 |
| 03/12/2004 * | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 82 |
| 03/13/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 78 |
| 03/14/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/15/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 141 |
| 03/16/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/17/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 52 |
| 03/18/2004 * | 0 | --- | 0 | 1 | --- | --- | --- | --- | --- | --- | 30 |
| 03/19/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 35 |
| Total: | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 879 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| YTD | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 976 |

COMBINED STEELHEAD

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 03/05/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/06/2004 * | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/07/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/08/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/09/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/10/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/11/2004 | 0 | 3 | 0 | 0 | --- | --- | --- | --- | --- | --- | 16 |
| 03/12/2004 * | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/13/2004 | --- | 3 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/14/2004 | --- | 9 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/15/2004 | 0 | 7 | 1 | 1 | --- | --- | --- | --- | --- | --- | 0 |
| 03/16/2004 | 0 | 3 | 2 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/17/2004 | 1 | 0 | 0 | 2 | --- | --- | --- | --- | --- | --- | 0 |
| 03/18/2004 * | 0 | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/19/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 52 |
| Total: | 1 | 25 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Average: | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| YTD | 1 | 26 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |

* See sampling comments

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 03/05/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/06/2004 * | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/07/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/08/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/09/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/10/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/11/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/12/2004 * | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/13/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/14/2004 | --- | 0 | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 03/15/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/16/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/17/2004 | 0 | 0 | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/18/2004 * | 0 | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | 0 |
| 03/19/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| Total: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| YTD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

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

Definitions for Smolt Index Counts

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

IMN (Collection) = Imnaha River Trap : Collection Counts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts

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

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

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

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

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

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

Cumulative Adult Passage at Mainstem Dams Through: 03/17

| DAM | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|----------------|------|-------|------|------------|------|----------------|------|-------|------|------------|------|--------------|------|-------|------|------------|------|
| | 2004 | | 2003 | | 10-Yr Avg. | | 2004 | | 2003 | | 10-Yr Avg. | | 2004 | | 2003 | | 10-Yr Avg. | |
| | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 67 | 0 | 2,512 | 1 | 244 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LWG | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 0 | 0 | 0 | 0 | 0 | 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 |

| DAM | Coho | | | | | | Sockeye | | | Steelhead | | | |
|-----|-------|------|-------|------|------------|------|---------|------|-------|-----------|--------|-------|------|
| | 2004 | | 2003 | | 10-Yr Avg. | | 10-Yr | | 10-Yr | | | Wild | |
| | Adult | Jack | Adult | Jack | Adult | Jack | 2004 | 2003 | Avg. | 2004 | 2003 | Avg. | 2004 |
| BON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 205 | 226 | 126 | 8 |
| TDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LWG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,317 | 10,105 | 2,095 | 501 |
| PRD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 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 |

Only LGR and BON (for traditional dates) is currently being reported by the COE.
BON and LGR are through 03/17.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

Wild steelhead numbers are included in the total.

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: 03/19/04

BON counts from January 1, 2004 to March 14, 2004 (our traditional counts begin March 15)

| Chinook Adult | Chinook Jack | Steelhead | Wild Steelhead |
|---------------|--------------|-----------|----------------|
| 177 | 1 | 1,552 | 245 |

