



Fish Passage Center

Weekly Report #03 - 9

May 16, 2003

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Summary of Events:

Water Supply: Columbia Basin snowpack is currently (May 1, 2003) at 89% of average. At specific Columbia River Sub-basins snowpacks are: 87% at Columbia above Castlegar, 88% above Grand Coulee, and 98% above Ice Harbor. Additionally, the NRCS reports significant snowpack improvements in April over the Columbia mainstem in Canada, the Kettle River, the Snake River Plain, much of eastern Oregon, and the Salmon River.

Most Columbia Basin watersheds have received average precipitation over the first half of May (Table 1). For the water year (October 1, 2002 to May 12, 2003), precipitation in most basins has been near average, with the Central Washington and Clearwater locations receiving the highest yearly totals at 118% and 110% of average, respectively.

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

| Location | May 1-12, 2003 | | Cumulative October, 1 2002 to May 12, 2003 | |
|--------------------------------|-------------------|-----------|--------------------------------------------|-----------|
| | Observed (inches) | % Average | Observed (inches) | % Average |
| Columbia Above Coulee | 0.87 | 100 | 15.53 | 93 |
| SNAKE RIVER Above Ice Harbor | 1.18 | 161 | 12.94 | 104 |
| Columbia Above The Dalles | 0.87 | 114 | 16.29 | 98 |
| Kootenai | 0.74 | 86 | 14.85 | 86 |
| Clark Fork | 1.00 | 126 | 11.28 | 102 |
| Flathead | 0.93 | 99 | 12.91 | 88 |
| Pend Oreille/Spokane | 0.93 | 92 | 23.23 | 99 |
| Central Washington | 0.09 | 30 | 8.11 | 118 |
| SNAKE RIVER Plain | 1.13 | 198 | 6.58 | 85 |
| SALMON/BOISE/PAYETTE | 1.30 | 188 | 15.99 | 106 |
| Clearwater | 1.25 | 107 | 24.80 | 110 |
| SW Washington Cascades/Cowlitz | 1.08 | 73 | 54.71 | 91 |
| Willamette Valley | 1.40 | 102 | 49.79 | 97 |

Table 2 displays the March Final, April, and May Final runoff volume forecasts for multiple reservoirs. Generally, runoff volume forecasts have been steadily rising over the spring. Most basins have increased in excess of 10% of average between the March and May Forecasts. Six of the seven locations presented in the following table had increased water supply forecasts in May relative to that forecasted in April.

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

| Location | March Final | | April Final | | May Final | |
|-----------------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
| | % Average (1971-2000) | Probable Runoff Volume (Kaf) | % Average (1971-2000) | Probable Runoff Volume (Kaf) | % Average (1971-2000) | Probable Runoff Volume (Kaf) |
| The Dalles (Jan-July) | 70 | 74900 | 79 | 85300 | 84 | 90200 |
| Grand Coulee (Jan-July) | 74 | 46300 | 84 | 52900 | 88 | 55500 |
| Libby Res. Inflow, MT (Jan-July) | 70 | 4440 | 79 | 4960 | 82 | 5200 |
| Hungry Horse Res. Inflow, MT (Jan-July) | 66 | 1470 | 81 | 1800 | 85 | 1900 |
| Lower Granite Res. Inflow (Apr- July) | 68 | 14700 | 79 | 17100 | 86 | 18500 |
| Brownlee Res. Inflow (Apr-July) | 49 | 3100 | 53 | 3370 | 56 | 3520 |
| Dworshak Res. Inflow (Apr-July) | 70 | 1860 | 90 | 2390 | 88 | 2330 |

Based on the April Final Forecasts, the following Biological Opinion actions will be targeted in the spring of 2003:

- ◆ Lower Granite: The Spring Flow Objective will be 89.1 Kcfs between April 3rd and June 20th. To date, the average flow at Lower Granite between April 3rd and May 15th, 2003 has been 70.8 Kcfs.
- ◆ McNary: The Spring Flow Objective will be 220 Kcfs between April 10th and June 30th. To date, the average flow at McNary between April 10th and May 15th, 2003 has been 206.5 Kcfs.
- ◆ Priest Rapids: The Spring Flow Objective will be 135 Kcfs between April 10th and June 30th. To date, the average flow at Priest Rapids between April 10th and May 15th, 2003 has been 132.2 Kcfs.

On April 17th, SOR 2003-7 was submitted to the Action Agencies and asked for the Biological Opinion flow objective of 135 Kcfs to be met at Priest Rapids from April 24th through the end of June. This SOR was accepted by the Action Agencies. Outflows at Priest Rapids averaged 139.3 Kcfs April 24-30, 141.5 Kcfs May 1-7, and 142.5 Kcfs May 8-14. At the 5-14-03 TMT meeting, the Fishery Managers asked the Action Agencies to keep weekly averages as close to 135 Kcfs as possible, to ensure that Grand Coulee will refill and the flow objective of 135 Kcfs could be met through June. The Action Agencies agreed to tighten up the flows at Priest Rapids to average very close to 135 kcfs.

Also on the 17th of April, SOR 2003-8 was submitted to the Action Agencies based upon survey reports indicating increased stranding and entrapment of juvenile fall chinook below Priest Rapids Dam. The SOR asks for flow fluctuations to be limited relative to the previous days flow average. The action agencies maintain that Grant County PUD is the responsible party and Grant County has maintained that federal flow control is responsible. No indication of compromise between Grant County PUD and the Action Agencies on the implementation of SOR 2003-8 has been indicated to date. However, since the submittal of SOR 2003-8, flow fluctuations have been moni-

tored and compared to the flow bands indicated in the SOR. The following table displays the actual daily average flow (determines flow band), actual daily flow fluctuations, and the flow band suggested by SOR 2003-8 at Priest Rapids Dam from April 17th to May 14th.

Table 3. Actual daily average flow (determines flow band), actual daily flow fluctuation, and the flow band suggested by SOR 2003-8 at Priest Rapids Dam from April 17th to May 14th.

| Date | Daily Average Flow (Kcfs) | Daily Flow Fluctuation (Kcfs) | Flow Band According to SOR 2003-8 |
|-----------|---------------------------|-------------------------------|-----------------------------------|
| 4-17-2003 | 148.3 | 14.9 | 20 |
| 4-18-2003 | 112.6 | 40.4 | 20 |
| 4-19-2003 | 117.6 | 29.4 | 20 |
| 4-20-2003 | 98.9 | 42.2 | 10 |
| 4-21-2003 | 114.6 | 76.8 | 20 |
| 4-22-2003 | 158.4 | 18.9 | 20 |
| 4-23-2003 | 149.1 | 42.6 | 20 |
| 4-24-2003 | 143.2 | 70.2 | 20 |
| 4-25-2003 | 160.8 | 39.6 | 20 |
| 4-26-2003 | 129.1 | 28.1 | 20 |
| 4-27-2003 | 111.8 | 17.0 | 20 |
| 4-28-2003 | 128.3 | 28.9 | 20 |
| 4-29-2003 | 151.9 | 55.3 | 20 |
| 4-30-2003 | 149.9 | 60.4 | 20 |
| 5-1-2003 | 128.6 | 35.8 | 20 |
| 5-2-2003 | 125.3 | 50.1 | 20 |
| 5-3-2003 | 131.4 | 39.0 | 20 |
| 5-4-2003 | 143.1 | 44.1 | 20 |
| 5-5-2003 | 154.8 | 45.4 | 20 |
| 5-6-2003 | 161.8 | 41.3 | 20 |
| 5-7-2003 | 145.5 | 40.9 | 20 |
| 5-8-2003 | 163.0 | 72.3 | 20 |
| 5-9-2003 | 140.1 | 28.3 | 20 |
| 5-10-2003 | 120.1 | 11.0 | 20 |
| 5-11-2003 | 108.1 | 46.4 | 20 |
| 5-12-2003 | 130.7 | 43.5 | 20 |
| 5-13-2003 | 187.5 | 63.0 | 20 |
| 5-14-2003 | 148.3 | 60.3 | 20 |

From Table 3, the flow bands recommended by SOR 2003-8 at Priest Rapids Dam were met in four of the twenty-eight days since April 17th, 2003.

The Libby Reservoir is currently at an elevation of 2417.5 feet and has been operating to a minimum discharge of 4.0 Kcfs. Inflows to Libby are currently 12.4 Kcfs (5-15-03); over the last week Libby has filled 2.1 feet.

The Hungry Horse Reservoir is currently at an elevation of 3526.3 feet, and has drafted 0.3 feet in the last week.

The Dworshak Reservoir is currently at an elevation of 1562.0 feet and has been releasing approximately 14.7 kcfs of water (9.4 Kcfs through the powerhouse and the rest spill). On April 29, SOR 2003-9 was submitted to the action agencies and requested that Dworshak outflows remain at their current levels (Approximately 14.5-15.5 Kcfs) unless the 89.1 Kcfs flow objective is met at Lower Granite. At the 5-14-03 TMT meeting, the action agencies agreed to implement the SOR for one more week based on the current Water Supply Forecast at Dworshak. TMT will revisit water supply and refill forecasts at Dworshak next week. To date (5-15-03) spring flows at Lower Granite have not reached the objective of 89.1 Kcfs; flows are currently 79.2 Kcfs and rising.

The Grand Coulee Reservoir ended May 15th at an elevation of 1271.4 feet and has drafted 3.4 feet in the last week.

The Brownlee Reservoir was at an elevation of 2073.6 on May 15th, 2003.

The USBR reservoir systems along the Payette and Upper Snake Basins are currently 73% and 61% of capacity.

Spill: Dworshak Dam continued operating at full powerhouse and spilling to the 110% TDG gas cap. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams over the past week averaged slightly lower, with levels of spill at 30%, 27%, 46% and 62% of average daily flow, respectively.

Spill over the past week at McNary, John Day, The Dalles and Bonneville dams decreased over the past week averaging 36%, 28%, 39%, and 54% of average daily flow, respectively.

A few fish have been sampled at Rock Island, Little Goose, and Lower Monumental dams with signs of GBT in their fins. Total dissolved gas levels remain at, or very near, the gas waiver limits.

Smolt Monitoring: At the Snake River tributary traps the numbers of yearling chinook continued to decline over the past week, while steelhead numbers remained steady or increased. The passage indices of yearling chinook at Lower Snake dams remained high this past week, but lower than the previous week. Steelhead passage in the Lower Snake also remains high. In the mid-Columbia the collection of all Spring migrants continued to increase despite diminished trapping at the project due to mechanical problems with the bypass. In the Lower Columbia the numbers of yearling chinook, steelhead, sockeye and coho have again remained relatively high this past week at all SMP sites.

The White Bird Trap collected an average of 25 yearling chinook per day in the seven days from April 25 to May 1 compared to 53 per day the previous week. Steelhead numbers were down this week, with the average daily collection this week at 110 compared to 130 per day last week. At the Imnaha Trap the average daily catch of yearling chinook this week was 66 compared to 80 last week. The numbers of steelhead were very high this week with 1,900 per day average collection compared to 1,300 per day last week. Numbers of yearling chinook captured at the Grande Ronde Trap decreased again this week with a daily average of 16 chinook compared to 44 last week. Steelhead collection remained low as well, at 31 per day this week compared to 14 per day last week. At the Lewiston Trap the collection of yearling chinook was down to 16 per day average, compared to 46 last week, while steelhead collection remained relatively steady at 200 per day this week compared to 217 per day last.

At Lower Granite Dam the average daily passage index for yearling chinook decreased to 77,000 this past week while steelhead increased to 59,000. The yearling chinook index averaged 127,000 last week while steelhead rose from 46,000 last week. Small numbers of sockeye, coho, and subyearling chinook were also captured

this past week. Little Goose and Lower Monumental dams both continued to have relatively large numbers of yearling chinook and steelhead at the projects. At Little Goose the index for yearling chinook averaged 53,000 this week compared to 85,000 last week, while at Lower Monumental the index averaged 15,000 this week compared to 18,000 last. The index for steelhead at Little Goose averaged approximately 19,000 compared to 50,000 last week and at Lower Monumental the index was relatively unchanged at 26,000 compared to 22,700 last week.

The bypass at Rock Island was shut down on May 14 this week while repairs were being made to the seals and guides in slide gates that feed water into the bypass. The system is scheduled to be up and operating next week. Despite operating only a portion of the week, Rock Island Dam has reported a relative increase in yearling chinook, steelhead, sockeye and coho indices this week. The average daily index this week for yearling chinook was 550, for steelhead 330, coho 82 and sockeye was at 740 compared to last week when the indices were at 450, 250, 12 and 200 respectively.

In the Lower Columbia, at McNary, where sampling is carried out every other day, in conjunction with NMFS transportation study that began April 20, the passage index for yearling chinook increased from 95,000 last week to 107,000 this week. Steelhead also indices increased from 4,700 last week to 5,300 this week. The daily average index for subyearling chinook increased from 600 per day last week to 2,300 this week. Sockeye indices remained high but were down to 53,000 this week compared to 71,000 the previous week. At John Day Dam the average daily index for yearling chinook continued to increase rapidly to 50,000 this week compared to 38,500 last week. Steelhead indices were down slightly, with an average of 6,100 this week versus 6,700 last week. Coho indices decreased this week averaging 2,500 this week compared to 2,800 last week. Sockeye numbers increased last week to an average of nearly 12,000 per day compared to just under 8,000 per day last week.

At Bonneville Dam, the average daily index for yearling chinook was at 86,000 this week

compared to 75,000 last week. The steelhead index averaged 20,000 this week compared to 17,600 last week. The indices for coho were up down this week with an average index of 46,000 compared to 57,000 per day last week.

Subyearling chinook daily indices spiked at 255,000 on May 11 after the release of 3.4 million subs, on May 8, from Spring Creek Hatchery. The daily numbers have steadily declined through the week to 18,500 for the sample ending yesterday. Sockeye indices increased rapidly over the past 10 days with the weekly average index this week reaching 23,700.

Below Bonneville Dam, on May 11, approximately 1,400 juvenile salmonids were entrapped in shallow water near Ives Island in an area approximately 675 ft. in length with a maximum width of about 120 ft and a maximum depth of 4 ft. According to PSMFC researchers, a change in the surface level of the Columbia River caused the entrapment of well over 1,400 young salmon. The problem apparently occurs when Bonneville Dam's tailwater level is somewhere between 16.4 and 17 feet. The fish were retrieved on Monday, May 12, and consisted of juvenile chinook, juvenile coho, and coho smolts. On May 14, an additional 600 fish consisting of chinook, coho and threatened chum were retrieved. There was no known fish mortality reported. However, the maximum water measured was at 68°F in the area.

Hatchery Releases - The preliminary hatchery total of juvenile salmonids released above Bonneville Dam for the 2003 migration season will approximate 86.6 million from Columbia River Basin hatcheries. The FPC hatchery release numbers can be obtained from the FPC website. Approximately 8.6 million juvenile salmonids were released or releases were initiated during the past two weeks, with 2.8 million fish scheduled for release in the upcoming two weeks.

Snake River - About 27.5 million smolts will be released in the Snake River Basin from State, Federal, and Tribal hatcheries and acclimation ponds for the 2003 migration year. All yearling spring, summer, and fall chinook have been released from hatcheries, acclimation facilities, or

directly released river systems in Idaho, SE Washington, and NE Oregon.

During fall 2002, approximately 140,000 sockeye were released in the upper Salmon R basin lakes.

About 1.2 million yearling coho salmon were released in the Clearwater River basin for the 2003 migration season.

Releases of juvenile steelhead (9.5 million scheduled) should be completed by the end of next week. Releases occurred throughout the Snake, Salmon, Clearwater, Imnaha, Grande Ronde, and Tucannon River basins for the 2003 migration.

Mid-Columbia River - About 22.1 million yearling and subyearling salmon species will be released in the Mid-Columbia River and its tributaries during the 2003 migration year. The scheduled yearling spring chinook from the acclimation ponds in the Yakima River basin; releases of yearling spring chinook from the upper mid-Columbia are now completed for the spring season.

Yearling summer chinook released from Wells and Eastbank Complex hatcheries have been completed for the season with only the research release groups remaining. Yearling summer chinook were released into the Methow, Wenatchee, and mainstem Mid-Columbia rivers for the 2003 migration.

Subyearling fall and summer chinook are scheduled for release from late May through June. These fish comprise the highest percentage and numbers of juvenile salmon released in the Mid-Columbia River (about 12.5 million scheduled). About 209,000 sockeye were released last fall into Lake Wenatchee; there will be no sockeye releases made into the Okanogan R basin this year. About 1.9 million yearling coho were released in the Yakama River basin, the Wenatchee River basin and the Methow River basin this migration season.

Approximately 1.3 million juvenile steelhead are scheduled for release from mid-April through mid-May. These releases should be completed by next week from the Wells Hatchery complex. Steelhead were released in the Okanogan, Methow, Entiat, Wenatchee, and mainstem Mid-Columbia rivers for the 2003 migration.

Lower Columbia River - The Lower Columbia River Zone is scheduled to release about 36.9 million salmon and steelhead for the 2003 migration. Fish remaining to be released are the upriver bright fall chinook.

Release of yearling spring chinook from State, Tribal and Federal hatcheries is completed for the year. Fish were released in the Klickitat, Umatilla, Deschutes, Hood, Wind, and Little White Salmon rivers with yearling fall chinook released in the Umatilla River basin.

Yearling coho salmon have been released in the Klickitat, Little White Salmon, and Umatilla rivers to date. Klickitat Hatchery should complete volitional release of about 1.0 million yearling coho this week.

Summer steelhead were released in the Klickitat, possibly Little White Salmon (Drano L), Big White Salmon, Umatilla, Deschutes, and Hood rivers this year. Releases should be completed at all the sites. Winter steelhead were released in the Hood River and Big White Salmon River for the 2003 season.

Adult Fish Passage - Most COE projects began counting adult fish on April 1 with the PUD facilities initiating counts on April 15. Counts officially started at Lower Granite Dam on March 1st with Bonneville Dam counts beginning March 15. Adult fish counts at Bonneville Dam recorded by video prior to March 14 are summarized below the Cumulative Adult Table, with adult chinook and steelhead counts exceeding 3,700 and 3,400, respectively.

During the past week, daily counts of adult spring chinook at Bonneville Dam ranged from a high count of 2,378 to a low of 1,219. Through May 15, the cumulative count of adult spring chinook was 166,936, about 70.3% of the 2002 count, and 151% of the 10-year average count. No updates were posted for sampling of adult fish at Bonneville Dam for the week. A couple points of interest at Bonneville Dam: jack counts of spring chinook are now double the year 2002 and 10-year average count through May 15 and, based on PIT tag observations, summer chinook from S. Fork Salmon River and spring/summer chinook from the Imnaha

River basins have been passing the dam in increasing numbers.

Counts of adult spring chinook at The Dalles ranged from 1,100 to 1,800 with the average passage for the week of 1,446 per day, about 400 less per day than the previous week. The cumulative count was 109,144 about 65.4% of the Bonneville count through May 15th. At McNary Dam, 74,495 were counted through May 15 with about 52,500 counted into the Snake River (missing 4/23 and 4/26 counts at Ice Harbor). At Priest Rapids Dam, close to 14,600 adult spring chinook have been tallied through May 14. For the Yakama River, about 2,900 adult chinook have been counted at Prosser Dam through May 12. These three counting sites account for about 70,000 of the 74,500 spring chinook past McNary 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 |
| 05/02/03 | 128.7 | 0.0 | 123.8 | 0.0 | 132.8 | 8.7 | 130.3 | 20.7 | 134.3 | 28.7 | 130.2 | 11.9 | 125.3 | 77.1 |
| 05/03/03 | 113.0 | 0.0 | 110.8 | 0.0 | 115.8 | 8.1 | 114.3 | 17.7 | 120.5 | 24.9 | 125.9 | 12.2 | 131.4 | 74.1 |
| 05/04/03 | 95.7 | 0.0 | 107.5 | 0.0 | 117.7 | 8.5 | 118.6 | 15.4 | 125.8 | 21.2 | 136.0 | 40.6 | 143.1 | 65.9 |
| 05/05/03 | 144.6 | 0.0 | 137.9 | 0.0 | 145.7 | 9.2 | 143.1 | 18.5 | 147.2 | 29.2 | 153.4 | 62.3 | 154.8 | 64.2 |
| 05/06/03 | 125.1 | 0.0 | 127.1 | 0.0 | 137.2 | 8.4 | 133.7 | 17.8 | 140.4 | 27.9 | 157.1 | 59.7 | 161.7 | 84.0 |
| 05/07/03 | 127.7 | 0.0 | 133.7 | 0.0 | 140.2 | 8.2 | 136.6 | 18.9 | 139.8 | 29.2 | 143.4 | 54.6 | 145.5 | 89.8 |
| 05/08/03 | 137.1 | 0.0 | 135.0 | 0.0 | 145.7 | 8.3 | 143.1 | 17.6 | 146.3 | 28.6 | 161.6 | 61.3 | 162.9 | 91.6 |
| 05/09/03 | 108.8 | 0.0 | 117.3 | 0.0 | 128.7 | 8.3 | 127.0 | 33.9 | 129.1 | 28.1 | 135.8 | 51.7 | 140.1 | 72.1 |
| 05/10/03 | 107.2 | 0.2 | 105.3 | 0.0 | 110.7 | 7.7 | 111.1 | 28.7 | 114.8 | 23.8 | 116.7 | 26.2 | 120.1 | 62.9 |
| 05/11/03 | 95.6 | 0.0 | 94.2 | 0.0 | 101.9 | 7.5 | 101.2 | 24.2 | 107.1 | 20.2 | 103.4 | 12.2 | 108.1 | 64.2 |
| 05/12/03 | 140.5 | 0.0 | 136.4 | 0.0 | 139.2 | 14.0 | 133.7 | 35.8 | 133.9 | 29.1 | 134.0 | 13.9 | 130.7 | 53.0 |
| 05/13/03 | 143.7 | 0.0 | 145.5 | 0.0 | 158.8 | 12.6 | 161.0 | 32.0 | 163.7 | 26.7 | 180.9 | 51.7 | 187.5 | 114.6 |
| 05/14/03 | 119.8 | 0.0 | 131.4 | 0.0 | 142.6 | 8.6 | 141.1 | 32.5 | 145.8 | 27.8 | 149.5 | 56.9 | 148.3 | 67.1 |
| 05/15/03 | 136.1 | 0.0 | 135.2 | 0.0 | 141.8 | 9.1 | 140.6 | 35.2 | 144.3 | 29.0 | 158.9 | 59.9 | 163.6 | 70.8 |

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

| Date | Dworshak | | Brownlee Canyon | | Hells Granite | | Lower Granite | | Little Goose | | Lower Monumental | | Ice Harbor | |
|----------|----------|-------|-----------------|---------|---------------|-------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
| | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 05/02/03 | 15.6 | 5.7 | 14.6 | 12.3 | 67.5 | 15.8 | 65.2 | 19.6 | 64.4 | 30.8 | 66.7 | 48.9 | | |
| 05/03/03 | 12.8 | 5.0 | 13.6 | 10.3 | 65.8 | 20.7 | 65.5 | 19.0 | 63.5 | 30.9 | 67.3 | 54.8 | | |
| 05/04/03 | 12.6 | 4.9 | 15.2 | 8.8 | 63.4 | 25.5 | 62.2 | 17.8 | 58.7 | 29.1 | 66.6 | 40.9 | | |
| 05/05/03 | 14.0 | 5.3 | 18.6 | 14.3 | 65.7 | 20.5 | 63.3 | 17.7 | 62.6 | 29.4 | 65.8 | 32.3 | | |
| 05/06/03 | 15.8 | 5.8 | 18.0 | 14.9 | 73.3 | 15.2 | 75.2 | 18.4 | 72.8 | 32.9 | 78.8 | 48.1 | | |
| 05/07/03 | 15.7 | 5.8 | 19.0 | 16.5 | 69.7 | 20.3 | 68.9 | 19.0 | 66.4 | 30.4 | 72.0 | 49.7 | | |
| 05/08/03 | 15.5 | 5.5 | 17.9 | 17.5 | 70.4 | 20.4 | 68.9 | 20.5 | 67.5 | 31.6 | 74.1 | 44.1 | | |
| 05/09/03 | 15.3 | 5.3 | 18.2 | 17.0 | 68.0 | 20.5 | 68.9 | 20.3 | 66.4 | 30.8 | 69.9 | 34.0 | | |
| 05/10/03 | 14.9 | 5.3 | 17.5 | 16.2 | 66.1 | 25.6 | 63.5 | 19.2 | 62.9 | 30.2 | 67.9 | 44.5 | | |
| 05/11/03 | 14.4 | 5.1 | 16.7 | 15.2 | 64.0 | 20.5 | 63.5 | 18.5 | 59.9 | 30.0 | 68.1 | 49.2 | | |
| 05/12/03 | 14.6 | 5.1 | 20.3 | 19.3 | 65.2 | 15.7 | 65.7 | 19.7 | 62.4 | 29.6 | 66.7 | 42.3 | | |
| 05/13/03 | 14.7 | 5.2 | 19.7 | 20.9 | 72.4 | 20.8 | 70.5 | 18.7 | 69.5 | 32.5 | 73.7 | 36.2 | | |
| 05/14/03 | 14.7 | 5.2 | 20.5 | 20.5 | 78.2 | 25.5 | 75.9 | 18.1 | 74.5 | 32.4 | 79.2 | 48.4 | | |
| 05/15/03 | 14.8 | 5.2 | --- | --- | 79.2 | 20.5 | 79.9 | 18.3 | 77.5 | 32.5 | 83.1 | 61.3 | | |

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

| Date | McNary | | John Day | | The Dalles | | Bonneville | | | |
|----------|--------|-------|----------|-------|------------|-------|------------|-------|------|-------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | PH1 | PH2 |
| 05/02/03 | 192.8 | 69.6 | 198.9 | 52.9 | 192.3 | 76.3 | 232.5 | 92.5 | 25.6 | 107.5 |
| 05/03/03 | 201.2 | 68.8 | 195.7 | 60.0 | 198.9 | 77.8 | 227.9 | 87.1 | 22.9 | 107.6 |
| 05/04/03 | 203.0 | 67.7 | 195.7 | 52.9 | 193.1 | 75.3 | 219.6 | 101.8 | 9.7 | 101.0 |
| 05/05/03 | 220.9 | 68.8 | 214.4 | 47.8 | 220.0 | 84.3 | 225.0 | 111.2 | 5.3 | 101.8 |
| 05/06/03 | 218.3 | 76.6 | 230.2 | 52.5 | 222.1 | 84.4 | 258.1 | 94.2 | 42.2 | 115.1 |
| 05/07/03 | 230.8 | 76.1 | 237.6 | 52.5 | 247.0 | 95.8 | 273.1 | 97.5 | 56.5 | 112.4 |
| 05/08/03 | 224.6 | 84.2 | 210.4 | 53.2 | 196.8 | 79.3 | 226.8 | 100.0 | 19.5 | 100.7 |
| 05/09/03 | 224.1 | 73.9 | 231.3 | 70.9 | 236.0 | 91.6 | 257.5 | 103.1 | 44.1 | 103.6 |
| 05/10/03 | 201.0 | 68.2 | 216.6 | 52.4 | 218.6 | 84.8 | 230.9 | 155.8 | 0.0 | 68.4 |
| 05/11/03 | 180.2 | 65.1 | 169.6 | 39.2 | 168.6 | 67.0 | 212.9 | 148.5 | 0.0 | 57.7 |
| 05/12/03 | 189.8 | 69.1 | 198.9 | 51.0 | 200.3 | 78.3 | 217.2 | 95.6 | 24.9 | 90.0 |
| 05/13/03 | 218.0 | 79.9 | 201.3 | 66.4 | 196.2 | 77.5 | 218.0 | 99.4 | 14.6 | 97.3 |
| 05/14/03 | 256.5 | 102.7 | 265.0 | 72.3 | 260.4 | 100.1 | 259.0 | 143.8 | 16.4 | 92.0 |
| 05/15/03 | 201.8 | 73.3 | 218.2 | 64.8 | 218.8 | 85.3 | 254.6 | 142.2 | 8.0 | 97.4 |

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 | | | | Fish with L. Line GBT | |
|-----------------------------|----------|---------------------|----------------|--------------------|--------------------|-----------|------------------|----------------------------------------------------|--------|--------|--------|-----------------------|-----------|
| | | | | | | | | Rank 1 | Rank 2 | Rank 3 | Rank 4 | Num Fish | Avg. Rank |
| Lower Granite Dam | | | | | | | | | | | | | |
| | 05/06/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/13/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| Little Goose Dam | | | | | | | | | | | | | |
| | 05/07/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/14/03 | Chinook + Steelhead | 100 | 1 | 1 | 1.00% | 0.00% | 0 | 1 | 0 | 0 | | |
| Lower Monumental Dam | | | | | | | | | | | | | |
| | 05/12/03 | Chinook + Steelhead | 100 | 2 | 2 | 2.00% | 0.00% | 2 | 0 | 0 | 0 | | |
| McNary Dam | | | | | | | | | | | | | |
| | 05/08/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/12/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| Bonneville Dam | | | | | | | | | | | | | |
| | 05/08/03 | Chinook + Steelhead | 102 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/12/03 | Chinook + Steelhead | 31 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/16/03 | Chinook + Steelhead | 91 | 1 | 0 | 1.10% | 0.00% | 0 | 0 | 0 | 0 | | |
| Rock Island Dam | | | | | | | | | | | | | |
| | 05/08/03 | Chinook + Steelhead | 100 | 0 | 0 | 0.00% | 0.00% | 0 | 0 | 0 | 0 | | |
| | 05/12/03 | Chinook + Steelhead | 100 | 2 | 2 | 2.00% | 0.00% | 2 | 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 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> | # | <u>24 h</u> | <u>12 h</u> | # | | |
| | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg |
| 5/2 | 100 | 101 | 101 | 24 | 122 | 125 | 130 | 24 | 110 | 110 | 111 | 24 | 106 | 107 | 108 | 24 | 106 | 107 | 108 | 23 |
| 5/3 | 101 | 101 | 102 | 24 | 127 | 130 | 131 | 24 | 110 | 110 | 111 | 24 | 107 | 108 | 109 | 24 | 107 | 108 | 108 | 23 |
| 5/4 | 101 | 101 | 101 | 24 | 123 | 127 | 129 | 24 | 110 | 110 | 110 | 24 | 107 | 107 | 107 | 24 | 107 | 107 | 107 | 23 |
| 5/5 | 99 | 100 | 100 | 24 | 127 | 130 | 131 | 24 | 108 | 109 | 110 | 24 | 106 | 106 | 107 | 24 | 106 | 106 | 107 | 23 |
| 5/6 | 99 | 99 | 99 | 24 | 127 | 129 | 130 | 24 | 108 | 108 | 108 | 24 | 106 | 106 | 107 | 24 | 106 | 106 | 107 | 23 |
| 5/7 | 99 | 99 | 99 | 24 | 126 | 128 | 128 | 24 | 108 | 108 | 109 | 24 | 106 | 107 | 107 | 24 | 106 | 106 | 107 | 22 |
| 5/8 | 99 | 99 | 100 | 24 | 121 | 125 | 130 | 24 | 108 | 108 | 109 | 24 | 106 | 107 | 107 | 24 | 106 | 106 | 107 | 23 |
| 5/9 | 99 | 99 | 99 | 24 | 117 | 120 | 121 | 24 | 108 | 108 | 108 | 24 | 106 | 106 | 107 | 24 | 106 | 106 | 107 | 23 |
| 5/10 | 98 | 98 | 98 | 24 | 117 | 120 | 121 | 24 | 107 | 108 | 108 | 24 | 106 | 106 | 107 | 24 | 106 | 107 | 107 | 23 |
| 5/11 | 98 | 99 | 99 | 24 | 117 | 121 | 121 | 24 | 108 | 108 | 108 | 24 | 107 | 107 | 108 | 24 | 106 | 107 | 107 | 23 |
| 5/12 | 98 | 99 | 99 | 24 | 118 | 121 | 121 | 24 | 108 | 108 | 109 | 24 | 107 | 107 | 108 | 24 | 107 | 107 | 108 | 23 |
| 5/13 | 98 | 98 | 99 | 24 | 117 | 121 | 122 | 24 | 109 | 110 | 111 | 24 | 107 | 107 | 108 | 24 | 107 | 107 | 108 | 23 |
| 5/14 | 98 | 99 | 100 | 24 | 119 | 122 | 122 | 24 | 111 | 111 | 111 | 24 | 108 | 109 | 109 | 24 | 107 | 108 | 108 | 23 |
| 5/15 | 98 | 99 | 99 | 24 | 119 | 121 | 121 | 24 | 109 | 109 | 110 | 24 | 107 | 108 | 109 | 24 | 107 | 107 | 108 | 23 |

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> | # | <u>24 h</u> | <u>12 h</u> | # | | |
| | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg |
| 5/2 | 106 | 107 | 107 | 23 | 107 | 108 | 108 | 22 | 109 | 110 | 110 | 22 | 109 | 110 | 110 | 23 | 110 | 111 | 112 | 21 |
| 5/3 | 107 | 107 | 108 | 23 | 108 | 108 | 108 | 24 | 109 | 110 | 110 | 24 | 110 | 110 | 110 | 23 | 111 | 111 | 112 | 23 |
| 5/4 | 106 | 107 | 107 | 23 | 107 | 107 | 108 | 23 | 109 | 109 | 109 | 23 | 109 | 109 | 109 | 22 | 110 | 110 | 111 | 21 |
| 5/5 | 106 | 106 | 106 | 23 | 106 | 106 | 107 | 24 | 108 | 108 | 109 | 24 | 107 | 108 | 108 | 22 | 109 | 109 | 109 | 21 |
| 5/6 | 105 | 106 | 106 | 23 | 106 | 107 | 107 | 22 | 108 | 108 | 109 | 22 | 108 | 108 | 108 | 23 | 109 | 109 | 110 | 22 |
| 5/7 | 106 | 106 | 107 | 22 | 107 | 107 | 107 | 24 | 108 | 109 | 109 | 24 | 108 | 108 | 108 | 22 | 109 | 110 | 110 | 19 |
| 5/8 | 106 | 106 | 106 | 23 | 106 | 107 | 107 | 22 | 108 | 108 | 109 | 22 | 108 | 108 | 108 | 23 | 109 | 109 | 110 | 22 |
| 5/9 | 106 | 106 | 106 | 23 | 106 | 106 | 107 | 24 | 108 | 108 | 108 | 24 | 107 | 108 | 108 | 23 | 109 | 109 | 111 | 23 |
| 5/10 | 105 | 106 | 107 | 23 | 106 | 107 | 108 | 24 | 108 | 108 | 109 | 24 | 107 | 107 | 107 | 22 | 109 | 109 | 109 | 22 |
| 5/11 | 106 | 106 | 107 | 23 | 107 | 108 | 110 | 23 | 109 | 109 | 110 | 23 | 107 | 107 | 107 | 23 | 109 | 109 | 109 | 23 |
| 5/12 | 106 | 107 | 107 | 23 | 107 | 107 | 108 | 24 | 110 | 111 | 122 | 24 | 108 | 109 | 109 | 23 | 111 | 112 | 113 | 22 |
| 5/13 | 106 | 107 | 107 | 23 | 107 | 107 | 107 | 19 | 111 | 113 | 125 | 19 | 109 | 109 | 110 | 24 | 111 | 112 | 113 | 23 |
| 5/14 | 107 | 107 | 108 | 23 | 108 | 108 | 108 | 24 | 109 | 110 | 110 | 24 | 112 | 113 | 115 | 23 | 114 | 115 | 116 | 22 |
| 5/15 | 107 | 107 | 107 | 23 | 106 | 107 | 107 | 24 | 108 | 108 | 109 | 24 | 108 | 109 | 109 | 23 | 111 | 112 | 113 | 23 |

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> | # | <u>24 h</u> | <u>12 h</u> | # | | |
| | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg | | High | hr | | Avg | Avg |
| 5/2 | 110 | 111 | 111 | 24 | 118 | 120 | 123 | 24 | 112 | 114 | 115 | 24 | 115 | 116 | 116 | 24 | 114 | 115 | 116 | 24 |
| 5/3 | 111 | 111 | 111 | 23 | 117 | 119 | 121 | 23 | 113 | 113 | 115 | 24 | 116 | 116 | 117 | 24 | 115 | 116 | 116 | 24 |
| 5/4 | --- | --- | --- | 0 | 115 | 116 | 119 | 21 | 112 | 112 | 113 | 24 | 117 | 119 | 120 | 24 | 115 | 116 | 116 | 24 |
| 5/5 | 108 | 109 | 109 | 21 | 117 | 120 | 124 | 21 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 5/6 | 109 | 109 | 110 | 23 | 117 | 119 | 123 | 23 | 110 | 111 | 111 | 24 | 117 | 117 | 118 | 24 | 116 | 117 | 117 | 22 |
| 5/7 | 109 | 109 | 110 | 21 | 117 | 119 | 124 | 21 | 110 | 110 | 111 | 18 | 117 | 117 | 118 | 24 | 113 | 114 | 115 | 24 |
| 5/8 | 109 | 109 | 110 | 22 | 117 | 119 | 123 | 21 | 111 | 112 | 113 | 24 | 116 | 117 | 118 | 24 | 115 | 115 | 116 | 11 |
| 5/9 | 109 | 109 | 109 | 24 | 115 | 116 | 123 | 22 | 110 | 111 | 114 | 24 | 116 | 116 | 117 | 24 | 112 | 112 | 115 | 12 |
| 5/10 | 109 | 109 | 109 | 22 | 113 | 113 | 113 | 21 | 111 | 113 | 116 | 24 | 115 | 116 | 126 | 24 | --- | --- | --- | 0 |
| 5/11 | 109 | 109 | 109 | 24 | 113 | 113 | 113 | 24 | 112 | 113 | 114 | 24 | 114 | 115 | 115 | 24 | --- | --- | --- | 0 |
| 5/12 | 110 | 111 | 111 | 24 | 117 | 120 | 123 | 24 | 112 | 112 | 113 | 24 | 115 | 115 | 115 | 9 | --- | --- | --- | 0 |
| 5/13 | 111 | 112 | 112 | 23 | 117 | 119 | 124 | 23 | 111 | 112 | 112 | 24 | 117 | 118 | 119 | 24 | --- | --- | --- | 0 |
| 5/14 | 113 | 114 | 115 | 22 | 120 | 121 | 125 | 21 | 113 | 113 | 114 | 24 | 119 | 119 | 120 | 24 | 117 | 117 | 118 | 8 |
| 5/15 | 111 | 112 | 113 | 22 | 118 | 119 | 122 | 22 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 |

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

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

| Date | <u>Priest R. Dnst</u> | | | <u>Pasco</u> | | | <u>Dworshak</u> | | | <u>Clrwtr-Peck</u> | | | <u>Anatone</u> | | | | | | | |
|------|-----------------------|-------------|-------------|--------------|-------------|-------------|-----------------|----------|-------------|--------------------|-------------|----------|----------------|-------------|-------------|----------|-------------|-------------|-------------|----------|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> |
| | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | |
| 5/2 | 119 | 119 | 120 | 24 | 116 | 117 | 118 | 24 | 109 | 109 | 109 | 24 | 104 | 105 | 105 | 24 | 103 | 104 | 105 | 24 |
| 5/3 | 118 | 120 | 120 | 24 | 113 | 114 | 115 | 24 | 109 | 109 | 109 | 24 | 104 | 104 | 105 | 24 | 102 | 102 | 102 | 24 |
| 5/4 | 116 | 117 | 117 | 24 | 110 | 111 | 111 | 24 | 108 | 109 | 109 | 24 | 103 | 103 | 104 | 24 | 102 | 102 | 103 | 24 |
| 5/5 | --- | --- | --- | 0 | 110 | 111 | 114 | 21 | 108 | 109 | 109 | 24 | 103 | 104 | 105 | 24 | 102 | 103 | 103 | 24 |
| 5/6 | 117 | 117 | 117 | 10 | 113 | 114 | 114 | 24 | 109 | 109 | 109 | 24 | 104 | 104 | 105 | 24 | 102 | 103 | 103 | 24 |
| 5/7 | --- | --- | --- | 0 | 114 | 116 | 116 | 24 | 109 | 109 | 110 | 24 | 104 | 105 | 106 | 24 | 102 | 103 | 104 | 24 |
| 5/8 | 120 | 120 | 121 | 10 | 115 | 116 | 116 | 24 | 109 | 109 | 110 | 24 | 104 | 105 | 106 | 24 | 103 | 104 | 104 | 24 |
| 5/9 | 118 | 119 | 120 | 24 | 114 | 115 | 116 | 21 | 108 | 108 | 108 | 24 | 104 | 104 | 105 | 24 | 102 | 103 | 103 | 23 |
| 5/10 | 117 | 117 | 117 | 24 | 113 | 114 | 114 | 24 | 107 | 107 | 108 | 23 | 104 | 105 | 105 | 23 | 103 | 104 | 104 | 24 |
| 5/11 | 117 | 117 | 118 | 24 | 113 | 114 | 114 | 24 | 108 | 108 | 109 | 24 | 104 | 104 | 105 | 24 | 102 | 103 | 104 | 24 |
| 5/12 | 115 | 116 | 117 | 17 | 112 | 113 | 113 | 24 | 108 | 108 | 108 | 24 | 103 | 104 | 104 | 24 | 102 | 102 | 103 | 24 |
| 5/13 | 117 | 117 | 117 | 15 | 113 | 115 | 116 | 24 | 108 | 109 | 109 | 24 | 104 | 105 | 106 | 24 | 103 | 104 | 105 | 24 |
| 5/14 | 116 | 116 | 117 | 24 | 115 | 116 | 116 | 24 | 109 | 109 | 109 | 24 | 104 | 105 | 106 | 24 | 103 | 104 | 105 | 24 |
| 5/15 | --- | --- | --- | 0 | 113 | 113 | 114 | 24 | 108 | 108 | 109 | 24 | 103 | 103 | 104 | 24 | 102 | 102 | 103 | 24 |

Total Dissolved Gas Saturation Data at Snake River Sites

| Date | <u>Clrwtr-Lewiston</u> | | | <u>Lower Granite</u> | | | <u>L. Granite Tlwr</u> | | | <u>Little Goose</u> | | | <u>L. Goose Tlwr</u> | | | | | | | |
|------|------------------------|-------------|-------------|----------------------|-------------|-------------|------------------------|----------|-------------|---------------------|-------------|----------|----------------------|-------------|-------------|----------|-------------|-------------|-------------|----------|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> |
| | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | |
| 5/2 | 103 | 105 | 105 | 24 | 105 | 106 | 108 | 24 | 110 | 115 | 120 | 24 | 110 | 110 | 111 | 24 | 114 | 117 | 118 | 24 |
| 5/3 | 102 | 103 | 103 | 24 | 104 | 104 | 105 | 24 | 112 | 119 | 121 | 24 | 110 | 111 | 111 | 24 | 113 | 116 | 117 | 24 |
| 5/4 | 102 | 103 | 105 | 24 | 103 | 104 | 104 | 24 | 113 | 115 | 119 | 24 | 109 | 110 | 110 | 24 | 113 | 116 | 116 | 24 |
| 5/5 | 102 | 103 | 104 | 24 | 102 | 102 | 103 | 24 | 110 | 110 | 112 | 24 | 107 | 107 | 108 | 24 | 111 | 115 | 116 | 24 |
| 5/6 | 103 | 104 | 104 | 24 | 101 | 102 | 102 | 24 | 108 | 113 | 119 | 24 | 107 | 107 | 108 | 24 | 111 | 115 | 116 | 24 |
| 5/7 | 103 | 105 | 106 | 24 | 102 | 103 | 103 | 24 | 111 | 118 | 119 | 24 | 108 | 108 | 108 | 24 | 112 | 116 | 117 | 24 |
| 5/8 | 104 | 105 | 106 | 24 | 103 | 103 | 105 | 24 | 111 | 118 | 119 | 24 | 108 | 109 | 109 | 24 | 113 | 117 | 117 | 24 |
| 5/9 | 103 | 104 | 105 | 24 | 103 | 103 | 104 | 23 | 111 | 118 | 119 | 24 | 107 | 108 | 110 | 23 | 112 | 116 | 118 | 23 |
| 5/10 | 103 | 105 | 106 | 23 | 103 | 103 | 104 | 24 | 112 | 115 | 119 | 24 | 108 | 109 | 109 | 24 | 112 | 116 | 117 | 24 |
| 5/11 | 103 | 104 | 105 | 24 | 104 | 104 | 106 | 24 | 110 | 111 | 112 | 24 | 109 | 110 | 110 | 24 | 112 | 115 | 117 | 24 |
| 5/12 | 102 | 103 | 104 | 24 | 103 | 104 | 104 | 24 | 109 | 114 | 120 | 24 | 109 | 110 | 110 | 24 | 113 | 116 | 117 | 24 |
| 5/13 | 103 | 105 | 107 | 24 | 104 | 105 | 107 | 24 | 111 | 119 | 120 | 24 | 111 | 112 | 113 | 24 | 113 | 116 | 117 | 24 |
| 5/14 | 104 | 105 | 107 | 24 | 104 | 104 | 105 | 24 | 112 | 114 | 119 | 24 | 111 | 112 | 112 | 24 | 113 | 116 | 116 | 24 |
| 5/15 | 102 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | 109 | 110 | 110 | 24 | 109 | 109 | 109 | 24 | 112 | 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> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> | <u>24 h</u> | <u>12 h</u> | <u>High</u> | <u>#</u> |
| | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | | <u>Avg</u> | <u>Avg</u> | | |
| 5/2 | 112 | 113 | 114 | 24 | 118 | 120 | 121 | 24 | 115 | 116 | 116 | 24 | 113 | 114 | 117 | 24 | 115 | 117 | 119 | 24 |
| 5/3 | 114 | 115 | 116 | 24 | 118 | 118 | 120 | 24 | 116 | 116 | 116 | 24 | 114 | 114 | 117 | 24 | 114 | 114 | 115 | 24 |
| 5/4 | 113 | 114 | 115 | 24 | 117 | 118 | 118 | 24 | 114 | 115 | 115 | 24 | 112 | 113 | 115 | 24 | 113 | 113 | 114 | 24 |
| 5/5 | 110 | 111 | 112 | 24 | 117 | 117 | 118 | 24 | 110 | 111 | 112 | 24 | 111 | 112 | 113 | 24 | 108 | 109 | 110 | 24 |
| 5/6 | 110 | 111 | 111 | 24 | 118 | 118 | 120 | 24 | 110 | 111 | 111 | 24 | 113 | 114 | 114 | 24 | 108 | 108 | 109 | 24 |
| 5/7 | 110 | 111 | 112 | 24 | 117 | 118 | 118 | 24 | 113 | 114 | 114 | 24 | 114 | 114 | 116 | 24 | 109 | 111 | 112 | 24 |
| 5/8 | 111 | 112 | 113 | 24 | 118 | 119 | 119 | 24 | 115 | 116 | 117 | 24 | 113 | 114 | 114 | 24 | 111 | 113 | 115 | 24 |
| 5/9 | 112 | 113 | 114 | 24 | 118 | 119 | 120 | 24 | 115 | 116 | 118 | 24 | 112 | 113 | 114 | 24 | 112 | 113 | 115 | 24 |
| 5/10 | 111 | 112 | 113 | 24 | 118 | 119 | 120 | 24 | 114 | 115 | 117 | 24 | 113 | 114 | 114 | 24 | 112 | 113 | 115 | 24 |
| 5/11 | 112 | 114 | 115 | 24 | 118 | 119 | 121 | 24 | 115 | 115 | 115 | 24 | 113 | 114 | 114 | 24 | 113 | 114 | 115 | 24 |
| 5/12 | 113 | 114 | 115 | 24 | 117 | 118 | 119 | 24 | 115 | 115 | 116 | 24 | 113 | 114 | 115 | 24 | 113 | 114 | 116 | 24 |
| 5/13 | 112 | 113 | 114 | 24 | 118 | 119 | 120 | 24 | 116 | 118 | 121 | 24 | 112 | 113 | 115 | 24 | 113 | 115 | 118 | 24 |
| 5/14 | 114 | 115 | 116 | 24 | 119 | 120 | 120 | 24 | 116 | 116 | 117 | 24 | 114 | 114 | 115 | 24 | 112 | 112 | 113 | 24 |
| 5/15 | 114 | 114 | 116 | 24 | 118 | 119 | 120 | 24 | 115 | 115 | 116 | 24 | 114 | 115 | 118 | 24 | 111 | 111 | 112 | 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>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24h</u> | <u>12h</u> | <u>High</u> | | <u>24h</u> | <u>12h</u> | <u>High</u> | | <u>24h</u> | <u>12h</u> | <u>High</u> | |
| 5/2 | 115 | 116 | 116 | 24 | 117 | 119 | 120 | 24 | 114 | 115 | 116 | 23 | 116 | 118 | 119 | 24 | 112 | 114 | 115 | 23 |
| 5/3 | 116 | 116 | 116 | 24 | 117 | 119 | 119 | 24 | 114 | 114 | 115 | 23 | 116 | 118 | 119 | 24 | 113 | 113 | 114 | 23 |
| 5/4 | 113 | 114 | 115 | 24 | 116 | 119 | 119 | 24 | 112 | 113 | 113 | 23 | 115 | 117 | 118 | 24 | 112 | 113 | 114 | 23 |
| 5/5 | 108 | 109 | 110 | 24 | 114 | 118 | 119 | 22 | 110 | 110 | 111 | 23 | 114 | 118 | 119 | 24 | 110 | 111 | 113 | 23 |
| 5/6 | 107 | 108 | 108 | 24 | 114 | 119 | 120 | 24 | 110 | 110 | 110 | 23 | 114 | 118 | 119 | 24 | 110 | 112 | 113 | 23 |
| 5/7 | 109 | 110 | 111 | 24 | 114 | 120 | 120 | 24 | 109 | 109 | 109 | 23 | 113 | 118 | 119 | 24 | 110 | 111 | 112 | 23 |
| 5/8 | 112 | 113 | 114 | 24 | 116 | 120 | 121 | 24 | 108 | 108 | 109 | 23 | 113 | 118 | 119 | 24 | 108 | 110 | 111 | 23 |
| 5/9 | 113 | 114 | 114 | 24 | 116 | 120 | 120 | 24 | 107 | 107 | 107 | 23 | 113 | 118 | 119 | 24 | 109 | 111 | 113 | 23 |
| 5/10 | 114 | 115 | 116 | 24 | 115 | 119 | 120 | 24 | 108 | 109 | 110 | 23 | 113 | 117 | 118 | 24 | 109 | 113 | 114 | 23 |
| 5/11 | 114 | 114 | 115 | 24 | 116 | 118 | 119 | 24 | 109 | 109 | 110 | 23 | 113 | 117 | 119 | 24 | 109 | 110 | 112 | 23 |
| 5/12 | 114 | 115 | 116 | 24 | 116 | 119 | 120 | 24 | 109 | 110 | 110 | 23 | 113 | 118 | 119 | 24 | 110 | 111 | 112 | 23 |
| 5/13 | 113 | 115 | 118 | 24 | 116 | 120 | 121 | 24 | 112 | 114 | 116 | 23 | 114 | 117 | 118 | 24 | 111 | 113 | 116 | 23 |
| 5/14 | 113 | 113 | 115 | 24 | 118 | 121 | 121 | 24 | 113 | 113 | 114 | 23 | 115 | 119 | 120 | 24 | 113 | 115 | 116 | 23 |
| 5/15 | 111 | 111 | 112 | 24 | 115 | 120 | 120 | 24 | 112 | 113 | 113 | 23 | 115 | 118 | 120 | 24 | 111 | 112 | 113 | 23 |

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

| Date | <u>The Dalles Dnst</u> | | | # | <u>Bonneville</u> | | | # | <u>Warrendale</u> | | | # | <u>CamasWashugal</u> | | | # |
|------|------------------------|-------------|-------------|----|-------------------|-------------|-------------|----|-------------------|------------|-------------|----|----------------------|------------|-------------|----|
| | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24 h</u> | <u>12 h</u> | <u>High</u> | | <u>24h</u> | <u>12h</u> | <u>High</u> | | <u>24h</u> | <u>12h</u> | <u>High</u> | |
| 5/2 | 117 | 118 | 118 | 24 | 116 | 116 | 116 | 23 | 116 | 116 | 117 | 23 | 116 | 117 | 118 | 24 |
| 5/3 | 117 | 117 | 118 | 24 | 114 | 115 | 115 | 20 | 114 | 115 | 116 | 23 | 113 | 114 | 115 | 24 |
| 5/4 | 116 | 116 | 117 | 24 | 111 | 112 | 112 | 23 | 113 | 114 | 114 | 23 | 111 | 111 | 112 | 24 |
| 5/5 | 115 | 116 | 117 | 24 | 111 | 111 | 111 | 23 | 114 | 115 | 115 | 23 | 111 | 112 | 113 | 24 |
| 5/6 | 116 | 117 | 117 | 24 | 112 | 113 | 114 | 23 | 114 | 114 | 115 | 23 | 113 | 114 | 115 | 24 |
| 5/7 | 116 | 117 | 117 | 24 | 112 | 113 | 113 | 22 | 113 | 115 | 117 | 23 | 112 | 114 | 114 | 24 |
| 5/8 | 115 | 115 | 116 | 24 | 111 | 112 | 113 | 22 | 114 | 115 | 117 | 23 | 112 | 113 | 115 | 24 |
| 5/9 | 115 | 116 | 117 | 24 | 108 | 109 | 109 | 16 | 112 | 115 | 117 | 23 | 110 | 112 | 113 | 24 |
| 5/10 | 115 | 117 | 119 | 24 | 109 | 109 | 110 | 23 | 117 | 118 | 118 | 23 | 111 | 115 | 116 | 24 |
| 5/11 | 115 | 116 | 118 | 24 | 111 | 112 | 112 | 23 | 118 | 119 | 119 | 23 | 115 | 117 | 117 | 24 |
| 5/12 | 115 | 116 | 116 | 24 | 111 | 112 | 113 | 23 | 114 | 115 | 117 | 23 | 114 | 115 | 116 | 24 |
| 5/13 | 116 | 117 | 119 | 24 | 111 | 112 | 113 | 23 | 114 | 116 | 118 | 23 | 114 | 116 | 118 | 24 |
| 5/14 | 118 | 118 | 119 | 24 | 113 | 113 | 114 | 23 | 117 | 118 | 118 | 23 | 113 | 115 | 116 | 24 |
| 5/15 | 116 | 117 | 117 | 24 | 111 | 111 | 112 | 23 | 116 | 117 | 118 | 23 | 112 | 113 | 113 | 24 |

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary

From: **5/2/03** to **5/15/03**

| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
|----------------------------------------------------|--------------------------|---------|------|-------|------------------|----------|----------|-----------------------------|-----------------------|
| Idaho Dept. of Fish and Wildlife | Niagara Springs | ST | SU | 2003 | 185,231 | 05-02-03 | 05-06-03 | Little Salmon River | Salmon River (ID) |
| Idaho Dept. of Fish and Wildlife Total | | | | | 185,231 | | | | |
| Nez Perce Tribe | Hagerman NFH | ST | SU | 2003 | 88,093 | 05-05-03 | 05-09-03 | Newsome Creek | S Fk Clearwater River |
| Nez Perce Tribe | Hagerman NFH | ST | SU | 2003 | 102,040 | 04-30-03 | 05-05-03 | American River | S Fk Clearwater River |
| Nez Perce Tribe Total | | | | | 190,133 | | | | |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 3,000 | 05-03-03 | 05-04-03 | Deer Creek | Grande Ronde River |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 76,500 | 05-07-03 | 05-08-03 | L Sheep Acclim Pond | Imnaha River |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 130,500 | 05-08-03 | 05-23-03 | Big Canyon Acclim.Pd (G.R.) | Grande Ronde River |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 217,000 | 05-07-03 | 05-22-03 | Wallowa Acclim Pond | Wallowa River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 427,000 | | | | |
| Shoshone-Bannock Tribe | Hagerman NFH | ST | SU | 2003 | 131,659 | 05-12-03 | 05-14-03 | Yankee Fk Pond | Salmon River (ID) |
| Shoshone-Bannock Tribe Total | | | | | 131,659 | | | | |
| U.S. Fish and Wildlife Service | Spring Creek NFH | CH0 | FA | 2003 | 3,370,867 | 05-08-03 | 05-08-03 | Spring Creek Hatchery | L Col R(D/s McN Dam) |
| U.S. Fish and Wildlife Service Total | | | | | 3,370,867 | | | | |
| Washington Dept. of Fish and Wildlife | Klickitat Hatchery | CO | NO | 2003 | 1,000,000 | 05-12-03 | 05-23-03 | Klickitat Hatchery | Klickitat River |
| Washington Dept. of Fish and Wildlife | Skamania Hatchery | ST | SU | 2003 | 15,000 | 05-01-03 | 05-10-03 | Drano Lake | Little White Salmon R |
| Washington Dept. of Fish and Wildlife | Skamania Hatchery | ST | SU | 2003 | 100,000 | 05-01-03 | 05-10-03 | Klickitat River | Klickitat River |
| Washington Dept. of Fish and Wildlife | Turtle Rock Hatchery | CH1 | SU | 2003 | 120,000 | 04-13-03 | 05-23-03 | Above Rocky Reach Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | CH1 | SU | 2003 | 121,000 | 04-07-03 | 05-30-03 | Bel. Priest Rapids Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 57,095 | 04-21-03 | 05-16-03 | Okanogan River | Okanogan River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 57,095 | 04-21-03 | 05-16-03 | Similkameen Acclim Pd | Okanogan River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 105,890 | 04-15-03 | 05-16-03 | Twisp Acclim Pond | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 107,055 | 04-21-03 | 05-16-03 | Chewuch River | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 107,055 | 04-21-03 | 05-16-03 | Methow River | Methow River |
| Washington Dept. of Fish and Wildlife Total | | | | | 1,790,190 | | | | |
| Yakama Tribe | Cascade Hatchery | CO | UN | 2003 | 75,027 | 04-23-03 | 05-02-03 | Wenatchee River | Wenatchee River |
| Yakama Tribe | Cascade Hatchery | CO | UN | 2003 | 272,755 | 04-23-03 | 05-02-03 | Nason Creek | Wenatchee River |
| Yakama Tribe | Cascade Hatchery | CO | UN | 2003 | 453,098 | 04-23-03 | 05-02-03 | Icicle Creek | Wenatchee River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2003 | 81,113 | 03-14-03 | 05-15-03 | Clark Flat Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CH1 | SP | 2003 | 250,852 | 03-14-03 | 05-15-03 | Jack Creek Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CO | UN | 2003 | 82,525 | 04-07-03 | 05-07-03 | Yakama River | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CO | UN | 2003 | 180,761 | 04-07-03 | 05-07-03 | Lost Creek Acclim Pond | Yakama River |
| Yakama Tribe | Cle Elem Hatchery | CO | UN | 2003 | 262,046 | 04-07-03 | 05-07-03 | Easton Pond | Yakama River |
| Yakama Tribe | Klickitat Hatchery | CH0 | SP | 2003 | 300,000 | 05-06-03 | 05-07-03 | Klickitat River | Klickitat River |
| Yakama Tribe | Prosser Acclim. Pond | CH0 | FA | 2003 | 320,000 | 05-05-03 | 05-20-03 | Prosser Acclim Pond | Yakama River |
| Yakama Tribe | Stiles Pond | CO | UN | 2003 | 169,629 | 04-07-03 | 05-07-03 | Yakama River | Yakama River |
| Yakama Tribe | Willard Hatchery | CO | UN | 2003 | 37,483 | 04-23-03 | 05-02-03 | Wenatchee River | Wenatchee River |
| Yakama Tribe | Willard Hatchery | CO | UN | 2003 | 100,794 | 04-23-03 | 05-02-03 | Little Wenatchee River | Wenatchee River |
| Yakama Tribe Total | | | | | 2,586,083 | | | | |
| Grand Total | | | | | 8,681,163 | | | | |

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary

From: 5/16/03 to 5/29/03

| Agency | Hatchery | Species | Race | MigYr | NumRel | RelStart | RelEnd | RelSite | RelRiver |
|----------------------------------------------------|--------------------------|---------|------|-------|------------------|----------|----------|-----------------------------|--------------------|
| Idaho Dept. of Fish and Wildlife | Oxbow-Idaho | | FA | 2003 | 500,000 | 05-16-03 | 05-20-03 | Hells Canyon Dam | Snake River |
| Idaho Dept. of Fish and Wildlife Total | | | | | 500,000 | | | | |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 130,500 | 05-08-03 | 05-23-03 | Big Canyon Acclim.Pd (G.R.) | Grande Ronde River |
| Oregon Dept. of Fish and Wildlife | Irrigon Hatchery Complex | ST | SU | 2003 | 217,000 | 05-07-03 | 05-22-03 | Wallowa Acclim Pond | Wallowa River |
| Oregon Dept. of Fish and Wildlife Total | | | | | 347,500 | | | | |
| Washington Dept. of Fish and Wildlife | Klickitat Hatchery | CO | NO | 2003 | 1,000,000 | 05-12-03 | 05-23-03 | Klickitat Hatchery | Klickitat River |
| Washington Dept. of Fish and Wildlife | Turtle Rock Hatchery | CH1 | SU | 2003 | 120,000 | 04-13-03 | 05-23-03 | Above Rocky Reach Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | CH1 | SU | 2003 | 121,000 | 04-07-03 | 05-30-03 | Bel. Priest Rapids Dam | Mid-Columbia River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 57,095 | 04-21-03 | 05-16-03 | Okanogan River | Okanogan River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 57,095 | 04-21-03 | 05-16-03 | Similkameen Acclim Pd | Okanogan River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 105,890 | 04-15-03 | 05-16-03 | Twisp Acclim Pond | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 107,055 | 04-21-03 | 05-16-03 | Chewuch River | Methow River |
| Washington Dept. of Fish and Wildlife | Wells Hatchery | ST | SU | 2003 | 107,055 | 04-21-03 | 05-16-03 | Methow River | Methow River |
| Washington Dept. of Fish and Wildlife Total | | | | | 1,675,190 | | | | |
| Yakama Tribe | Prosser Acclim. Pond | CH0 | FA | 2003 | 320,000 | 05-05-03 | 05-20-03 | Prosser Acclim Pond | Yakama River |
| Yakama Tribe Total | | | | | 320,000 | | | | |
| Grand Total | | | | | 2,842,690 | | | | |

Two-Week Summary of Passage Indices

| COMBINED YEARLING CHINOOK | | | | | | | | | | | | |
|----------------------------------|--------|---------------|---------------|---------------|--------------|------------------|------------------|----------------|---------------|----------------|----------------|------------------|
| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 | |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | |
| 05/02/2003 | * | 108 | 119 | 36 | 27 | 69,084 | 251,130 | 13,851 | 264 | --- | 24,497 | 71,222 |
| 05/03/2003 | * | --- | 70 | --- | --- | 66,656 | 73,264 | 9,111 | 446 | 76,797 | 18,617 | 66,725 |
| 05/04/2003 | * | --- | 209 | --- | --- | 105,782 | 37,046 | 16,762 | 283 | --- | 27,459 | 68,431 |
| 05/05/2003 | * | 19 | 91 | 30 | 25 | 83,926 | 67,298 | 22,506 | 248 | 119,072 | 39,200 | 64,116 |
| 05/06/2003 | * | 65 | 41 | 84 | 121 | 246,906 | 57,671 | 21,538 | 514 | --- | 48,106 | 77,285 |
| 05/07/2003 | * | 56 | 24 | 32 | 29 | 151,196 | 56,918 | 29,953 | 463 | 90,231 | 46,341 | 91,520 |
| 05/08/2003 | * | 17 | 21 | 39 | 27 | 167,373 | 48,750 | 15,278 | 941 | --- | 65,231 | 85,948 |
| 05/09/2003 | * | 2 | 96 | 9 | 24 | 105,400 | 75,475 | 10,694 | 363 | 117,270 | 55,639 | 114,015 |
| 05/10/2003 | * | --- | 62 | --- | --- | 49,333 | 27,132 | 29,840 | 319 | --- | 46,452 | 98,908 |
| 05/11/2003 | * | --- | 57 | --- | --- | 63,891 | 44,713 | 19,845 | 344 | 86,579 | 31,839 | 90,312 |
| 05/12/2003 | * | 14 | 56 | 5 | 8 | 51,799 | 22,138 | 10,840 | 511 | --- | 24,512 | 59,469 |
| 05/13/2003 | * | 77 | 69 | 6 | 23 | 112,657 | 42,711 | 15,121 | 1,301 | 127,854 | 45,558 | 84,594 |
| 05/14/2003 | * | 17 | 84 | 22 | 7 | 99,335 | 86,339 | 9,877 | 450 | --- | 26,328 | 53,834 |
| 05/15/2003 | * | 16 | 37 | 38 | 16 | 57,410 | 78,183 | 12,278 | --- | 96,876 | 122,244 | 98,561 |
| Total: | | 391 | 1,036 | 301 | 307 | 1,430,748 | 968,768 | 237,494 | 6,447 | 714,679 | 622,023 | 1,124,940 |
| # Days: | | 10 | 14 | 10 | 10 | 14 | 14 | 14 | 13 | 7 | 14 | 14 |
| Average: | | 39 | 74 | 30 | 31 | 102,196 | 69,198 | 16,964 | 496 | 102,097 | 44,430 | 80,353 |
| YTD | | 31,927 | 33,398 | 10,702 | 1,312 | 2,786,340 | 1,502,132 | 513,190 | 11,580 | 966,202 | 787,913 | 2,126,577 |

| COMBINED SUBYEARLING CHINOOK | | | | | | | | | | | | |
|-------------------------------------|--------|-----------|-----------|-----------|------------|--------------|------------|------------|--------------|---------------|------------|------------------|
| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 | |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | |
| 05/02/2003 | * | 0 | 0 | 0 | 2 | 0 | 0 | 9 | --- | 0 | 1,191 | |
| 05/03/2003 | * | --- | 0 | --- | --- | 0 | 4 | 0 | 637 | 0 | 416 | |
| 05/04/2003 | * | --- | 0 | --- | --- | 0 | 0 | 0 | --- | 0 | 394 | |
| 05/05/2003 | * | 0 | 17 | 1 | 1 | 0 | 0 | 0 | 602 | 0 | 838 | |
| 05/06/2003 | * | 0 | 12 | 0 | 1 | 0 | 0 | 0 | 13 | --- | 1,474 | |
| 05/07/2003 | * | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 609 | 0 | 463 |
| 05/08/2003 | * | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | --- | 0 | 240 |
| 05/09/2003 | * | 0 | 0 | 6 | 4 | 0 | 284 | 0 | 3 | 1,883 | 0 | 2,581 |
| 05/10/2003 | * | --- | 0 | --- | --- | 0 | 4 | 0 | 3 | --- | 0 | 132,591 |
| 05/11/2003 | * | --- | 0 | --- | --- | 0 | 0 | 0 | 3 | 780 | 0 | 255,563 |
| 05/12/2003 | * | 0 | 0 | 1 | 9 | 216 | 0 | 0 | 3 | --- | 0 | 106,010 |
| 05/13/2003 | * | 0 | 1 | 2 | 4 | 0 | 3 | 0 | 5 | 2,314 | 0 | 34,119 |
| 05/14/2003 | * | 0 | 0 | 1 | 7 | 420 | 0 | 0 | 4 | --- | 0 | 19,226 |
| 05/15/2003 | * | 0 | 0 | 2 | 23 | 204 | 0 | 0 | --- | 4,334 | 0 | 18,544 |
| Total: | | 0 | 30 | 13 | 52 | 840 | 296 | 0 | 59 | 11,159 | 0 | 573,650 |
| # Days: | | 10 | 14 | 10 | 10 | 14 | 14 | 14 | 13 | 7 | 14 | 14 |
| Average: | | 0 | 2 | 1 | 5 | 60 | 21 | 0 | 5 | 1,594 | 0 | 40,975 |
| YTD | | 1 | 44 | 22 | 135 | 5,146 | 360 | 202 | 1,382 | 33,669 | 874 | 1,676,048 |

* 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.

Two-Week Summary of Passage Indices

| COMBINED COHO | | | | | | | | | | | |
|-----------------|--------|-----------|-----------|-----------|--------------|--------------|--------------|------------|--------------|---------------|------------------|
| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) |
| 05/02/2003 | * | 0 | 0 | 0 | 207 | 0 | 148 | 4 | --- | 1,160 | 38,350 |
| 05/03/2003 | * | --- | 0 | --- | 439 | 4 | 0 | 12 | 0 | 1,184 | 44,068 |
| 05/04/2003 | * | --- | 0 | --- | 220 | 0 | 244 | 13 | --- | 3,218 | 59,951 |
| 05/05/2003 | * | 0 | 0 | 0 | 441 | 0 | 231 | 11 | 0 | 4,078 | 55,525 |
| 05/06/2003 | * | 0 | 0 | 0 | 418 | 0 | 75 | 13 | --- | 2,789 | 61,281 |
| 05/07/2003 | * | 0 | 0 | 0 | 0 | 1,077 | 188 | 14 | 913 | 4,320 | 85,033 |
| 05/08/2003 | * | 0 | 0 | 0 | 212 | 293 | 376 | 14 | --- | 3,091 | 56,898 |
| 05/09/2003 | * | 0 | 0 | 0 | 0 | 302 | 194 | 19 | 157 | 4,269 | 66,043 |
| 05/10/2003 | * | --- | 0 | --- | 438 | 9 | 306 | 46 | --- | 2,711 | 55,603 |
| 05/11/2003 | * | --- | 0 | --- | 437 | 0 | 29 | 14 | 780 | 2,301 | 33,947 |
| 05/12/2003 | * | 0 | 0 | 0 | 651 | 0 | 30 | 64 | --- | 1,488 | 33,613 |
| 05/13/2003 | * | 0 | 0 | 0 | 0 | 0 | 112 | 147 | 330 | 1,166 | 43,362 |
| 05/14/2003 | * | 0 | 0 | 0 | 209 | 20 | 92 | 203 | --- | 838 | 45,629 |
| 05/15/2003 | * | 0 | 0 | 0 | 204 | 11 | 221 | --- | 333 | 4,630 | 41,660 |
| Total: | | 0 | 0 | 0 | 3,876 | 1,716 | 2,246 | 574 | 2,513 | 37,243 | 720,963 |
| # Days: | | 10 | 14 | 10 | 10 | 14 | 14 | 13 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 277 | 123 | 160 | 44 | 359 | 2,660 | 51,497 |
| YTD | | 0 | 0 | 0 | 5,207 | 2,043 | 2,412 | 600 | 3,117 | 42,838 | 1,031,226 |

| COMBINED STEELHEAD | | | | | | | | | | | | |
|--------------------|--------|--------------|---------------|--------------|--------------|------------------|------------------|----------------|--------------|---------------|----------------|----------------|
| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 | |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | |
| 05/02/2003 | * | 206 | 324 | 12 | 102 | 62,217 | 180,621 | 23,240 | 127 | --- | 5,231 | 12,863 |
| 05/03/2003 | * | --- | 385 | --- | --- | 34,300 | 33,652 | 15,974 | 161 | 2,940 | 4,699 | 14,966 |
| 05/04/2003 | * | --- | 2,804 | --- | --- | 33,347 | 33,117 | 27,472 | 167 | --- | 6,103 | 17,551 |
| 05/05/2003 | * | 93 | 1,489 | 8 | 142 | 36,346 | 27,031 | 18,919 | 207 | 5,279 | 6,314 | 14,248 |
| 05/06/2003 | * | 147 | 605 | 13 | 534 | 62,875 | 24,300 | 14,123 | 309 | --- | 7,896 | 21,269 |
| 05/07/2003 | * | 95 | 529 | 12 | 169 | 38,903 | 31,129 | 37,770 | 297 | 5,790 | 8,836 | 21,316 |
| 05/08/2003 | * | 128 | 3,267 | 26 | 136 | 54,730 | 21,562 | 21,571 | 471 | --- | 7,760 | 21,127 |
| 05/09/2003 | * | 68 | 3,280 | 11 | 217 | 74,474 | 20,470 | 31,268 | 294 | 8,325 | 8,682 | 24,954 |
| 05/10/2003 | * | --- | 3,011 | --- | --- | 42,098 | 26,975 | 58,426 | 309 | --- | 7,064 | 23,524 |
| 05/11/2003 | * | --- | 1,446 | --- | --- | 103,276 | 25,030 | 26,976 | 294 | 4,370 | 5,659 | 17,934 |
| 05/12/2003 | * | 86 | 989 | 34 | 129 | 53,749 | 8,450 | 12,409 | 307 | --- | 5,077 | 13,574 |
| 05/13/2003 | * | 225 | 1,342 | 43 | 139 | 38,855 | 12,607 | 12,735 | 441 | 3,984 | 5,102 | 16,586 |
| 05/14/2003 | * | 74 | 1,765 | 46 | 284 | 44,540 | 20,970 | 25,200 | 327 | --- | 5,280 | 21,533 |
| 05/15/2003 | * | 86 | 1,368 | 22 | 231 | 52,712 | 20,191 | 15,329 | --- | 4,669 | 6,012 | 23,878 |
| Total: | | 1,208 | 22,604 | 227 | 2,083 | 732,422 | 486,105 | 341,412 | 3,711 | 35,357 | 89,715 | 265,323 |
| # Days: | | 10 | 14 | 10 | 10 | 14 | 14 | 14 | 13 | 7 | 14 | 14 |
| Average: | | 121 | 1,615 | 23 | 208 | 52,316 | 34,722 | 24,387 | 285 | 5,051 | 6,408 | 18,952 |
| YTD | | 2,248 | 40,330 | 1,476 | 4,057 | 1,638,278 | 1,015,387 | 566,517 | 4,303 | 66,642 | 143,320 | 364,320 |

Note 1: 4/27-5/1 Little Goose Dam coho -potential misidentification of species; sample correction pending further analysis

Note 2: May 1 Little Goose Dam sample partly estimated based on electronic counts.

* See sampling comments

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

Two-Week Summary of Passage Indices

| | | COMBINED SOCKEYE | | | | | | | | | | |
|-----------------|---|-------------------------|-----------|-----------|-----------|--------------|------------|------------|--------------|----------------|----------------|----------------|
| | | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 |
| Date | | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) | (INDEX) |
| 05/02/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 188 | --- | 313 | 0 |
| 05/03/2003 | * | --- | 0 | --- | --- | 0 | 291 | 0 | 229 | 113,261 | 674 | 0 |
| 05/04/2003 | * | --- | 0 | --- | --- | 0 | 281 | 0 | 130 | --- | 669 | 0 |
| 05/05/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 169 | 55,705 | 1,842 | 419 |
| 05/06/2003 | * | 0 | 0 | 0 | 0 | 418 | 0 | 0 | 335 | --- | 2,961 | 1,264 |
| 05/07/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 43,978 | 19,047 | 4,171 |
| 05/08/2003 | * | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 217 | --- | 29,588 | 5,282 |
| 05/09/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 578 | 35,940 | 11,432 | 29,472 |
| 05/10/2003 | * | --- | 0 | --- | --- | 0 | 3 | 0 | 607 | --- | 8,848 | 55,603 |
| 05/11/2003 | * | --- | 0 | --- | --- | 0 | 0 | 0 | 741 | 24,034 | 5,597 | 21,137 |
| 05/12/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,312 | --- | 6,784 | 15,514 |
| 05/13/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 876 | 37,331 | 7,071 | 16,112 |
| 05/14/2003 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 320 | --- | 3,496 | 8,972 |
| 05/15/2003 | * | 0 | 0 | 0 | 0 | 204 | 0 | 37 | --- | 115,697 | 39,596 | 19,560 |
| Total: | | 0 | 0 | 0 | 0 | 622 | 576 | 37 | 5,798 | 425,946 | 137,918 | 177,506 |
| # Days: | | 10 | 14 | 10 | 10 | 14 | 14 | 14 | 13 | 7 | 14 | 14 |
| Average: | | 0 | 0 | 0 | 0 | 44 | 41 | 3 | 446 | 60,849 | 9,851 | 12,679 |
| YTD | | 0 | 0 | 0 | 0 | 1,196 | 755 | 304 | 8,959 | 499,882 | 138,919 | 178,468 |

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

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: 05/15

| DAM | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|----------------|-------|---------|-------|------------|-------|----------------|------|-------|------|------------|------|--------------|------|-------|------|------------|------|
| | 2003 | | 2002 | | 10-Yr Avg. | | 2003 | | 2002 | | 10-Yr Avg. | | 2003 | | 2002 | | 10-Yr Avg. | |
| | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 166,936 | 9,300 | 237,515 | 4,477 | 110,285 | 4,512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDA | 109,144 | 6,435 | 148,571 | 2,069 | 69,222 | 2,607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JDA | 81,249 | 5,256 | 111,717 | 1,109 | 55,635 | 1,730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MCN | 74,495 | 4,287 | 94,078 | 1,868 | 47,890 | 1,438 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IHR | 52,500 | 2,602 | 53,467 | 516 | 27,428 | 774 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMN | 44,990 | 1,769 | 43,872 | 343 | 25,277 | 673 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LGS | 41,106 | 1,607 | 40,377 | 295 | 23,431 | 650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LWG | 44,254 | 1,322 | 33,281 | 501 | 21,362 | 554 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRD | 14,614 | 53 | 25,646 | 22 | 11,041 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIS | 12,793 | 143 | 10,411 | 426 | 5,623 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRH | 3,011 | 9 | 3,185 | 1 | 1,910 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEL | 773 | 0 | 901 | 2 | 792 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| DAM | Coho | | | | | | Sockeye | | | Steelhead | | | |
|-----|-------|------|-------|------|------------|------|------------|------|------|------------|--------|-------|-------|
| | 2003 | | 2002 | | 10-Yr Avg. | | 10-Yr Avg. | | | 10-Yr Avg. | | | Wild |
| | Adult | Jack | Adult | Jack | Adult | Jack | 2003 | 2002 | Avg. | 2003 | 2002 | Avg. | 2003 |
| BON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3,163 | 4,668 | 3,104 | 763 |
| TDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 880 | 2,489 | 1,138 | 472 |
| JDA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,421 | 7,909 | 3,337 | 831 |
| MCN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,399 | 4,793 | 1,990 | 831 |
| IHR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,464 | 4,605 | 2,301 | 725 |
| LMN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,812 | 5,051 | 2,381 | 1,094 |
| LGS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2,015 | 6,124 | 1,808 | 1,243 |
| LWG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,721 | 12,405 | 5,486 | 3,685 |
| PRD | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 8 | 26 | 4 | 0 |
| RIS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 25 | 64 | 37 | 19 |
| RRH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 45 | 169 | 54 | 34 |
| WEL | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 47 | 11 | 10 |

PRD, RIS, RRH, WEL are through 5/14. IHR is missing 4/6, 4/23, 4/26. LMN is missing 4/23, identical counts for 4/1 & 4/2.

LGS are missing 4/17 & 4/23. LGR is missing data for 3/6 and 5/12.

Although WEL began their counts early on 4/15, they won't have data posted until later in the season.

**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: 5/16/03

BON counts from January 1, 2003 to March 14, 2003 (our counts begin March 15)

| Chinook Adult | Chinook Jack | Steelhead | Wild Steelhead |
|---------------|--------------|-----------|----------------|
| 3,758 | 0 | 3,443 | 408 |

Two Week Transportation Summary

| | | 05/03/03 TO 05/16/03 | | | | | |
|--------------------------------------|--------------------------------|----------------------|-----------|-------|---------|-----------|-------------|
| | | Species | | | | | |
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 597 | 1,003,862 | 2,686 | 448 | 512,505 | 1,520,098 |
| | Sum of NumberBarged | 595 | 992,594 | 2,683 | 446 | 499,363 | 1,495,681 |
| | Sum of NumberBypassed | 0 | 10,231 | 0 | 0 | 13,010 | 23,241 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMortalities | 2 | 1,037 | 3 | 2 | 132 | 1,176 |
| LGS | Sum of NumberCollected | 209 | 697,416 | 1,251 | 407 | 348,723 | 1,048,006 |
| | Sum of NumberBarged | 207 | 671,158 | 1,249 | 406 | 348,562 | 1,021,582 |
| | Sum of NumberBypassed | 0 | 5 | 0 | 0 | 1 | 6 |
| | Sum of Numbertrucked | 0 | 27,715 | 0 | 0 | 0 | 27,715 |
| | Sum of TotalProjectMortalities | 2 | 499 | 2 | 1 | 160 | 664 |
| LMN | Sum of NumberCollected | | 124,357 | 1,180 | 20 | 178,440 | 303,997 |
| | Sum of NumberBarged | | 122,872 | 1,178 | 20 | 178,080 | 302,150 |
| | Sum of NumberBypassed | | 1,349 | 0 | 0 | 100 | 1,449 |
| | Sum of Numbertrucked | | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMortalities | | 136 | 2 | 0 | 260 | 398 |
| MCN | Sum of NumberCollected | 6,901 | 452,412 | 1,600 | 267,348 | 22,480 | 750,741 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 6,900 | 452,021 | 1,600 | 267,249 | 22,394 | 750,164 |
| | Sum of Numbertrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMortalities | 1 | 298 | 0 | 103 | 43 | 445 |
| Total Sum of NumberCollected | | 7,707 | 2,278,047 | 6,717 | 268,223 | 1,062,148 | 3,622,842 |
| Total Sum of NumberBarged | | 802 | 1,786,624 | 5,110 | 872 | 1,026,005 | 2,819,413 |
| Total Sum of NumberBypassed | | 6,900 | 463,606 | 1,600 | 267,249 | 35,505 | 774,860 |
| Total Sum of Numbertrucked | | 0 | 27,715 | 0 | 0 | 0 | 27,715 |
| Total Sum of TotalProjectMortalities | | 5 | 1,970 | 7 | 106 | 595 | 2,683 |

YTD Transportation Summary

TO: 05/16/03

| | | Species | | | | | |
|--------------------------------------|--------------------------------|---------|-----------|-------|---------|-----------|-------------|
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 3,802 | 1,992,603 | 3,681 | 886 | 1,170,937 | 3,171,909 |
| | Sum of NumberBarged | 2,977 | 1,933,176 | 3,738 | 894 | 1,148,276 | 3,089,061 |
| | Sum of NumberBypassed | 0 | 27,031 | 0 | 0 | 23,599 | 50,630 |
| | Sum of NumberTrucked | 816 | 54,208 | 40 | 78 | 15,402 | 70,544 |
| | Sum of TotalProjectMortalities | 9 | 3,519 | 3 | 11 | 337 | 3,879 |
| LGS | Sum of NumberCollected | 256 | 1,099,562 | 1,490 | 534 | 743,747 | 1,845,589 |
| | Sum of NumberBarged | 247 | 1,062,229 | 1,486 | 525 | 742,648 | 1,807,135 |
| | Sum of NumberBypassed | 0 | 9 | 0 | 0 | 1 | 10 |
| | Sum of NumberTrucked | 5 | 38,253 | 0 | 5 | 850 | 39,113 |
| | Sum of TotalProjectMortalities | 4 | 1,010 | 3 | 4 | 248 | 1,269 |
| LMN | Sum of NumberCollected | 165 | 285,414 | 1,270 | 200 | 302,184 | 589,233 |
| | Sum of NumberBarged | 105 | 267,674 | 1,264 | 160 | 299,980 | 569,183 |
| | Sum of NumberBypassed | 0 | 2,086 | 0 | 0 | 232 | 2,318 |
| | Sum of NumberTrucked | 60 | 15,149 | 0 | 40 | 1,637 | 16,886 |
| | Sum of TotalProjectMortalities | 0 | 505 | 6 | 0 | 335 | 846 |
| MCN | Sum of NumberCollected | 25,224 | 616,754 | 2,006 | 316,876 | 43,430 | 1,004,290 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 25,189 | 616,304 | 2,006 | 316,770 | 43,335 | 1,003,604 |
| | Sum of NumberTrucked | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of TotalProjectMortalities | 35 | 357 | 0 | 110 | 52 | 554 |
| Total Sum of NumberCollected | | 29,447 | 3,994,333 | 8,447 | 318,496 | 2,260,298 | 6,611,021 |
| Total Sum of NumberBarged | | 3,329 | 3,263,079 | 6,488 | 1,579 | 2,190,904 | 5,465,379 |
| Total Sum of NumberBypassed | | 25,189 | 645,430 | 2,006 | 316,770 | 67,167 | 1,056,562 |
| Total Sum of NumberTrucked | | 881 | 107,610 | 40 | 123 | 17,889 | 126,543 |
| Total Sum of TotalProjectMortalities | | 48 | 5,391 | 12 | 125 | 972 | 6,548 |

