

Fish Passage Center

Weekly Report #00 - 3

March 24, 2000

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PLEASE NOTE:

The Fish Passage Center Weekly Report is available on Friday of each week by 4:00 p.m. on our internet homepage at www.fpc.org. If you can get the information from the website, you will get your information sooner and help us utilize our resources more efficiently by saving postage and paper costs. We can also send the report via email. Reduced use of paper also helps the environment.. Please let us know if you want to be taken off the weekly report mailing list or if you would rather receive the report by email rather than snail mail. You can email us at fpcstaff@fpc.org. Thanks!

SUMMARY OF EVENTS:

Water Supply: The cumulative precipitation for the October-March period for the Columbia above Coulee is 110% of normal, for the Snake River above Ice Harbor is 95% of normal, and for the Columbia at The Dalles with 104% of normal.

The new March Midmonth Runoff Volume Forecast has been issued. Runoff volumes are decreasing for most of the major reservoirs in the basin. The only reservoirs that recorded an increase are Libby, which increased from 105% of normal to 110% of normal and Grand Coulee, which increased from 103% of normal to 104% of normal. The Runoff Volume Forecast for The Dalles remained 99% of normal. The Snake River basin decreased at all major sites in the range of 2%-3%, resulting in a decreased Lower Granite forecast from 93% to 90%.

The Summary of the Runoff Volume Forecasts is given in the following Table:

| Site | February Runoff V Forec | olume | March I Runoff V Foreca | olume | March MidmonthRunoff Volume Forecast | | | | |
|-------------------------------|-------------------------------|-----------|-------------------------------|-------------|--|-------------|--|--|--|
| Site | Runoff Volume [KAF] | % of avg. | Runoff Volume [KAF] | % of avg | Runoff Volume [%] | % of avg | | | |
| Mica (April-Sept.) | 13.5 | 106 | 12.8 | 101 | 12.9 | 101 | | | |
| Hungry Horse (April-Sept.) | 2.04 | 93 | 2.1 | 96 | 2.05 | 94 | | | |
| Libby (April-Sept.) | 7.25 | 107 | 7.1 | 105 | 7.43 | 110 | | | |
| Grand Coulee (JanJuly) | 66.1 | 104 | 65 | 103 | 65.8 | 104 | | | |
| The Dalles (JanJuly) | 106 | 100 | 105 | 99 | 105.0 | 99 | | | |
| Brownlee (April-July) | 3.67 | 63 | 4.06 | 70 | 3.95 | 68 | | | |
| Dworshak (April-July) | 2.8 | 104 | 2.8 | 104 | 2.72 | 101 | | | |
| Lower Granite (JanJuly) | 26.9 | 90 | 27.6 | 93 | 26.8 | 90 | | | |
| Heise NR-ID (April-July) | 2.7 | 78 | 2.94 | 85 | 2.87 | 83 | | | |
| Weiser –ID (April-July) | 3.4 | 62 | 3.77 | 69 | 3.66 | 67 | | | |

Reservoir Operations: Reservoirs continue to be operated for power generation and flood control during fall and winter. A summary of actual elevations and required flood control elevations at the end of March is shown in the following table:

| Reservoir | Actual Elev. as of March 23, 2000 [ft] | Required End of March Flood Control Elevation [ft] | Max. Reservoir Pool [ft] |
|-----------------|--|--|--------------------------------|
| Libby | 2336.65 | 2331.3 | 2459.0 |
| Hungry Horse | 3504.27 | 3516.5 | 3560.0 |
| Grand Coulee | 1264.0 | 1272.0 | 1290.0 |
| Brownlee | 2051.8* | 2053.1 | 2077.0 |
| Dworshak | 1516.9 | 1512.2 | 1600.0 |

^{*}as of March 22, 2000

Libby reservoir continues to refill in order to meet the 95 BiOp and the sturgeon BiOp, which includes refill to full pool elevation by June 30 and flow releases for sturgeon spawning. The reservoir is maintaining a minimum outflows of 4 kcfs.

Hungry Horse is drafted below required flood control elevations for power generation purposes. Current outflows are in the range of 4.5 kcfs to 4.69 kcfs for the period of March 17-23.

Grand Coulee is drafted for power generation purposes below flood control elevations. Current outflows are in the range of 55.5 kcfs to 117.2 kcfs for the period of March 17-23.

Brownlee is currently drafted below the required end of March flood control elevation. Current outflows below Hells Canyon Dam are in the range of 16.32 kcfs to 23.65 kcfs for the period of March 17-23.

Dworshak is operated for flood control operations through the end of March. Current outflows have decreased from 10.8 kcfs on March 17 to 4.1 kcfs on March 23. There is currently a request for the Nez Pierce tribe hatchery to maintain 9.5 kcfs below the confluence of Big Canyon Creek at the Clearwater River to facilitate the hatchery water intake.

Flows: Requested flow operations for this period include:

- Maintenance of 105 kcfs minimum instantaneous flow at Priest Rapids Dam, starting from March 22. Flows should not be decreased to avoid stranding of juvenile fall chinook emerging below Priest Rapids at Vernita Bar. Average daily flows on March 23 decreased to 119.8 kcfs from 132.5 kcfs on March 22.
- Flow at Bonneville Dam to protect chum salmon and fall chinook emergence at the Ives/ Pierce complex.

Spill: Spill in the past week has only occurred at McNary Dam for a few hours on March 22 and March 23, due to flows in excess of hydraulic capacity. There has been no other spill throughout the Snake and Columbia River systems in the past week. Dissolved gas levels were maintained below the water quality standards at all sites.

Smolt Monitoring Program. This week started with a collection of over 900 yearling chinook salmon at the Salmon River trap (WTB). Hatchery chinook (ad-clipped) accounted for over 97% of the collected chinook this week at the Salmon River trap. No PIT tagged fish from Rapid River Hatchery have been detected at the Salmon River trap yet, but they should begin showing up in next week's collections. Increased numbers of PIT tagged fish were detected leaving Rapid River Hatchery ponds between March 22 and 23 on the new PIT tag detection system being used for monitoring the volitional release there. Wild chinook dominated the trap collections on the Imnaha (100%) and Grande Ronde (94%) rivers this week. No yearling chinook were collected this week at the Snake River trap at Lewiston (LEW), but small number of coho salmon were collected. Hatchery releases of coho began mid-March this year in the Clearwater River drainage. Typically few (a total of 130 fish last year) of these coho are collected in the Snake River trap which is located about 1 km above the confluence of the Clearwater and Snake rivers.

In the lower Columbia River, subyearling chinook salmon still predominated in this week's collections at the new Bonneville Dam second powerhouse sampling facility. Of the small numbers of yearling chinook salmon collected this week, about one-third were ad-clipped (hatchery fish). Unclipped yearling chinook salmon collected at Bonneville Dam are a mixture of hatchery and wild fish.

Adult Fish Passage. During the past week, the adult fish ladder at Lower Granite Dam was shut down for two days, March 22 and 23, to remove debris from a large water pipe that supplies flow to the adult trapping facility. The COE was able to retrieve a large plastic barrel that was lodged in (corkscrewed into) the head end of the 18" pipe. The water supply to the adult trapping facility was operating by afternoon on March 23. At McNary Dam, one of the tilting exit weirs at the WA fish ladder was damaged. It is expected that the project can complete work on the weir, but needs parts and fabrication prior to the installation. The project estimated 8-h outage of the fish ladder to complete the work, tentatively scheduled for early April. At Wanapum Dam, the Right Bank fish ladder has been out of service since February 22 and should be back on line March 24. All other fish

Fish counting will be initiated at most COE projects on April 1 with the Mid-Columbia projects beginning mid-April. Fish counts can be found on the FPC website: www.fpc.org. In our Weekly Report Table, the current (year 2000) count will be listed at each project, the previous year's total (1999), and 10-year average through the same ending date, generally Wednesday or Thursday of the Report week.

ladders should be operating at full criteria levels.

The first official count day at Bonneville was March 15 with 83 adult spring chinook counted through March 22; the high daily count was 33 on March 22. So far, these tallies are greater than the 1999 count but slightly below the 10-year average for the same date; however, the few fish returning in March are only a small component of the Run. Water temperatures have been fairly cool between 43 and 44°F and the Spring Run of chinook appears to be slowly coming up river. As a point of interest, there have been 3 jack chinook counted to date. The steelhead count through March 22 was 337 with 171 of the total listed as "wild" steelhead.

At Lower Granite Dam, fish counting began March 1 with 970 adult steelhead counted through March 21. Note that 3/13, and 3/14 counts are currently missing from the total. About 15% of the steelhead past the project were classed as "wild". To date, the 2000 count is less than the 1999 and

10-year average.

Hatchery Releases. Projected numbers of hatchery fish will exceed 80 million anadromous chinook, coho, and sockeye salmon along with steelhead to be released above Bonneville Dam and expected to migrate in year 2000. Columbia Basin hatcheries are nearer production levels this year compared to previous years.

Snake River – A portion of the Year 2000 migration of spring chinook were released from some acclimation ponds and streams in fall 1999. During the past two weeks, yearling spring chinook releases were initiated at Rapid River Hatchery from March 16 through about mid-April, from Imnaha Acclimation Pond starting March 22, with a small release from Dworshak NFH (65k) on March 22. Yearling spring chinook have been volitionally migrating from Curl Lake Acclimation Pond in the Tucannon River. From Rapid River H, approximately 48,000 fish from one pond are PIT tagged and will be exiting through the new PIT tag detection system installed at the exit from one large pond. These fish are part of the larger Comparative Survival Study that is on-going in the Snake River. A direct stream release of 463,000 yearling spring chinook was completed on March 10 into Rapid River from Clearwater H. These fish have been moving past the Salmon and Snake River traps during the past two weeks of sampling. Most yearling releases of spring, summer, and fall chinook will be occurring during the next month.

Most steelhead for the Snake Basin will be released in April and May. About 520,000 yearling coho were released between March 15-17 into Lapwai Cr and Potlatch R. These fish were transported by USFWS from Willard H to selected sites in those streams. These were the initial coho releases in the Snake River basin for the 2000 migration. One additional change from the past week was the initiation of a volitional release of yearling fall chinook (450,000 total) directly from Lyons Ferry H into the Snake River.

Mid-Columbia – (above McNary Dam) Yakama

Tribal Supplementation Facilities at Clark Flat and Easton continued volitional release of yearling chinook this week that will end on June 1. Yearling

chinook from the Methow, Entiat, and Wenatchee River basins will mainly occur in mid-April. Yearling spring chinook from Ringold Hatchery were released in January this season. Juvenile steelhead and coho salmon will be released in April and May from Mid-Columbia hatcheries. Sockeye were released into Lake Wenatchee and the Okanogan R this past fall (1999) with no spring releases made into either Basin. Yearling summer chinook releases will occur mainly in April with subyearling summer and fall chinook released from late May to late June.

Lower Columbia - (from above Bonneville Dam to below McNary Dam). The final release of 330,000 yearling spring chinook from Klickitat Hatchery was completed during this week with the total release from the hatchery of 563,000. The Umatilla River has received greater than 500,000 yearling spring chinook during the past two weeks with the remaining chinook scheduled for release in April. In addition, about 240,000 yearling fall chinook were released in the Umatilla River in March. For the month, about 750,000 coho have been planted in the Umatilla River with the remaining expected for April. The next large release of subyearling Tule fall chinook from Spring Creek NFH is scheduled for mid April. Juvenile steelhead, chinook and coho releases will mainly occur in April in this Zone.

| | Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects | | | | | | | | | | | | | |
|----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Gra | and | Chi | ef | | | Ro | cky | R | ock | | | Pr | iest |
| | Cou | ılee | Jose | ph | W | ells | Re | ach | Isl | and | Wana | pum | Ra | pids |
| Date | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 03/10/00 | 126.0 | 0.0 | 125.9 | 0.0 | 126.6 | 0.0 | 130.9 | 0.2 | 132.2 | 0.0 | 131.9 | 0.0 | 134.6 | 0.0 |
| 03/11/00 | 70.0 | 0.0 | 83.2 | 0.0 | 91.6 | 0.0 | 98.1 | 0.0 | 99.4 | 0.0 | 123.1 | 0.0 | 128.5 | 0.0 |
| 03/12/00 | 89.0 | 0.0 | 83.6 | 0.0 | 83.0 | 0.0 | 80.7 | 0.0 | 80.1 | 0.0 | 90.1 | 0.0 | 94.8 | 0.0 |
| 03/13/00 | 123.7 | 0.0 | 122.3 | 0.0 | 121.9 | 0.0 | 121.8 | 0.0 | 121.8 | 0.0 | 112.8 | 0.0 | 110.5 | 0.0 |
| 03/14/00 | 130.1 | 0.0 | 136.8 | 0.0 | 138.2 | 0.3 | 137.9 | 9.1 | 135.1 | 0.0 | 124.3 | 4.5 | 126.7 | 2.7 |
| 03/15/00 | 132.1 | 0.0 | 131.5 | 0.0 | 134.8 | 0.7 | 143.2 | 7.5 | 145.7 | 0.0 | 150.7 | 15.4 | 151.8 | 7.0 |
| 03/16/00 | 92.1 | 0.0 | 107.1 | 0.0 | 114.7 | 0.0 | 119.9 | 0.0 | 121.9 | 0.0 | 143.2 | 3.4 | 148.1 | 0.3 |
| 03/17/00 | 110.9 | 0.0 | 104.5 | 0.0 | 103.3 | 0.0 | 103.2 | 0.0 | 102.6 | 0.0 | 105.7 | 0.0 | 108.4 | 0.0 |
| 03/18/00 | 62.3 | 0.0 | 66.3 | 0.0 | 69.0 | 0.0 | 74.4 | 0.0 | 74.9 | 0.0 | 90.1 | 0.0 | 97.8 | 0.0 |
| 03/19/00 | 55.5 | 0.0 | 55.8 | 0.0 | 54.2 | 0.0 | 51.8 | 0.0 | 53.3 | 0.0 | 59.9 | 0.0 | 64.4 | 0.0 |
| 03/20/00 | 119.9 | 0.0 | 119.2 | 0.0 | 121.5 | 0.0 | 121.2 | 0.2 | 118.4 | 0.0 | 95.0 | 0.0 | 88.9 | 0.0 |
| 03/21/00 | 117.2 | 0.0 | 122.2 | 0.0 | 126.0 | 0.0 | 132.8 | 0.0 | 133.3 | 0.0 | 123.6 | 0.0 | 126.2 | 0.0 |
| 03/22/00 | 102.4 | 0.0 | 104.3 | 0.0 | 105.1 | 0.0 | 107.0 | 0.0 | 109.7 | 0.0 | 125.3 | 0.0 | 132.5 | 0.0 |
| 03/23/00 | 89.6 | 0.0 | 94.2 | 0.0 | 97.7 | 0.0 | 101.8 | 0.0 | 102.8 | 0.0 | 115.7 | 0.0 | 118.7 | 0.0 |

| | Daily Average Flow and Spill (in kcfs) at Snake Basin Projects Hells Lower Little Lower Ice | | | | | | | | | | | | | |
|----------|--|-------|----------|---------|------|-------|------|-------|-------|--------|------|-------|--|--|
| | | | | Hells | Lo | wer | Li | ttle | Lo | wer | lo | e | | |
| | Dwor | shak | Brownlee | Canyon | Gra | nite | Go | ose | Monur | nental | Har | bor | | |
| Date | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | | |
| 03/10/00 | 10.8 | 0.0 | 20.6 | 16.0 | 52.9 | 0.0 | 49.1 | 0.0 | 52.0 | 0.0 | 50.4 | 0.0 | | |
| 03/11/00 | 10.8 | 0.0 | 18.7 | 20.0 | 52.8 | 0.0 | 55.9 | 0.0 | 58.4 | 0.0 | 58.0 | 0.0 | | |
| 03/12/00 | 10.8 | 0.0 | 19.6 | 22.8 | 51.0 | 0.0 | 49.9 | 0.0 | 54.9 | 0.0 | 56.7 | 0.0 | | |
| 03/13/00 | 10.8 | 0.0 | 20.6 | 18.5 | 51.7 | 0.0 | 56.1 | 0.0 | 59.8 | 0.0 | 61.6 | 0.0 | | |
| 03/14/00 | 10.8 | 0.0 | 20.5 | 18.0 | 51.9 | 0.0 | 51.2 | 0.0 | 53.1 | 0.0 | 50.7 | 0.0 | | |
| 03/15/00 | 10.9 | 0.0 | 19.8 | 23.2 | 49.8 | 0.0 | 49.2 | 0.0 | 53.9 | 0.0 | 55.5 | 0.0 | | |
| 03/16/00 | 10.8 | 0.0 | 20.9 | 19.0 | 53.4 | 0.0 | 52.9 | 0.0 | 53.1 | 0.0 | 53.5 | 0.0 | | |
| 03/17/00 | 10.8 | 0.0 | 20.7 | 22.7 | 55.2 | 0.0 | 54.1 | 0.0 | 57.9 | 0.0 | 56.7 | 0.0 | | |
| 03/18/00 | 6.1 | 0.0 | 20.1 | 23.7 | 48.5 | 0.0 | 51.4 | 0.0 | 53.9 | 0.0 | 53.4 | 0.0 | | |
| 03/19/00 | 5.9 | 0.0 | 21.8 | 23.4 | 45.6 | 0.0 | 48.5 | 0.0 | 51.8 | 0.0 | 51.9 | 0.0 | | |
| 03/20/00 | 6.4 | 0.0 | 20.8 | 21.5 | 53.1 | 0.0 | 54.4 | 0.0 | 56.5 | 0.0 | 56.7 | 0.0 | | |
| 03/21/00 | 4.8 | 0.0 | 20.1 | 21.8 | 46.4 | 0.0 | 46.7 | 0.0 | 50.3 | 0.0 | 50.6 | 0.0 | | |
| 03/22/00 | 4.2 | 0.0 | 20.1 | 18.0 | 44.0 | 0.0 | 47.4 | 0.0 | 48.5 | 0.0 | 47.1 | 0.0 | | |
| 03/23/00 | 4.1 | 0.0 | | | 49.6 | 0.0 | 48.9 | 0.0 | 52.7 | 0.0 | | | | |
| | • | | | | • | • | • | | | | | | | |

| | Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects McNary John Day The Dalles Bonneville | | | | | | | | | | | | |
|----------|--|-------|--------|-------|-------|-------|-------|-------|---------|-------|--|--|--|
| | McN | Nary | John I | Day | The D | alles | | Bon | neville | | | | |
| Date | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | PH1 | PH2 | | | |
| 03/10/00 | 175.3 | 0.0 | 189.5 | 0.0 | 192.0 | 0.0 | 211.3 | 104.0 | 17.4 | 80.6 | | | |
| 03/11/00 | 186.1 | 0.0 | 207.8 | 0.0 | 207.7 | 0.0 | 210.0 | 113.8 | 16.6 | 70.4 | | | |
| 03/12/00 | 172.6 | 0.0 | 188.5 | 0.0 | 188.4 | 0.0 | 211.5 | 119.5 | 17.1 | 65.6 | | | |
| 03/13/00 | 170.4 | 0.0 | 192.9 | 0.0 | 196.6 | 0.0 | 210.1 | 117.2 | 17.2 | 66.3 | | | |
| 03/14/00 | 181.4 | 0.0 | 191.4 | 0.0 | 189.1 | 0.0 | 199.8 | 104.9 | 17.2 | 68.4 | | | |
| 03/15/00 | 172.6 | 0.0 | 189.3 | 0.0 | 189.7 | 0.0 | 198.9 | 106.8 | 16.6 | 66.2 | | | |
| 03/16/00 | 208.1 | 0.0 | 211.3 | 0.0 | 206.8 | 0.0 | 205.0 | 94.4 | 28.5 | 72.8 | | | |
| 03/17/00 | 186.6 | 0.0 | 197.3 | 0.0 | 197.9 | 0.0 | 214.2 | 0.0 | 83.1 | 121.8 | | | |
| 03/18/00 | 165.9 | 0.0 | 175.5 | 0.0 | 179.4 | 0.0 | 193.7 | 0.0 | 70.8 | 113.6 | | | |
| 03/19/00 | 143.9 | 0.0 | 157.2 | 0.0 | 156.0 | 0.0 | 173.9 | 0.0 | 64.5 | 100.1 | | | |
| 03/20/00 | 127.2 | 0.0 | 157.6 | 0.0 | 167.6 | 0.0 | 181.4 | 0.0 | 73.2 | 99.0 | | | |
| 03/21/00 | 150.6 | 0.0 | 154.0 | 0.0 | 158.5 | 0.0 | 173.9 | 0.0 | 73.0 | 91.9 | | | |
| 03/22/00 | 157.4 | 4.9 | 176.4 | 0.0 | 175.7 | 0.0 | 182.3 | 0.0 | 81.4 | 91.7 | | | |
| 03/23/00 | 188.9 | 1.2 | 179.4 | 0.0 | 179.6 | 0.0 | 189.4 | 0.0 | 77.6 | 102.5 | | | |

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

| | Hungry H. Dnst Boundary | | | | | | Grand Coulee | | | | | | | | | Chief Joseph | | | | |
|-------------|-------------------------|-------------|-------------|-----------|-------------|-------------|--------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-----------|
| | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| <u>Date</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 3/9 | 96 | 96 | 97 | 6 | 102 | 102 | 103 | 24 | 103 | 103 | 103 | 24 | 102 | 103 | 105 | 23 | | | | 0 |
| 3/10 | 96 | 96 | 97 | 6 | 103 | 104 | 111 | 24 | 102 | 103 | 103 | 24 | 102 | 102 | 103 | 23 | | | | 0 |
| 3/11 | 96 | 96 | 97 | 7 | 103 | 104 | 109 | 24 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 23 | | | | 0 |
| 3/12 | 96 | 96 | 97 | 6 | 103 | 105 | 112 | 24 | 102 | 102 | 102 | 24 | 102 | 102 | 103 | 23 | | | | 0 |
| 3/13 | 96 | 96 | 96 | 4 | 103 | 103 | 104 | 24 | 102 | 103 | 104 | 24 | 102 | 102 | 104 | 23 | | | | 0 |
| 3/14 | 96 | 96 | 96 | 5 | 102 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | 102 | 103 | 105 | 23 | | | | 0 |
| 3/15 | 96 | 97 | 99 | 15 | 102 | 102 | 103 | 24 | 103 | 103 | 104 | 24 | 102 | 102 | 103 | 23 | | | | 0 |
| 3/16 | 97 | 97 | 98 | 21 | 102 | 102 | 103 | 24 | 103 | 104 | 104 | 24 | 103 | 103 | 105 | 23 | | | | 0 |
| 3/17 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | 97 | 97 | 98 | 24 | 101 | 102 | 102 | 24 | 111 | 113 | 135 | 16 | 104 | 104 | 105 | 23 | | | | 0 |
| 3/20 | 96 | 96 | 97 | 21 | 101 | 101 | 102 | 20 | 100 | 100 | 100 | 4 | 102 | 102 | 104 | 19 | | | | 0 |
| 3/21 | 96 | 96 | 96 | 24 | 102 | 102 | 103 | 24 | 100 | 100 | 100 | 8 | 102 | 102 | 102 | 23 | | | | 0 |
| 3/22 | 97 | 97 | 97 | 24 | 102 | 102 | 103 | 24 | 105 | 105 | 117 | 13 | 103 | 104 | 104 | 23 | | | | 0 |

| Total Dissolved Gas Saturation Data at Mid Columbia | a River | Sites |
|---|---------|-------|
|---|---------|-------|

| | <u>Chief</u> | f J. Dr | <u>ıst</u> | | Wells | <u>i</u> | | | Wells | Dwns | <u>strm</u> | | Rock | y Read | <u>ch</u> | | Rock | <u>y R. T</u> | <u>lwr</u> | |
|------|--------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|---------------|-------------|-----------|
| | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| Date | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 3/9 | 9 | | | 0 | | | | 0 | | | | 0 | 100 | 100 | 101 | 23 | | | | 0 |
| 3/10 |) | | | 0 | | | | 0 | | | | 0 | 100 | 100 | 101 | 24 | | | | 0 |
| 3/11 | 1 | | | 0 | | | | 0 | | | | 0 | 99 | 100 | 101 | 24 | | | | 0 |
| 3/12 | 2 | | | 0 | | | | 0 | | | | 0 | 98 | 99 | 100 | 24 | | | | 0 |
| 3/13 | 3 | | | 0 | | | | 0 | | | | 0 | 100 | 101 | 102 | 24 | | | | 0 |
| 3/14 | 4 | | | 0 | | | | 0 | | | | 0 | 100 | 101 | 101 | 24 | | | | 0 |
| 3/15 | 5 | | | 0 | | | | 0 | | | | 0 | 101 | 101 | 102 | 24 | | | | 0 |
| 3/16 | 3 | | | 0 | | | | 0 | | | | 0 | 102 | 102 | 102 | 24 | | | | 0 |
| 3/17 | 7 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | 3 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | 9 | | | 0 | | | | 0 | | | | 0 | 100 | 101 | 101 | 24 | | | | 0 |
| 3/20 |) | | | 0 | | | | 0 | | | | 0 | 100 | 100 | 101 | 15 | | | | 0 |
| 3/2 | 1 | | | 0 | | | | 0 | | | | 0 | 101 | 101 | 102 | 24 | | | | 0 |
| 3/22 | 2 | | | 0 | | | | 0 | | | | 0 | 102 | 103 | 103 | 24 | | | | 0 |

Total Dissolved Gas Saturation at Mid Columbia River Sites

| | Rock | Island | d | Rock I. Tlwr | | | | | Wana | pum | | | Wana | ipum ' | <u>Tlwr</u> | | Pries | t Rapi | ds_ | |
|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|--------------|-------------|-------------|-----------|
| | <u>24 h</u> | <u>12 h</u> | | # | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| <u>Date</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 3/9 | 102 | 103 | 103 | 24 | | | | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 103 | 24 | 103 | 102 | 103 | 24 |
| 3/10 | 101 | 102 | 102 | 24 | | | | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 |
| 3/11 | 101 | 101 | 102 | 24 | | | | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 |
| 3/12 | 101 | 101 | 101 | 24 | | | | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 102 | 24 | 102 | 103 | 104 | 24 |
| 3/13 | 101 | 102 | 102 | 24 | | | | 0 | 103 | 103 | 104 | 24 | 102 | 102 | 103 | 24 | 102 | 103 | 104 | 24 |
| 3/14 | 102 | 102 | 102 | 24 | | | | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 109 | 24 | 103 | 103 | 104 | 24 |
| 3/15 | 103 | 105 | 105 | 24 | | | | 0 | 102 | 102 | 103 | 24 | 104 | 104 | 113 | 24 | 104 | 103 | 107 | 24 |
| 3/16 | 104 | 104 | 105 | 24 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/17 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | 102 | 102 | 102 | 24 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/20 | 101 | 101 | 101 | 15 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/21 | 101 | 102 | 102 | 24 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/22 | 102 | 102 | 102 | 24 | | | | 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 Co | olumbia and Snake River Sites |
|---|-------------------------------|
|---|-------------------------------|

| | Pries | t R. D | nst_ | | Pasc. | | | | Dwor | <u>shak</u> | | | Clear | water | | | Anato | <u>one</u> | | |
|-------------|--------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
| | <u>24 h</u> | <u>12 h</u> | | # | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| <u>Date</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> |
| 3/9 | 103 | 103 | 103 | 24 | | | | 0 | 97 | 98 | 98 | 24 | | | | 0 | 102 | 102 | 102 | 24 |
| 3/10 | 103 | 103 | 104 | 24 | | | | 0 | 97 | 97 | 97 | 24 | | | | 0 | 102 | 103 | 104 | 24 |
| 3/11 | 103 | 103 | 104 | 24 | | | | 0 | 97 | 97 | 97 | 24 | | | | 0 | 102 | 102 | 103 | 14 |
| 3/12 | 103 | 103 | 104 | 24 | | | | 0 | 97 | 97 | 98 | 24 | | | | 0 | 102 | 103 | 103 | 24 |
| 3/13 | 104 | 104 | 105 | 24 | | | | 0 | 97 | 98 | 98 | 24 | | | | 0 | 103 | 103 | 104 | 24 |
| 3/14 | 104 | 104 | 106 | 24 | | | | 0 | 98 | 98 | 98 | 24 | | | | 0 | 102 | 103 | 103 | 24 |
| 3/15 | 106 | 106 | 110 | 24 | | | | 0 | 97 | 97 | 97 | 21 | | | | 0 | 102 | 103 | 104 | 24 |
| 3/16 | | | | 0 | | | | 0 | 98 | 98 | 98 | 24 | | | | 0 | 102 | 102 | 102 | 24 |
| 3/17 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | | | | 0 | | | | 0 | 97 | 98 | 98 | 21 | | | | 0 | 102 | 102 | 103 | 21 |
| 3/20 | | | | 0 | | | | 0 | 97 | 98 | 103 | 19 | | | | 0 | 102 | 102 | 103 | 21 |
| 3/21 | | | | 0 | | | | 0 | 96 | 97 | 97 | 24 | | | | 0 | 102 | 103 | 104 | 24 |
| 3/22 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |

Total Dissolved Gas Saturation Data at Snake River Sites

| 5 | Snak | e-Lew | <u>iston</u> | | Lowe | r Gran | <u>nite</u> | | L. Gr | anite 1 | <u>lwr</u> | | Little | Goos | <u>e</u> | | L. Go | ose T | lwr | |
|-------------|-------------|-------------|--------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
| 2 | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | # | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| <u>Date</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | Avg | Avg | <u>High</u> | <u>hr</u> | Avg | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> |
| 3/9 | | | | 0 | 100 | 100 | 101 | 24 | 100 | 100 | 100 | 24 | | | | 0 | | | | 0 |
| 3/10 | | | | 0 | 100 | 101 | 101 | 24 | 99 | 99 | 100 | 13 | | | | 0 | | | | 0 |
| 3/11 | | | | 0 | 100 | 101 | 101 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/12 | | | | 0 | 101 | 101 | 101 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/13 | | | | 0 | 102 | 103 | 104 | 24 | 100 | 100 | 101 | 13 | | | | 0 | | | | 0 |
| 3/14 | | | | 0 | 102 | 102 | 103 | 24 | 101 | 102 | 102 | 24 | | | | 0 | | | | 0 |
| 3/15 | | | | 0 | 102 | 103 | 104 | 24 | 101 | 102 | 102 | 24 | | | | 0 | | | | 0 |
| 3/16 | | | | 0 | 102 | 103 | 103 | 24 | 102 | 102 | 103 | 24 | | | | 0 | | | | 0 |
| 3/17 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | | | | 0 | 102 | 102 | 102 | 21 | 101 | 101 | 101 | 21 | | | | 0 | | | | 0 |
| 3/20 | | | | 0 | 100 | 101 | 101 | 16 | 100 | 100 | 100 | 16 | 101 | 101 | 103 | 5 | 100 | 100 | 101 | 6 |
| 3/21 | | | | 0 | 101 | 101 | 102 | 24 | 101 | 101 | 102 | 24 | 101 | 102 | 102 | 24 | 101 | 101 | 101 | 24 |
| 3/22 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |

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

| Low | er Mor | <u>1.</u> | | L. Mo | n. Tlw | <u>/r</u> | | Ice H | <u>arbor</u> | | | Ice H | arbor | Tlwr | | <u>McNa</u> | ry-Or | <u>egon</u> | |
|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------------|--------------|------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
| <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> | <u>24 h</u> | <u>12 h</u> | | <u>#</u> |
| Date Avg | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | High | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | Avg | Avg | High | <u>hr</u> |
| 3/9 | | | 0 | | | | 0 | 101 | 101 | 101 | 24 | 102 | 102 | 102 | 24 | 102 | 103 | 103 | 24 |
| 3/10 | | | 0 | | | | 0 | 101 | 101 | 102 | 12 | 101 | 101 | 102 | 12 | 102 | 103 | 104 | 24 |
| 3/11 | | | 0 | | | | 0 | 101 | 101 | 102 | 24 | 102 | 102 | 102 | 24 | 101 | 102 | 102 | 24 |
| 3/12 | | | 0 | | | | 0 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 | 102 | 103 | 104 | 23 |
| 3/13 | | | 0 | | | | 0 | 101 | 101 | 102 | 12 | 102 | 102 | 102 | 12 | 103 | 103 | 104 | 17 |
| 3/14 | | | 0 | | | | 0 | 101 | 101 | 102 | 24 | 102 | 102 | 102 | 24 | 103 | 103 | 103 | 18 |
| 3/15 | | | 0 | | | | 0 | 101 | 102 | 102 | 24 | 101 | 102 | 102 | 24 | 104 | 105 | 107 | 20 |
| 3/16 | | | 0 | | | | 0 | 102 | 103 | 103 | 24 | 102 | 102 | 103 | 24 | 103 | 104 | 104 | 23 |
| 3/17 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | | | 0 | | | | 0 | 101 | 101 | 102 | 6 | 101 | 101 | 102 | 6 | 103 | 103 | 103 | 3 |
| 3/20 | | | 0 | | | | 0 | 100 | 100 | 100 | 16 | 100 | 100 | 101 | 16 | 101 | 101 | 102 | 8 |
| 3/21 101 | 101 | 101 | 12 | 100 | 100 | 100 | 2 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 24 | 102 | 102 | 102 | 7 |
| 3/22 | | | 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 River Sites

| | McNa | ary-Wa | ash_ | | McNa | ry Tlw | <u>/r</u> | | <u>John</u> | Day | | | John | Day 7 | Γlwr | | The I | Dalles | | |
|-------------|-------------|--------|-------------|-----------|-------------|------------|-------------|-----------|-------------|------------|-------------|-----------|------------|------------|-------------|-----------|------------|------------|-------------|-----------|
| | <u>24 h</u> | 12 h | | <u>#</u> | <u>24 h</u> | 12 h | | # | <u>24h</u> | <u>12h</u> | | # | <u>24h</u> | <u>12h</u> | | # | <u>24h</u> | <u>12h</u> | | <u>#</u> |
| <u>Date</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>AVG</u> | <u>High</u> | <u>hr</u> |
| 3/9 | 103 | 103 | 103 | 24 | 103 | 103 | 103 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/10 | 103 | 104 | 104 | 24 | 103 | 104 | 104 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/11 | 102 | 103 | 104 | 24 | 103 | 103 | 103 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/12 | 103 | 104 | 104 | 24 | 103 | 103 | 103 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/13 | 104 | 105 | 106 | 21 | 104 | 105 | 105 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/14 | 104 | 104 | 105 | 23 | 104 | 104 | 105 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/15 | 104 | 104 | 105 | 19 | 103 | 104 | 104 | 22 | | | | 0 | | | | 0 | | | | 0 |
| 3/16 | 105 | 105 | 106 | 16 | 104 | 104 | 104 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/17 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/20 | 102 | 102 | 103 | 8 | 102 | 102 | 102 | 8 | | | | 0 | | | | 0 | | | | 0 |
| 3/21 | 104 | 104 | 105 | 24 | 103 | 104 | 104 | 24 | | | | 0 | | | | 0 | | | | 0 |
| 3/22 | 105 | 105 | 105 | 24 | 105 | 106 | 110 | 24 | | | | 0 | | | | 0 | | | | 0 |

| Total Dissolved Gas | Saturation | Data at Lower | Columbia | River Sites |
|---------------------|------------|---------------|----------|-------------|
|---------------------|------------|---------------|----------|-------------|

| The | Dalles | Dnst | | Bonn | <u>eville</u> | | | Warre | endale | <u>!</u> | | Skam | <u>ania</u> | | | Cama | as\Wa | shugal | <u> </u> |
|-------------|------------|-------------|-----------|-------------|---------------|-------------|-----------|------------|------------|-------------|-----------|------------|-------------|-------------|-----------|------------|------------|-------------|-----------|
| <u>24 h</u> | 12 h | • | # | <u>24 h</u> | 12 h | | # | <u>24h</u> | <u>12h</u> | | # | <u>24h</u> | <u>12h</u> | | <u>#</u> | <u>24h</u> | <u>12h</u> | | <u>#</u> |
| Date Avg | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | Avg | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> | <u>Avg</u> | <u>Avg</u> | <u>High</u> | <u>hr</u> |
| 3/9 | | | 0 | 102 | 102 | 102 | 24 | 103 | 104 | 111 | 24 | 103 | 103 | 108 | 24 | 102 | 103 | 103 | 23 |
| 3/10 | | | 0 | 102 | 102 | 102 | 24 | 115 | 116 | 117 | 24 | 109 | 110 | 110 | 24 | 105 | 108 | 109 | 23 |
| 3/11 | | | 0 | 101 | 101 | 102 | 24 | 116 | 116 | 116 | 24 | 110 | 111 | 113 | 24 | 110 | 111 | 111 | 23 |
| 3/12 | | | 0 | 102 | 102 | 102 | 24 | 116 | 117 | 117 | 24 | 111 | 112 | 112 | 24 | 112 | 112 | 113 | 23 |
| 3/13 | | | 0 | 102 | 103 | 103 | 24 | 116 | 117 | 117 | 24 | 112 | 112 | 113 | 24 | 111 | 112 | 112 | 23 |
| 3/14 | | | 0 | 102 | 102 | 102 | 24 | 115 | 116 | 116 | 24 | 109 | 110 | 111 | 24 | 111 | 111 | 112 | 23 |
| 3/15 | | | 0 | 102 | 102 | 103 | 22 | 116 | 117 | 118 | 22 | 111 | 112 | 112 | 22 | 111 | 111 | 111 | 22 |
| 3/16 | | | 0 | 102 | 102 | 103 | 24 | 115 | 116 | 117 | 24 | 109 | 111 | 111 | 24 | 110 | 111 | 111 | 23 |
| 3/17 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/18 | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| 3/19 | | | 0 | 102 | 102 | 102 | 24 | 102 | 102 | 103 | 24 | 102 | 102 | 103 | 24 | 102 | 102 | 102 | 23 |
| 3/20 | | | 0 | 101 | 101 | 102 | 18 | 102 | 102 | 103 | 18 | 102 | 102 | 104 | 18 | 101 | 102 | 103 | 19 |
| 3/21 | | | 0 | 102 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | 103 | 104 | 105 | 24 | 103 | 104 | 104 | 23 |
| 3/22 | | | 0 | 103 | 103 | 103 | 24 | 103 | 103 | 104 | 24 | 103 | 103 | 104 | 24 | 103 | 103 | 103 | 23 |

Hatchery Release Summary From 3/10/00 to 3/23/00

| Hatchery | Spe | ecies | Migration Year | Number Released | Release Begin | | Release Site | River Name |
|---------------|-----------|--------------|---------------------|-----------------------------|----------------------|------------|-------------------------|---------------------------------------|
| | | | | | II | DFG | | |
| Clearwate | | | | | | | | |
| Danid Div | SP | Chinook | 2000 | 462,949 | 03/06/00 | 03/10/00 | Rapid R | Little Salmon River |
| Rapid Riv | /er SP | Chinook | 2000 | 2 463 000 | 03/16/00 | 04/15/00 | Rapid River H | Little Salmon River |
| | ٠. | · | Agency Totals: | | | 0 1, 10,00 | rapia rarorri | |
| | | | | | Nez Pe | erce Trib | e | |
| Willard | | 0.1 | 0000 | 005.000 | 00/45/00 | 00/45/00 | | 01 |
| | | Coho Coho | 2000 2000 | , | 03/15/00 03/17/00 | | Lapwai Cr Potlatch R | Clearwater Rvr M F Clearwater Rvr M F |
| | | CONO | Agency Totals: | 530,000 | | 03/11/00 | 1 ollatori i | Olcarwater IVI IVI |
| | | | | | 0 | DFW | | |
| Imnaha | | | | | | | | |
| | SP | Chinook | 2000 | , | | 04/18/00 | Imnaha Acclim Pd | Imnaha River |
| | | | Agency Totals: | 180,000 | | illa Tribe | 2 | |
| Cascade | | | | | Jiiiat | | | |
| | | Coho | 2000 | 250,000 | 03/15/00 | 03/15/00 | Umatilla R | Umatilla River |
| Lower He | erma | n C | | | | | | |
| | | Coho | 2000 Agency Totals: | 500,000 750,000 | 03/15/00 | 03/15/00 | Umatilla R | Umatilla River |
| | | | Agency rotals. | 750,000 | | SFWS | | |
| Dworshal | k | | | | 0. | 31 110 | | |
| | SP | Chinook | 2000 | 1,030,000 | 03/22/00 | 04/07/00 | Dworshak H | Clearwater Rvr M F |
| | | | Agency Totals: | 1,030,000 | | | | |
| I/I: a laitat | | | | | VV | DFW | | |
| Klickitat | SP | Chinook | 2000 | 563 000 | 03/01/00 | 03/24/00 | Klickitat H | Klickitat River |
| Lyons Fe | _ | Omnook | 2000 | 000,000 | 00/01/00 | 00/2-700 | Modicati | Michiae Mivel |
| • | FΑ | Chinook | 2000 | 450,000 | 03/22/00 | 04/15/00 | Lyons Ferry H | Snake River |
| Tucannoi | | | | | | | | |
| | SP | Chinook | 2000 Agency Totals: | 128,000 1,141,000 | 03/10/00 | 04/20/00 | Curl Lake | Tucannon River |
| | | | Agency rotals. | 1,141,000 | Warm S | Spgs Tril | be | |
| Round Bu | utte | | | | | -1-3 | | |
| | SP | Chinook | 2000 | 4,200 | 03/20/00 | 03/20/00 | Parkdale Acclim Pd | Hood River |
| | | | Agency Totals: | 4,200 | | - | | |
| Clark Elst | | | | | Yakaı | ma Tribe | • | |
| Clark Flat | SP | Chinook | 2000 | 229 000 | 03/15/00 | 06/01/00 | Clark Flat Acclim Pd | Yakama River |
| Easton P | _ | Jilliook | 2000 | 225,000 | 33/13/00 | 30/01/00 | Oldin Flat Addilli Fu | i altailla itivoi |
| | SP | Chinook | 2000 | , | 03/15/00 | 06/01/00 | Easton Pd | Yakama River |
| | | | Agency Totals: | 465,800 | | | | |
| | | | Total Release | | | 7,026,949 | | |
| | | | | | | | | |

Hatchery Release Summary From 3/24/00 to 4/6/00

| | | | | FIOII | 1 3/24/00 (| 0 4/6/00 | | |
|-----------|--------------------|------------------------|---------------------------------|--------------------------|----------------------|----------------|-----------------------------------|----------------------------------|
| Hatchery | Spe | ecies | Migration Year | Number Released | Releas Begin | e Dates End | Release Site | River Name |
| | | | | | I | DFG | | |
| Magic Va | I ley SU | Steelhead | d 2000 | 52 000 | 04/03/00 | 05/12/00 | Squaw Cr Acclim Pd | Salmon River |
| McCall | | Cioonioac | 2 2000 | 02,000 | 0 1/ 00/ 00 | 00/12/00 | oquan or mount i | |
| | SU SU | Chinook | 2000 | • | 04/03/00 | | S Fk Salmon R | Salmon River |
| Niagara S | | Chinook as | 2000 | 021,000 | 04/03/00 | 04/07/00 | S Fk Salmon R | Salmon River |
| _ | SU | Steelhead | 2000 | 600,000 | 03/27/00 | 04/08/00 | Hells Canyon Dam | Snake River |
| Sawtooth | SP | Chinaal | 2000 | 104 500 | 04/04/00 | 04/04/00 | Courte oth II | Colmon Divor |
| | 31 | Chinook | Agency Totals: | 1,792,900 | 04/04/00 | 04/21/00 | Sawtooth H | Salmon River |
| | _ | | | | Nez Pe | erce Trib | е | |
| Lookingg | lass SP | Chinook | 2000 | 35,000 | 04/01/00 | 04/19/00 | Lostine Accim Pd | Wallowa River |
| McCall | SF | CHIHOOK | 2000 | 35,000 | 04/01/00 | 04/16/00 | Lostine Accim Pu | Wallowa Rivel |
| | SU | Chinook | 2000 | -, | 03/27/00 | 03/29/00 | Johnson Cr | South Fork Salmon River |
| | | | Agency Totals: | 114,000 | | DFW | | |
| Lookingg | lass | i | | | J | J. ** | | |
| | SP | Chinook | 2000 | 38,000 | 04/01/00 | 04/18/00 | Catherine Cr | Grande Ronde River |
| Round Bu | utte SU | Steelhead | d 2000 | 161 000 | 04/04/00 | 04/14/00 | Bel. Pelton Dam | Deschutes River |
| Wallowa | 30 | Steemeat | 2000 | 101,000 | 04/04/00 | 04/14/00 | Del. I elloli Dalli | Descriutes (tive) |
| | SU | Steelhead | | | 04/05/00 | 04/07/00 | Wallowa Acclim Pd | Wallowa River |
| | | | Agency Totals: | 547,000 | | illa Tribe | | |
| Minthorn | | | | | Omat | ilia IIIbo | • | |
| | SU | Steelhead | | | 04/03/00 | | Minthorn Acclim Pd | Umatilla River |
| | SU | Steelhead | 2000 Agency Totals: | 50,000 100,000 | 04/03/00 | 04/10/00 | Bonifer Acclim Pd | Umatilla River |
| | | | 3, | , | | SFWS | | |
| Entiat | 0.0 | Object | 0000 | 000 000 | 0.4/0.4/0.0 | 04/04/00 | Factoria | Fatial Piece |
| Hagerma | SP n | Chinook | 2000 | 363,000 | 04/01/00 | 04/01/00 | Entiat H | Entiat River |
| J | SU | Steelhead | 2000 | | 04/03/00 | | Little Salmon R | Salmon River |
| | SU SU | Steelhead Steelhead | | | 04/03/00 04/03/00 | | Little Salmon R Hazard Cr | Salmon River Little Salmon River |
| Kooskia | 30 | Steemeat | 2000 | 30,000 | 04/03/00 | 04/00/00 | riazaiù Oi | Little Gairnon Kiver |
| | SP | Chinook | 2000 | | 03/30/00 | | Clear Cr | Clearwater Rvr M F |
| Warm Sp | SP rina: | Chinook S | 2000 | 379,000 | 04/01/00 | 04/10/00 | Kooskia H | Clearwater Rvr M F |
| | SP | Chinook | 2000 | | 03/25/00 | 04/19/00 | Warm Springs R | Deschutes River |
| Lucas = | | | Agency Totals: | 1,922,000 | | DFW | | |
| Lyons Fe | rry SU | Steelhead | 2000 | 125.000 | 03/25/00 | | Dayton Acclim Pd | Touchet River |
| | SU | Steelhead | | | 03/25/00 | | Cottonwood Acclim Pd | Grande Ronde River |
| Washoug | al | Coho | 2000 | 2 500 000 | 02/27/00 | 04/04/00 | Klinkitat D | Klickitot Divor |
| Wells | | Coho | 2000 | 2,500,000 | 03/27/00 | 04/04/00 | Klickitat R | Klickitat River |
| | SU | Chinook | 2000 | | 04/01/00 | 04/25/00 | | Okanogan River |
| | SU SU | Steelhead Steelhead | | | 04/03/00 04/03/00 | 04/30/00 | Methow R Similkameen Acclim Pd | Methow River Okanogan River |
| | SU | Steelhead | | | 04/03/00 | | Okanogan R | Okanogan River Okanogan River |
| | SU | Steelhead | | | 04/03/00 | 04/30/00 | | Methow River |
| | SU | Steelhead | 2000 | 140,000 | 04/03/00 | | Chewuch R | Methow River |
| | | | Agency Totals: | 3,744,000 | | ma Tribe | <u> </u> | |
| Jack Cree | k Po | ond | | | · and | | | |
| | SP | Chinook | 2000 | | 03/31/00 | 06/01/00 | Jack Creek Acclim Pd | Yakama River |
| | | | Agency Totals: Total Release | 137,500 8,357,400 | | | | |
| | | | . J.a. 1\515436 | 0,337,400 | | | | |

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) |
| 03/11/00 | | 7 | | | | | | | | | 2,692 |
| 03/12/00 | | 6 | | | | | | | | | 903 |
| 03/13/00 | 414 | 7 | 3 | 0 | | | | | | | 925 |
| 03/14/00 | 339 | 19 | 4 | 4 | | | | | | | 446 |
| 03/15/00 | 144 | 50 | 1 | 1 | | | | | | | 143 |
| 03/16/00 | 515 | 12 | 6 | 1 | | | | | | | 144 |
| 03/17/00 | 549 | 26 | 8 | 5 | | | | | | | 112 |
| 03/18/00 | | 72 | | | | | | | - | | 100 |
| 03/19/00 | | 56 | | | | | | | | | 181 |
| 03/20/00 | 901 | 71 | 4 | 0 | | | | | | | 117 |
| 03/21/00 | 682 | 33 | 7 | 0 | | | | | - | | 87 |
| 03/22/00 | 628 | 28 | 9 | 0 | | | | | - | | 73 |
| 03/23/00 | 212 | 18 | 13 | 0 | | | | | - | | 95 |
| 03/24/00 | | | | | | | | | - | | |
| Total: | 4,384 | 405 | 55 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 6,018 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Average: | 487 | 31 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 463 |

COMBINED SUBYEARLING CHINOOK

| | | | | | | -, | | | | | |
|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|-----------|
| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 |
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) |
| 03/11/00 | | 0 | | | | | | | | | 516,102 |
| 03/12/00 | | 0 | | | | | | | | | 1,104,556 |
| 03/13/00 | 0 | 0 | 0 | 0 | | | | | | | 47,187 |
| 03/14/00 | 0 | 0 | 0 | 0 | | | | | | | 22,308 |
| 03/15/00 | 0 | 0 | 0 | 0 | | | | | | | 7,019 |
| 03/16/00 | 0 | 0 | 0 | 0 | | | | i | 1 | | 7,286 |
| 03/17/00 | 0 | 1 | 0 | 0 | | | | | | | 3,236 |
| 03/18/00 | | 0 | | | | | | | | | 2,275 |
| 03/19/00 | | 0 | | | | | | i | 1 | | 2,108 |
| 03/20/00 | 0 | 0 | 0 | 0 | | | | - | | | 1,370 |
| 03/21/00 | 0 | 0 | 0 | 0 | | | | | | | 2,083 |
| 03/22/00 | 0 | 0 | 0 | 0 | | | | | | | 2,128 |
| 03/23/00 | 0 | 0 | 0 | 0 | | | | - | | | 1,961 |
| 03/24/00 | | | | | | | | - | - | | |
| Total: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,719,619 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132,278 |

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) |
| 03/11/00 | | 0 | | | | | | | | | 0 |
| 03/12/00 | | 0 | | | | | | | | | 0 |
| 03/13/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/14/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/15/00 | 0 | 0 | 0 | 0 | | | | | | | 11 |
| 03/16/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/17/00 | 0 | 0 | 0 | 0 | - | | - | | | | 0 |
| 03/18/00 | | 0 | | | - | - | - | - | - | | 0 |
| 03/19/00 | | 0 | | | - | | - | | | | 0 |
| 03/20/00 | 0 | 0 | 0 | 1 | - | | - | | | | 17 |
| 03/21/00 | 0 | 0 | 0 | 1 | - | - | - | - | - | | 0 |
| 03/22/00 | 0 | 0 | 0 | 0 | - | - | - | - | - | | 0 |
| 03/23/00 | 0 | 0 | 0 | 5 | - | | - | | | | 19 |
| 03/24/00 | | | | | - | - | - | 1 | - | | |
| Total: | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Average: | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |

COMBINED STEELHEAD

| | WTB | IMN | GRN | LEW | LGR | LGS | LMN | RIS | MCN | JDA | BO2 |
|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Date | (Coll) | (Coll) | (Coll) | (Coll) | (INDEX) |
| 03/11/00 | | 0 | | | | | | | | | 0 |
| 03/12/00 | | 0 | | | | | | | | | 0 |
| 03/13/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/14/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/15/00 | 0 | 1 | 0 | 2 | | | | | | | 0 |
| 03/16/00 | 0 | 0 | 1 | 0 | | | | | | | 0 |
| 03/17/00 | 0 | 0 | 0 | 1 | | | | | | | 22 |
| 03/18/00 | | 0 | | | - | - | - | | - | | 0 |
| 03/19/00 | | 0 | | | | | | | | | 0 |
| 03/20/00 | 0 | 0 | 0 | 0 | | | | | | | 17 |
| 03/21/00 | 0 | 0 | 0 | 0 | - | - | - | | - | | 0 |
| 03/22/00 | 0 | | 0 | 0 | | | | | | | 36 |
| 03/23/00 | 0 | 0 | 1 | 0 | | | | | | | 38 |
| 03/24/00 | | | | | | | | | | | |
| Total: | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| # Days: | 9 | 12 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |

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) |
| 03/11/00 | | 0 | | | | | | | | | 0 |
| 03/12/00 | | 0 | | | | | | | | | 0 |
| 03/13/00 | 0 | 0 | 0 | 0 | | | | | | | 463 |
| 03/14/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/15/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/16/00 | 1 | 0 | 0 | 0 | | | | | | | 0 |
| 03/17/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/18/00 | | 0 | | | | | | | | | 0 |
| 03/19/00 | | 0 | | | | | | | | | 0 |
| 03/20/00 | 0 | 0 | 0 | 0 | | - | | i | | | 0 |
| 03/21/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/22/00 | 0 | 0 | 0 | 0 | | | | | | | 0 |
| 03/23/00 | 0 | 0 | 0 | 0 | | | | | | | |
| 03/24/00 | | | | | | | | | | | |
| Total: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 463 |
| # Days: | 9 | 13 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |

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)}

LEW and WTB data collected for the FPC by Idaho Dept. of Fish and Game.

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 03/22

| | | hino | ok | | | Su | mme | r Chin | ook | | Fall Chinook | | | | | | | | |
|-----|-------|------|-------|------|-------|------------|-------|--------|-------|------|--------------|------------|-------|------|-------|------|-------|------------|--|
| | 2000 | | 199 | 1999 | | 10-Yr Avg. | | 2000 | | 1999 | | 10-Yr Avg. | | 2000 | | 1999 | | 10-Yr Avg. | |
| DAM | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | |
| BON | 83 | 3 | 50 | 1 | 91 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| TDA | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| JDA | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| MCN | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| IHR | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| LMN | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| LGS | 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 | | | | | |
| RIS | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| RRH | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |
| WEL | 0 | 0 | | | | | 0 | 0 | | | | | 0 | 0 | | | | | |

| | | | Со | ho | | | S | ockey | re | Steelhead | | | | |
|-----|-------|------|-------|------|------------|------|------|-------|------|-----------|-------|-------|------|--|
| | 2000 | | 1999 | | 10-Yr Avg. | | | 10-Yr | | | | 10-Yr | Wild | |
| DAM | Adult | Jack | Adult | Jack | Adult | Jack | 2000 | 1999 | Avg. | 2000 | 1999 | Avg. | 2000 | |
| BON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 337 | 198 | 282 | 171 | |
| TDA | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| JDA | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| MCN | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| IHR | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| LMN | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| LGS | 0 | 0 | | | ** | ** | 0 | | ** | 0 | | ** | 0 | |
| LWG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 970 | 1,522 | 1,373 | 146 | |
| PRD | 0 | 0 | | | | | 0 | | | 0 | | | *** | |
| RIS | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| RRH | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |
| WEL | 0 | 0 | | | | | 0 | | | 0 | | | 0 | |

Note: LGR is through 03/21 and 03/13 and 03/14's data is missing.

Note: LGR's fish ladder was down on 03/22 and 03/23.

These numbers were collected from the COE's Running Sums text files.

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.

^{**}Adult count records at Little Goose Dam have been maintained since 1991, visual counts were not conducted at Little Goose Dam between 1982 and 1990.

^{***}PRD is not reporting Wild Steelhead numbers.