



Fish Passage Center

Weekly Report #02 - 28

September 20, 2002

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NOTE: This is the last issue of the Weekly report. The next issue will be on **October 4 and will be BiWeekly through **October**.**

Water: River flows within the Columbia Basin have been low for approximately the last seven weeks. Currently, storage reservoirs along the Columbia and Snake Rivers have either been holding steady or drafting.

Grand Coulee has filled 1.7 feet over the last week; beginning the week at 1286.0 feet (9-13-02) and ending at 1287.7 feet (9-19-02). Total outflows over the past week (9-13-02 to 9-19-02) have averaged 70.5 Kcfs.

The Libby Reservoir has held relatively steady over the past week (9-13-02 to 9-19-02); reservoir elevations have ranged from 2441.4 to 2441.7 feet. Outflows have been steady at 6.0 Kcfs over the last week. Currently (9-19-02), Libby is at an elevation of 2441.4 feet. September operations at Libby include drafting approximately 140 Kaf of reservoir water.

The Dworshak Reservoir has also held steady over the past week (9-13-02 to 9-19-02). Over the week, total outflows at Dworshak have ranged between 1.5 and 1.6 Kcfs (9-13-02 to 9-19-02). Currently (midnight, 9-19-02) Dworshak is at an elevation of 1519.1 feet. Dworshak is currently operating at the minimum project discharge and will continue to draft slightly through September.

Over the past week the Brownlee reservoir has drafted 3.6 feet, beginning the week at 2053.0 and ending the week at 2049.4 feet. During the week, outflows have varied between 11.3 and 18.1 Kcfs.

The Hungry Horse Reservoir has drafted 4.5 feet over the past week; beginning the week at an elevation of 3544.0 feet and ending the week at 3539.5 feet. Total outflows at Hungry Horse have been steady at 4.0 Kcfs over the last week (9-13-02 to 9-19-02). Currently (midnight, 9-19-02) Hungry Horse is at an elevation of 3539.5 feet.

As of September 19th, 2002, the entire Upper Snake River system is at 14% of capacity. Individually, American Falls is at 4% of capacity, Palisades is at 6% of capacity and Jackson Lake is at 33% of capacity.

The Boise and Payette River systems are currently (9-19-02) at 26% and 55% of capacity, respectively. Within these basins, the Cascade Reservoir is at 60% of full and Anderson Ranch is at 30% of full.

Smolt Monitoring: Low numbers of subyearling chinook are being captured at the dams in the Lower Snake River and Columbia River as the overall number of migrants continues to decline. At Lower Granite the number of subyearling chinook was virtually the same as last week with the average daily index at 600 this week compared to 600 last week. At other Snake River dams the numbers of subyearlings were mixed with a slight increase at Little Goose and a continued to decrease at Lower Monumental; the average weekly indices at the two sites were 51 and 83 respectively. At Rock Island Dam, in the mid-Columbia, the smolt monitoring ended for the season on August 31. In the lower Columbia, the passage index decreased at McNary from 1,600 per day last week to 700 per day this week. Sampling ended at John Day Dam on the 15th. And at Bonneville Dam subyearling chinook numbers were down, with an average daily index this week of 240 versus 650 last week.

Adult Fish Passage: At Bonneville Dam, counts of adult fall chinook ranged between 14,000 fish per day at the beginning of the week to about 5,000 fish per day at the end of the week, with the cumulative count through September 12 at 424,571. This year's count of adult fall chinook was about 1.2 and 2.4 times greater than the respective year 2001 and 10-year average. The adult fall chinook passage at Bonneville Dam has peaked and daily passage has begun to taper off. At The Dalles, 199,184 Upriver Bright (URB) fall chinook have been counted with 98,636 now past McNary Dam. Passage of fall chinook at Ice Harbor Dam ranged between 100 and 200 per day for the week with the total through September 17 of 9,442. This year's count is about 1.5 times and 3.8 times greater than the respective 2001 and 10-year average. At Priest Rapids Dam, 17,709 adult fall chinook were counted through September 19. A large percentage of the wild component of the upriver run will be destined for the Hanford Reach area (below Priest Rapids Dam) of the Mid-Columbia River. To date this season's run of fall chinook, both the tule and bright stocks have been strong and remain well above the 10-year

average similar to the performance of the spring and summer run chinook races.

Steelhead passage at Bonneville Dam averaged 4,997 per day through the past week with a total of 415,123 counted through September 19. This total is 72% and 175% of the respective 2001 and 10-year average counts to date. Estimated wild steelhead in the passage total was 130,011 (based on visual missing adipose fin on the steelhead). To date, about 63% of the adult steelhead counted past Bonneville Dam has been counted upstream past The Dalles Dam with daily counts at The Dalles averaging near 5,600 per day. Numbers of adult steelhead counted into the Snake River and past Ice Harbor Dam averaged 2,823 per day with the cumulative count being 84,357 through September 17. In the Mid-Columbia, the counts of steelhead at Priest Rapids Dam ranged from 92-181 per day and totaled 13,084 through September 19. The passage of steelhead into the Snake and Mid-Columbia Rivers was about twice the respective 10-year averages to date. Overall, this season's run of steelhead has been very strong into the Snake and upper Mid-Columbia rivers.

Numbers of adult coho are beginning to increase at Bonneville Dam with the total count at Bonneville Dam of 34,907. Nearly 4,000 of the Bonneville coho have moved upstream past The Dalles Dam to date. A large percent of coho passing above Bonneville Dam remain in the Bonneville pool area and enter tributaries and hatcheries in this section of river.

Hatchery Releases: All hatchery releases for the 2002 fish migration season are completed. The FPC will be updating and finalizing hatchery release groups during the next few months.

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 |
| 09/06/02 | 63.9 | 0.1 | 66.5 | 0.0 | 67.4 | 0.0 | 70.3 | 0.0 | 71.3 | 0.0 | 67.7 | 1.7 | 69.1 | 1.0 |
| 09/07/02 | 54.7 | 0.1 | 52.9 | 0.0 | 54.8 | 0.0 | 53.0 | 0.0 | 54.5 | 0.0 | 61.2 | 1.6 | 62.2 | 1.0 |
| 09/08/02 | 52.0 | 0.1 | 50.8 | 0.0 | 52.5 | 0.0 | 51.5 | 0.0 | 50.9 | 0.0 | 44.7 | 1.8 | 47.2 | 0.7 |
| 09/09/02 | 84.5 | 0.2 | 84.0 | 0.0 | 86.8 | 0.0 | 89.5 | 0.0 | 93.7 | 0.0 | 89.1 | 2.0 | 82.6 | 0.9 |
| 09/10/02 | 64.7 | 0.2 | 70.0 | 0.0 | 73.5 | 0.0 | 72.3 | 0.0 | 72.4 | 0.0 | 81.4 | 1.6 | 84.3 | 0.8 |
| 09/11/02 | 58.9 | 0.2 | 60.2 | 0.0 | 62.6 | 0.0 | 62.9 | 0.0 | 64.6 | 0.0 | 69.9 | 1.6 | 67.2 | 0.8 |
| 09/12/02 | 81.1 | 0.1 | 77.8 | 0.0 | 78.8 | 0.0 | 76.4 | 0.0 | 77.9 | 0.0 | 68.5 | 1.5 | 67.1 | 1.0 |
| 09/13/02 | 75.0 | 0.2 | 78.9 | 0.0 | 77.8 | 0.0 | 77.2 | 1.5 | 76.9 | 0.0 | 73.2 | 2.1 | 69.7 | 1.3 |
| 09/14/02 | 40.6 | 0.1 | 42.3 | 0.0 | 46.4 | 0.0 | 50.2 | 0.2 | 53.8 | 0.0 | 72.2 | 7.3 | 79.0 | 4.4 |
| 09/15/02 | 51.1 | 0.1 | 47.4 | 0.0 | 46.7 | 0.0 | 44.1 | 0.0 | 45.8 | 0.0 | 51.4 | 1.6 | 51.4 | 0.6 |
| 09/16/02 | 77.5 | 0.1 | 78.3 | 0.0 | 80.3 | 0.0 | 79.0 | 0.0 | 79.1 | 0.0 | 69.4 | 1.7 | 60.9 | 0.9 |
| 09/17/02 | 69.0 | 0.1 | 69.4 | 0.0 | 71.0 | 0.0 | 71.5 | 0.0 | 74.9 | 0.0 | 83.4 | 1.6 | 81.9 | 0.9 |
| 09/18/02 | 87.8 | 0.1 | 84.4 | 0.0 | 82.5 | 0.0 | 76.2 | 0.0 | 75.8 | 0.0 | 68.6 | 1.8 | 66.9 | 0.9 |
| 09/19/02 | 92.4 | 0.1 | 98.2 | 0.0 | 99.5 | 2.9 | 95.7 | 0.0 | 96.3 | 0.0 | 99.1 | 2.0 | 101.7 | 1.0 |

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

| Date | Dworshak | | Hells Canyon | | Lower Granite | | Little Goose | | Lower Monumental | | Ice Harbor | |
|----------|----------|-------|--------------|---------|---------------|-------|--------------|-------|------------------|-------|------------|-------|
| | Flow | Spill | Inflow | Outflow | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill |
| 09/06/02 | 10.0 | 0.0 | 8.9 | 9.2 | 27.4 | 0.0 | 26.2 | 0.0 | 27.0 | 0.0 | 25.0 | 0.0 |
| 09/07/02 | 10.0 | 0.0 | 9.2 | 7.5 | 23.5 | 0.0 | 22.5 | 0.0 | 22.7 | 0.0 | 20.8 | 0.0 |
| 09/08/02 | 10.1 | 0.0 | 9.2 | 8.2 | 21.5 | 0.0 | 21.4 | 0.0 | 22.1 | 0.0 | 19.8 | 0.0 |
| 09/09/02 | 10.1 | 0.0 | 9.0 | 8.6 | 24.4 | 0.0 | 25.5 | 0.0 | 25.4 | 0.0 | 24.8 | 0.0 |
| 09/10/02 | 10.1 | 0.0 | 10.0 | 8.6 | 23.8 | 0.0 | 22.0 | 0.0 | 22.4 | 0.0 | 21.3 | 0.0 |
| 09/11/02 | 5.5 | 0.0 | 10.7 | 12.6 | 20.8 | 0.0 | 21.2 | 0.0 | 22.4 | 0.0 | 20.4 | 0.0 |
| 09/12/02 | 1.6 | 0.0 | 10.6 | 15.6 | 21.2 | 0.0 | 20.6 | 0.0 | 19.9 | 0.0 | 19.1 | 0.0 |
| 09/13/02 | 1.6 | 0.0 | 10.9 | 18.1 | 22.0 | 0.0 | 21.6 | 0.0 | 21.5 | 0.0 | 19.8 | 0.0 |
| 09/14/02 | 1.6 | 0.0 | 9.9 | 12.5 | 23.5 | 0.0 | 24.7 | 0.0 | 25.8 | 0.0 | 23.8 | 0.0 |
| 09/15/02 | 1.6 | 0.0 | 10.1 | 14.8 | 18.1 | 0.0 | 16.1 | 0.0 | 15.3 | 0.0 | 15.1 | 0.0 |
| 09/16/02 | 1.6 | 0.0 | 10.4 | 14.6 | 18.9 | 0.0 | 19.0 | 0.0 | 19.8 | 0.0 | 18.2 | 0.0 |
| 09/17/02 | 1.5 | 0.0 | 10.5 | 14.3 | 21.7 | 0.0 | 23.4 | 0.0 | 24.6 | 0.0 | 24.9 | 0.0 |
| 09/18/02 | 1.5 | 0.0 | 9.9 | 12.1 | 18.5 | 0.0 | 18.8 | 0.0 | 19.8 | 0.0 | 18.4 | 0.0 |
| 09/19/02 | 1.5 | 0.0 | --- | --- | 18.4 | 0.0 | 16.5 | 0.0 | 16.8 | 0.0 | 15.3 | 0.0 |

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

| Date | McNary | | John Day | | The Dalles | | Bonneville | | PH1 | PH2 |
|----------|--------|-------|----------|-------|------------|-------|------------|-------|------|------|
| | Flow | Spill | Flow | Spill | Flow | Spill | Flow | Spill | | |
| 09/06/02 | 105.5 | 0.0 | 106.5 | 0.0 | 113.2 | 0.0 | 111.9 | 1.8 | 7.4 | 95.8 |
| 09/07/02 | 93.1 | 0.0 | 87.9 | 0.0 | 90.7 | 0.0 | 95.3 | 2.0 | 1.3 | 85.3 |
| 09/08/02 | 73.0 | 0.0 | 73.6 | 0.0 | 74.5 | 0.0 | 88.1 | 1.4 | 0.0 | 79.8 |
| 09/09/02 | 71.9 | 0.0 | 75.8 | 0.0 | 84.9 | 0.0 | 89.2 | 1.5 | 0.0 | 81.0 |
| 09/10/02 | 120.8 | 0.0 | 113.9 | 0.0 | 110.8 | 0.0 | 108.8 | 1.8 | 9.6 | 90.7 |
| 09/11/02 | 96.8 | 0.0 | 101.6 | 0.0 | 111.2 | 0.0 | 107.4 | 1.7 | 6.3 | 92.5 |
| 09/12/02 | 87.8 | 0.0 | 80.5 | 0.0 | 80.0 | 0.0 | 83.4 | 1.6 | 4.9 | 70.3 |
| 09/13/02 | 80.7 | 0.0 | 72.6 | 0.0 | 79.6 | 0.0 | 81.2 | 1.8 | 9.2 | 63.5 |
| 09/14/02 | 109.2 | 0.0 | 106.9 | 0.0 | 108.8 | 0.0 | 110.0 | 2.1 | 12.7 | 88.5 |
| 09/15/02 | 78.9 | 0.0 | 77.4 | 0.0 | 84.1 | 0.0 | 88.6 | 2.1 | 9.1 | 70.6 |
| 09/16/02 | 67.7 | 0.0 | 67.3 | 0.0 | 70.7 | 0.0 | 80.1 | 2.1 | 8.4 | 63.0 |
| 09/17/02 | 97.9 | 0.0 | 99.9 | 0.0 | 102.7 | 0.0 | 98.8 | 2.0 | 9.5 | 80.5 |
| 09/18/02 | 103.7 | 0.0 | 105.3 | 0.0 | 108.2 | 0.0 | 108.8 | 2.2 | 11.3 | 88.7 |
| 09/19/02 | 201.8 | 0.0 | 101.3 | 0.0 | 108.7 | 0.0 | 110.5 | 2.1 | 10.0 | 91.7 |

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> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High |
| | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | |
| 9/6 | 103 | 103 | 103 | 24 | 105 | 106 | 106 | 24 | 108 | 108 | 108 | 24 | 108 | 108 | 109 | 24 | 106 | 107 | 109 | 24 | | | |
| 9/7 | 103 | 103 | 104 | 24 | 105 | 105 | 106 | 24 | 108 | 108 | 108 | 24 | 109 | 109 | 111 | 9 | 107 | 107 | 108 | 24 | | | |
| 9/8 | 102 | 102 | 102 | 24 | 104 | 104 | 105 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 106 | 106 | 107 | 23 | | | |
| 9/9 | 101 | 101 | 102 | 24 | 103 | 103 | 104 | 24 | 106 | 106 | 106 | 24 | --- | --- | --- | 0 | 105 | 106 | 106 | 23 | | | |
| 9/10 | 101 | 102 | 102 | 24 | 104 | 105 | 105 | 24 | 106 | 107 | 107 | 24 | 135 | 135 | 135 | 2 | 106 | 106 | 107 | 23 | | | |
| 9/11 | 102 | 102 | 103 | 24 | 104 | 104 | 105 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 107 | 107 | 108 | 23 | | | |
| 9/12 | 102 | 103 | 103 | 24 | 104 | 105 | 105 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 107 | 107 | 108 | 23 | | | |
| 9/13 | 102 | 103 | 103 | 24 | 104 | 105 | 106 | 24 | 107 | 107 | 107 | 24 | 135 | 135 | 135 | 1 | 106 | 106 | 106 | 23 | | | |
| 9/14 | 102 | 102 | 103 | 24 | 105 | 105 | 106 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 106 | 106 | 107 | 23 | | | |
| 9/15 | 102 | 103 | 103 | 24 | 106 | 106 | 107 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 106 | 107 | 107 | 23 | | | |
| 9/16 | 103 | 103 | 103 | 23 | 105 | 106 | 114 | 24 | 107 | 107 | 107 | 24 | --- | --- | --- | 0 | 106 | 106 | 107 | 23 | | | |
| 9/17 | 102 | 103 | 103 | 24 | 105 | 106 | 109 | 24 | 106 | 107 | 107 | 24 | --- | --- | --- | 0 | 105 | 105 | 106 | 23 | | | |
| 9/18 | 102 | 102 | 102 | 24 | 103 | 104 | 104 | 24 | 105 | 105 | 106 | 24 | --- | --- | --- | 0 | 104 | 104 | 105 | 23 | | | |
| 9/19 | 102 | 103 | 103 | 24 | 104 | 104 | 105 | 24 | 106 | 106 | 106 | 24 | 104 | 104 | 105 | 11 | 104 | 105 | 106 | 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> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High |
| | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | |
| 9/6 | 107 | 108 | 109 | 24 | 105 | 105 | 106 | 24 | 104 | 105 | 106 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/7 | 106 | 106 | 107 | 7 | 105 | 106 | 106 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/8 | --- | --- | --- | 0 | 105 | 105 | 106 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/9 | --- | --- | --- | 0 | 104 | 104 | 104 | 24 | 103 | 104 | 104 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/10 | --- | --- | --- | 0 | 105 | 106 | 106 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/11 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/12 | --- | --- | --- | 0 | 106 | 107 | 107 | 24 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/13 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/14 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/15 | --- | --- | --- | 0 | 106 | 106 | 108 | 24 | 105 | 106 | 107 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/16 | --- | --- | --- | 0 | 104 | 105 | 105 | 24 | 104 | 105 | 105 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/17 | --- | --- | --- | 0 | 103 | 103 | 104 | 13 | 103 | 103 | 104 | 13 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/19 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |

Total Dissolved Gas Saturation at Mid Columbia River Sites

| Date | <u>Rock Island</u> | | | # | <u>Rock I. Tlwr</u> | | | # | <u>Wanapum</u> | | | # | <u>Wanapum Tlwr</u> | | | # | <u>Priest Rapids</u> | | | # | | | |
|------|--------------------|-------------|------|---|---------------------|-------------|------|---|----------------|-------------|------|----|---------------------|-------------|------|----|----------------------|-------------|------|----|-------------|-------------|------|
| | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High | | <u>24 h</u> | <u>12 h</u> | High |
| | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | | | Avg | Avg | |
| 9/6 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 105 | 106 | 24 | 104 | 105 | 105 | 15 | 103 | 104 | 104 | 24 | | | |
| 9/7 | --- | --- | --- | 0 | --- | --- | --- | 0 | 103 | 103 | 104 | 24 | 103 | 103 | 104 | 12 | 103 | 103 | 104 | 24 | | | |
| 9/8 | --- | --- | --- | 0 | --- | --- | --- | 0 | 101 | 101 | 102 | 24 | 102 | 102 | 103 | 11 | 102 | 102 | 103 | 24 | | | |
| 9/9 | --- | --- | --- | 0 | --- | --- | --- | 0 | 102 | 103 | 104 | 24 | 102 | 102 | 103 | 14 | 102 | 102 | 104 | 24 | | | |
| 9/10 | --- | --- | --- | 0 | --- | --- | --- | 0 | 104 | 106 | 107 | 24 | 103 | 103 | 103 | 14 | 103 | 103 | 104 | 24 | | | |
| 9/11 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 106 | 108 | 24 | 104 | 104 | 104 | 14 | 103 | 104 | 105 | 24 | | | |
| 9/12 | --- | --- | --- | 0 | --- | --- | --- | 0 | 106 | 107 | 108 | 24 | 104 | 104 | 105 | 24 | 104 | 104 | 106 | 24 | | | |
| 9/13 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 106 | 107 | 24 | 104 | 104 | 104 | 24 | 103 | 104 | 104 | 24 | | | |
| 9/14 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 106 | 107 | 24 | 104 | 104 | 105 | 24 | 104 | 104 | 105 | 24 | | | |
| 9/15 | --- | --- | --- | 0 | --- | --- | --- | 0 | 105 | 105 | 106 | 24 | 104 | 104 | 105 | 24 | --- | --- | --- | 0 | | | |
| 9/16 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/17 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/18 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |
| 9/19 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | --- | --- | --- | 0 | | | |

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

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

| Date | Priest R. Dnst | | | # | Pasco | | | # | Dworshak | | | # | Clrwtr-Peck | | | # | Anatone | | | # |
|------|----------------|----------|------|----|----------|----------|------|----|----------|----------|------|----|-------------|----------|------|----|----------|----------|------|---|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 9/6 | 103 | 104 | 105 | 24 | 100 | 100 | 101 | 23 | 101 | 101 | 102 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 9/7 | 103 | 104 | 104 | 24 | 99 | 100 | 100 | 24 | 101 | 101 | 101 | 24 | --- | --- | --- | 0 | --- | --- | --- | 0 |
| 9/8 | 103 | 103 | 104 | 24 | 98 | 99 | 100 | 24 | 100 | 100 | 101 | 24 | 101 | 102 | 103 | 24 | --- | --- | --- | 0 |
| 9/9 | 102 | 103 | 104 | 24 | 97 | 98 | 98 | 24 | 100 | 100 | 100 | 24 | 101 | 102 | 103 | 24 | --- | --- | --- | 0 |
| 9/10 | 103 | 104 | 105 | 24 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 24 | 102 | 103 | 104 | 24 | --- | --- | --- | 0 |
| 9/11 | 104 | 105 | 105 | 24 | 101 | 101 | 102 | 24 | 102 | 103 | 108 | 24 | 103 | 105 | 108 | 24 | --- | --- | --- | 0 |
| 9/12 | 104 | 105 | 105 | 24 | 101 | 101 | 101 | 21 | 106 | 108 | 109 | 24 | 100 | 101 | 101 | 24 | --- | --- | --- | 0 |
| 9/13 | 104 | 104 | 105 | 24 | 101 | 101 | 102 | 24 | 106 | 107 | 108 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 |
| 9/14 | 105 | 105 | 106 | 24 | 101 | 101 | 101 | 24 | 106 | 107 | 108 | 24 | 100 | 100 | 101 | 24 | --- | --- | --- | 0 |
| 9/15 | --- | --- | --- | 0 | 101 | 101 | 101 | 24 | 106 | 107 | 108 | 24 | 100 | 100 | 100 | 24 | --- | --- | --- | 0 |
| 9/16 | --- | --- | --- | 0 | 99 | 100 | 100 | 24 | 106 | 107 | 108 | 24 | 100 | 100 | 101 | 8 | --- | --- | --- | 0 |
| 9/17 | --- | --- | --- | 0 | 99 | 100 | 100 | 24 | 107 | 108 | 108 | 24 | 104 | 104 | 106 | 12 | --- | --- | --- | 0 |
| 9/18 | --- | --- | --- | 0 | 99 | 100 | 100 | 24 | 107 | 108 | 109 | 24 | 103 | 104 | 107 | 24 | --- | --- | --- | 0 |
| 9/19 | --- | --- | --- | 0 | 100 | 101 | 101 | 24 | 107 | 108 | 110 | 24 | 103 | 104 | 107 | 24 | --- | --- | --- | 0 |

Total Dissolved Gas Saturation Data at Snake River Sites

| Date | Clrwtr-Lewiston | | | # | Lower Granite | | | # | L. Granite Tlwr | | | # | Little Goose | | | # | L. Goose Tlwr | | | # |
|------|-----------------|----------|------|----|---------------|----------|------|----|-----------------|----------|------|----|--------------|----------|------|----|---------------|----------|------|----|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 9/6 | 102 | 103 | 105 | 24 | 104 | 104 | 105 | 24 | 101 | 102 | 102 | 24 | 101 | 101 | 102 | 24 | 98 | 99 | 99 | 24 |
| 9/7 | 102 | 103 | 105 | 24 | 103 | 103 | 104 | 24 | 101 | 101 | 101 | 24 | 100 | 100 | 101 | 24 | 98 | 98 | 99 | 24 |
| 9/8 | 101 | 103 | 105 | 24 | 103 | 105 | 107 | 24 | 100 | 100 | 102 | 24 | 99 | 99 | 99 | 24 | 97 | 98 | 98 | 24 |
| 9/9 | 101 | 103 | 105 | 24 | 104 | 105 | 107 | 24 | 99 | 100 | 100 | 24 | 99 | 100 | 102 | 24 | 97 | 97 | 98 | 24 |
| 9/10 | 102 | 104 | 106 | 24 | 105 | 107 | 110 | 24 | 99 | 100 | 101 | 24 | 100 | 101 | 102 | 24 | 97 | 98 | 98 | 24 |
| 9/11 | 102 | 104 | 106 | 24 | 107 | 109 | 113 | 24 | 99 | 100 | 101 | 24 | 100 | 101 | 103 | 24 | 97 | 98 | 98 | 24 |
| 9/12 | 103 | 105 | 108 | 24 | 107 | 107 | 108 | 24 | 99 | 100 | 101 | 24 | 101 | 102 | 104 | 24 | 98 | 98 | 98 | 24 |
| 9/13 | 102 | 105 | 107 | 24 | 106 | 107 | 110 | 24 | 100 | 100 | 102 | 24 | 99 | 100 | 101 | 24 | 98 | 98 | 99 | 24 |
| 9/14 | 102 | 105 | 107 | 24 | 107 | 107 | 109 | 24 | 101 | 101 | 102 | 24 | 105 | 108 | 109 | 24 | 99 | 100 | 100 | 24 |
| 9/15 | 102 | 104 | 106 | 24 | 107 | 108 | 110 | 24 | 101 | 101 | 102 | 24 | 104 | 105 | 106 | 24 | 99 | 99 | 100 | 24 |
| 9/16 | 101 | 102 | 104 | 24 | 103 | 104 | 104 | 24 | 127 | 127 | 127 | 1 | 99 | 100 | 103 | 24 | 97 | 98 | 98 | 24 |
| 9/17 | 101 | 103 | 104 | 24 | 103 | 103 | 103 | 24 | --- | --- | --- | 0 | 98 | 98 | 99 | 24 | 97 | 98 | 98 | 24 |
| 9/18 | 101 | 104 | 106 | 24 | 102 | 102 | 103 | 24 | --- | --- | --- | 0 | 97 | 97 | 98 | 24 | 97 | 98 | 99 | 24 |
| 9/19 | 102 | 105 | 107 | 24 | 102 | 104 | 107 | 24 | --- | --- | --- | 0 | 97 | 97 | 98 | 24 | 98 | 99 | 101 | 24 |

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

| Date | Lower Mon. | | | # | L. Mon. Tlwr | | | # | Ice Harbor | | | # | Ice Harbor Tlwr | | | # | McNary-Oregon | | | # |
|------|------------|----------|------|----|--------------|----------|------|----|------------|----------|------|----|-----------------|----------|------|----|---------------|----------|------|----|
| | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | | 24 h Avg | 12 h Avg | High | |
| 9/6 | 100 | 101 | 102 | 24 | 99 | 100 | 100 | 24 | 100 | 101 | 102 | 24 | 101 | 101 | 102 | 24 | 102 | 103 | 106 | 24 |
| 9/7 | 99 | 100 | 101 | 24 | 99 | 100 | 102 | 24 | 99 | 100 | 100 | 24 | 101 | 101 | 103 | 16 | 101 | 102 | 103 | 24 |
| 9/8 | 99 | 99 | 99 | 24 | 98 | 98 | 99 | 24 | 98 | 98 | 99 | 24 | --- | --- | --- | 0 | 101 | 102 | 104 | 24 |
| 9/9 | 99 | 99 | 102 | 24 | 99 | 101 | 116 | 24 | 99 | 100 | 102 | 24 | --- | --- | --- | 0 | 100 | 101 | 102 | 24 |
| 9/10 | 100 | 101 | 103 | 24 | 98 | 98 | 99 | 10 | 99 | 100 | 103 | 24 | --- | --- | --- | 0 | 101 | 103 | 106 | 24 |
| 9/11 | 100 | 101 | 103 | 24 | --- | --- | --- | 0 | 98 | 99 | 100 | 24 | --- | --- | --- | 0 | 101 | 103 | 104 | 24 |
| 9/12 | 102 | 103 | 104 | 24 | --- | --- | --- | 0 | 100 | 102 | 103 | 24 | --- | --- | --- | 0 | 103 | 104 | 106 | 24 |
| 9/13 | 101 | 102 | 106 | 24 | --- | --- | --- | 0 | 102 | 103 | 104 | 24 | --- | --- | --- | 0 | 103 | 104 | 106 | 24 |
| 9/14 | 103 | 104 | 105 | 24 | --- | --- | --- | 0 | 100 | 101 | 101 | 24 | 101 | 101 | 101 | 16 | 104 | 106 | 108 | 24 |
| 9/15 | 101 | 102 | 102 | 24 | 99 | 99 | 100 | 12 | 102 | 103 | 104 | 24 | 101 | 102 | 103 | 24 | 105 | 105 | 107 | 24 |
| 9/16 | 98 | 99 | 100 | 24 | 98 | 98 | 99 | 23 | 98 | 99 | 100 | 24 | 100 | 100 | 100 | 24 | 102 | 102 | 103 | 24 |
| 9/17 | 98 | 99 | 99 | 24 | 98 | 98 | 99 | 24 | 99 | 100 | 100 | 24 | 99 | 100 | 100 | 24 | 101 | 101 | 101 | 24 |
| 9/18 | 97 | 98 | 98 | 24 | 98 | 98 | 101 | 24 | 98 | 98 | 98 | 24 | 99 | 100 | 101 | 24 | 100 | 100 | 101 | 24 |
| 9/19 | 98 | 98 | 98 | 24 | 98 | 99 | 101 | 24 | 98 | 98 | 99 | 24 | 100 | 101 | 102 | 24 | 100 | 101 | 102 | 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> Avg | <u>12 h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24 h</u> Avg | <u>12 h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24h</u> Avg | <u>12h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24h</u> Avg | <u>12h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24h</u> Avg | <u>12h</u> Avg | <u>High</u> | <u>#</u> hr |
| 9/6 | 102 | 103 | 103 | 24 | 101 | 101 | 102 | 24 | 99 | 100 | 100 | 24 | 100 | 100 | 101 | 24 | 100 | 100 | 100 | 23 |
| 9/7 | 101 | 101 | 102 | 24 | 100 | 101 | 101 | 24 | 99 | 99 | 99 | 24 | 100 | 100 | 101 | 24 | 99 | 99 | 100 | 24 |
| 9/8 | 99 | 100 | 100 | 24 | 99 | 100 | 100 | 24 | 97 | 98 | 98 | 23 | 99 | 100 | 100 | 24 | 98 | 98 | 99 | 23 |
| 9/9 | 101 | 102 | 104 | 24 | 99 | 100 | 100 | 24 | 98 | 98 | 100 | 23 | 100 | 100 | 101 | 24 | 98 | 98 | 99 | 23 |
| 9/10 | 103 | 104 | 105 | 24 | 100 | 101 | 101 | 24 | 99 | 100 | 102 | 23 | 100 | 101 | 103 | 24 | 99 | 100 | 100 | 20 |
| 9/11 | 103 | 104 | 105 | 24 | 100 | 101 | 101 | 24 | 100 | 100 | 101 | 23 | 101 | 102 | 103 | 24 | 100 | 100 | 100 | 17 |
| 9/12 | 102 | 103 | 104 | 24 | 101 | 101 | 102 | 24 | 99 | 100 | 101 | 23 | 102 | 102 | 103 | 24 | 100 | 100 | 101 | 17 |
| 9/13 | 104 | 106 | 108 | 24 | 101 | 102 | 102 | 24 | 100 | 102 | 104 | 23 | 100 | 100 | 101 | 24 | 100 | 100 | 100 | 19 |
| 9/14 | 105 | 106 | 107 | 24 | 102 | 103 | 103 | 24 | 100 | 101 | 101 | 23 | 100 | 100 | 101 | 24 | 100 | 100 | 100 | 21 |
| 9/15 | 104 | 105 | 106 | 24 | 102 | 102 | 103 | 24 | 99 | 99 | 100 | 23 | 100 | 100 | 101 | 24 | 99 | 100 | 100 | 21 |
| 9/16 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 24 | 99 | 99 | 100 | 23 | 101 | 101 | 102 | 24 | 99 | 99 | 99 | 23 |
| 9/17 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 24 | 99 | 99 | 99 | 23 | 100 | 101 | 102 | 24 | 99 | 99 | 99 | 23 |
| 9/18 | 99 | 100 | 100 | 24 | 99 | 100 | 100 | 24 | 98 | 98 | 98 | 23 | 98 | 98 | 99 | 24 | 99 | 99 | 99 | 21 |
| 9/19 | 99 | 100 | 100 | 24 | 99 | 100 | 100 | 24 | 98 | 99 | 99 | 23 | 98 | 99 | 99 | 24 | 99 | 99 | 100 | 22 |

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> Avg | <u>12 h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24 h</u> Avg | <u>12 h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24h</u> Avg | <u>12h</u> Avg | <u>High</u> | <u>#</u> hr | <u>24h</u> Avg | <u>12h</u> Avg | <u>High</u> | <u>#</u> hr |
| 9/6 | 100 | 100 | 101 | 24 | 100 | 100 | 101 | 24 | 101 | 102 | 102 | 24 | 102 | 102 | 103 | 24 |
| 9/7 | 100 | 100 | 100 | 24 | 99 | 99 | 100 | 24 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 24 |
| 9/8 | 99 | 100 | 100 | 24 | 99 | 99 | 99 | 23 | 100 | 100 | 101 | 23 | 100 | 100 | 101 | 24 |
| 9/9 | 100 | 100 | 100 | 24 | 99 | 99 | 100 | 23 | 101 | 102 | 103 | 23 | 100 | 101 | 102 | 24 |
| 9/10 | 100 | 100 | 101 | 24 | 100 | 100 | 100 | 23 | 101 | 101 | 102 | 23 | 102 | 103 | 103 | 24 |
| 9/11 | 100 | 101 | 101 | 24 | 100 | 101 | 101 | 22 | 101 | 102 | 102 | 23 | 102 | 102 | 103 | 24 |
| 9/12 | 100 | 101 | 101 | 24 | 101 | 101 | 101 | 23 | 102 | 102 | 103 | 23 | 102 | 102 | 103 | 24 |
| 9/13 | 101 | 101 | 102 | 24 | 101 | 101 | 101 | 23 | 103 | 104 | 104 | 23 | 102 | 103 | 104 | 24 |
| 9/14 | 101 | 102 | 102 | 24 | 101 | 101 | 101 | 23 | 102 | 102 | 103 | 23 | 102 | 103 | 103 | 24 |
| 9/15 | 101 | 101 | 102 | 24 | 100 | 100 | 101 | 23 | 101 | 101 | 102 | 23 | 101 | 101 | 102 | 24 |
| 9/16 | 100 | 100 | 101 | 24 | 99 | 99 | 100 | 23 | 101 | 101 | 101 | 23 | 100 | 100 | 101 | 24 |
| 9/17 | 100 | 100 | 101 | 24 | 99 | 99 | 100 | 22 | 101 | 101 | 102 | 23 | 100 | 101 | 101 | 24 |
| 9/18 | 99 | 99 | 100 | 24 | 98 | 99 | 99 | 23 | 100 | 100 | 101 | 22 | 100 | 100 | 101 | 24 |
| 9/19 | 100 | 100 | 100 | 24 | 99 | 99 | 100 | 23 | 100 | 101 | 101 | 23 | 100 | 101 | 101 | 24 |

Two-Week Summary of Passage Indices

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

this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

COMBINED YEARLING CHINOOK

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|
| 09/06/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 5 | 0 | 0 |
| 09/07/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/08/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 7 | 0 | 0 |
| 09/09/2002 * | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/10/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/11/2002 | --- | --- | --- | --- | 0 | 0 | 0 | --- | 0 | 0 | 0 |
| 09/12/2002 * | --- | --- | --- | --- | 0 | 0 | 2 | --- | 10 | 0 | 0 |
| 09/13/2002 * | --- | --- | --- | --- | 0 | 0 | 0 | --- | 0 | 0 | 0 |
| 09/14/2002 | --- | --- | --- | --- | 0 | 0 | 2 | --- | 0 | 0 | 0 |
| 09/15/2002 * | --- | --- | --- | --- | 0 | 0 | 0 | --- | 0 | 0 | 0 |
| 09/16/2002 | --- | --- | --- | --- | 0 | 0 | 0 | --- | 0 | 0 | 0 |
| 09/17/2002 | --- | --- | --- | --- | 0 | 0 | 0 | --- | 0 | --- | 0 |
| 09/18/2002 | --- | --- | --- | --- | 0 | 0 | 1 | --- | 0 | --- | 0 |
| 09/19/2002 | --- | --- | --- | --- | 0 | 1 | 0 | --- | 0 | --- | 0 |
| Total: | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 22 | 0 | 0 |
| # Days: | 0 | 0 | 0 | 0 | 14 | 14 | 9 | 0 | 14 | 11 | 14 |
| Average: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 |
| YTD | 38,199 | 29,095 | 8,013 | 7,847 | 2,459,180 | 2,843,813 | 2,221,929 | 28,982 | 3,519,412 | 2,104,938 | 3,328,091 |

COMBINED SUBYEARLING CHINOOK

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|
| 09/06/2002 | --- | --- | --- | --- | 984 | 146 | --- | --- | 1,980 | 793 | 411 |
| 09/07/2002 | --- | --- | --- | --- | 704 | 90 | --- | --- | 2,360 | 820 | 179 |
| 09/08/2002 | --- | --- | --- | --- | 600 | 94 | --- | --- | 1,860 | 326 | 765 |
| 09/09/2002 * | --- | --- | --- | --- | 468 | 74 | --- | --- | 1,600 | 227 | 896 |
| 09/10/2002 | --- | --- | --- | --- | 660 | 49 | --- | --- | 793 | 767 | 843 |
| 09/11/2002 | --- | --- | --- | --- | 492 | 53 | 38 | --- | 1,301 | 1,380 | 525 |
| 09/12/2002 * | --- | --- | --- | --- | 456 | 35 | 79 | --- | 1,400 | 655 | 901 |
| 09/13/2002 * | --- | --- | --- | --- | 352 | 46 | 84 | --- | 610 | 408 | 602 |
| 09/14/2002 | --- | --- | --- | --- | 216 | 61 | 160 | --- | 785 | 280 | 305 |
| 09/15/2002 * | --- | --- | --- | --- | 260 | 50 | 44 | --- | 1,345 | 350 | 287 |
| 09/16/2002 | --- | --- | --- | --- | 532 | 82 | 79 | --- | 1,090 | 100 | 115 |
| 09/17/2002 | --- | --- | --- | --- | 924 | 58 | 87 | --- | 275 | --- | 103 |
| 09/18/2002 | --- | --- | --- | --- | 988 | 37 | 60 | --- | 435 | --- | 137 |
| 09/19/2002 | --- | --- | --- | --- | 956 | 20 | 70 | --- | 365 | --- | 129 |
| Total: | 0 | 0 | 0 | 0 | 8,592 | 895 | 701 | 0 | 16,199 | 6,106 | 6,198 |
| # Days: | 0 | 0 | 0 | 0 | 14 | 14 | 9 | 0 | 14 | 11 | 14 |
| Average: | 0 | 0 | 0 | 0 | 614 | 64 | 78 | 0 | 1,157 | 555 | 443 |
| YTD | 0 | 4 | 26 | 3,488 | 730,859 | 332,769 | 304,908 | 25,466 | 8,341,761 | 3,465,726 | 6,993,278 |

Two-Week Summary of Passage Indices

COMBINED COHO

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| 09/06/2002 | --- | --- | --- | --- | 0 | 3 | --- | --- | 0 | 0 | 4 |
| 09/07/2002 | --- | --- | --- | --- | 0 | 3 | --- | --- | 0 | 0 | 4 |
| 09/08/2002 | --- | --- | --- | --- | 0 | 5 | --- | --- | 0 | 0 | 0 |
| 09/09/2002 * | --- | --- | --- | --- | 0 | 3 | --- | --- | 0 | 0 | 0 |
| 09/10/2002 | --- | --- | --- | --- | 0 | 1 | --- | --- | 0 | 0 | 0 |
| 09/11/2002 | --- | --- | --- | --- | 0 | 3 | 0 | --- | 0 | 0 | 0 |
| 09/12/2002 * | --- | --- | --- | --- | 0 | 5 | 1 | --- | 0 | 0 | 0 |
| 09/13/2002 * | --- | --- | --- | --- | 0 | 1 | 0 | --- | 0 | 0 | 0 |
| 09/14/2002 | --- | --- | --- | --- | 0 | 0 | 1 | --- | 0 | 0 | 0 |
| 09/15/2002 * | --- | --- | --- | --- | 0 | 2 | 0 | --- | 0 | 0 | 0 |
| 09/16/2002 | --- | --- | --- | --- | 0 | 3 | 2 | --- | 0 | 0 | 0 |
| 09/17/2002 | --- | --- | --- | --- | 0 | 2 | 0 | --- | 0 | --- | 0 |
| 09/18/2002 | --- | --- | --- | --- | 0 | 3 | 0 | --- | 0 | --- | 0 |
| 09/19/2002 | --- | --- | --- | --- | 0 | 1 | 3 | --- | 0 | --- | 0 |
| Total: | 0 | 0 | 0 | 0 | 0 | 35 | 7 | 0 | 0 | 0 | 8 |
| # Days: | 0 | 0 | 0 | 0 | 14 | 14 | 9 | 0 | 14 | 11 | 14 |
| Average: | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 |
| YTD | 0 | 0 | 0 | 101 | 124,060 | 104,551 | 66,185 | 86,227 | 201,998 | 315,280 | 2,331,573 |

COMBINED STEELHEAD

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|------------------|------------------|------------------|----------------|----------------|----------------|------------------|
| 09/06/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/07/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/08/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/09/2002 * | --- | --- | --- | --- | 0 | 0 | --- | --- | 7 | 0 | 0 |
| 09/10/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 0 | 0 | 0 |
| 09/11/2002 | --- | --- | --- | --- | 0 | 0 | 2 | --- | 0 | 0 | 0 |
| 09/12/2002 * | --- | --- | --- | --- | 0 | 1 | 1 | --- | 0 | 0 | 0 |
| 09/13/2002 * | --- | --- | --- | --- | 0 | 2 | 6 | --- | 0 | 0 | 0 |
| 09/14/2002 | --- | --- | --- | --- | 0 | 1 | 19 | --- | 0 | 0 | 0 |
| 09/15/2002 * | --- | --- | --- | --- | 0 | 1 | 19 | --- | 10 | 0 | 0 |
| 09/16/2002 | --- | --- | --- | --- | 4 | 1 | 19 | --- | 0 | 0 | 0 |
| 09/17/2002 | --- | --- | --- | --- | 0 | 1 | 26 | --- | 0 | --- | 0 |
| 09/18/2002 | --- | --- | --- | --- | 4 | 0 | 27 | --- | 0 | --- | 0 |
| 09/19/2002 | --- | --- | --- | --- | 0 | 0 | 22 | --- | 0 | --- | 0 |
| Total: | 0 | 0 | 0 | 0 | 8 | 7 | 141 | 0 | 17 | 0 | 0 |
| # Days: | 0 | 0 | 0 | 0 | 14 | 14 | 9 | 0 | 14 | 11 | 14 |
| Average: | 0 | 0 | 0 | 0 | 1 | 1 | 16 | 0 | 1 | 0 | 0 |
| YTD | 2,833 | 32,043 | 3,494 | 11,810 | 2,603,035 | 2,273,391 | 1,794,658 | 28,714 | 794,531 | 545,814 | 1,455,004 |

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

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

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

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

| Date | WTB (Coll) | IMN (Coll) | GRN (Coll) | LEW (Coll) | LGR (INDEX) | LGS (INDEX) | LMN (INDEX) | RIS (INDEX) | MCN (INDEX) | JDA (INDEX) | BO2 (INDEX) |
|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|------------------|----------------|----------------|
| 09/06/2002 | --- | --- | --- | --- | 4 | 0 | --- | --- | 60 | 13 | 0 |
| 09/07/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 100 | 0 | 0 |
| 09/08/2002 | --- | --- | --- | --- | 4 | 2 | --- | --- | 87 | 0 | 0 |
| 09/09/2002 * | --- | --- | --- | --- | 0 | 0 | --- | --- | 46 | 0 | 0 |
| 09/10/2002 | --- | --- | --- | --- | 0 | 0 | --- | --- | 34 | 0 | 0 |
| 09/11/2002 | --- | --- | --- | --- | 4 | 0 | 0 | --- | 94 | 0 | 0 |
| 09/12/2002 * | --- | --- | --- | --- | 0 | 0 | 1 | --- | 85 | 13 | 0 |
| 09/13/2002 * | --- | --- | --- | --- | 8 | 2 | 1 | --- | 85 | 0 | 0 |
| 09/14/2002 | --- | --- | --- | --- | 4 | 3 | 0 | --- | 80 | 7 | 0 |
| 09/15/2002 * | --- | --- | --- | --- | 4 | 0 | 0 | --- | 45 | 0 | 0 |
| 09/16/2002 | --- | --- | --- | --- | 4 | 1 | 0 | --- | 25 | 0 | 0 |
| 09/17/2002 | --- | --- | --- | --- | 0 | 2 | 1 | --- | 5 | --- | 5 |
| 09/18/2002 | --- | --- | --- | --- | 0 | 1 | 1 | --- | 5 | --- | 0 |
| 09/19/2002 | --- | --- | --- | --- | 0 | 1 | 0 | --- | 15 | --- | 0 |
| Total: | 0 | 0 | 0 | 0 | 32 | 12 | 4 | 0 | 766 | 33 | 5 |
| # Days: | 0 | 0 | 0 | 0 | 14 | 14 | 9 | 0 | 14 | 11 | 14 |
| Average: | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 55 | 3 | 0 |
| YTD | 18 | 0 | 0 | 261 | 77,610 | 66,621 | 38,986 | 20,629 | 1,410,248 | 934,115 | 848,197 |

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: 09/19

| DAM | Spring Chinook | | | | | | Summer Chinook | | | | | | Fall Chinook | | | | | |
|-----|----------------|-------|---------|--------|------------|-------|----------------|-------|--------|--------|------------|-------|--------------|--------|---------|--------|------------|--------|
| | 2002 | | 2001 | | 10-Yr Avg. | | 2002 | | 2001 | | 10-Yr Avg. | | 2002 | | 2001 | | 10-Yr Avg. | |
| | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack | Adult | Jack |
| BON | 268,813 | 6,477 | 391,367 | 14,172 | 104,143 | 5,654 | 127,436 | 7,952 | 76,156 | 14,723 | 26,786 | 4,828 | 424,571 | 28,733 | 354,513 | 52,302 | 177,460 | 22,638 |
| TDA | 181,176 | 3,870 | 303,912 | 9,953 | 68,558 | 3,895 | 113,069 | 5,743 | 71,462 | 10,926 | 22,478 | 3,504 | 199,184 | 19,792 | 141,544 | 30,329 | 89,019 | 13,096 |
| JDA | 139,887 | 2,403 | 264,177 | 6,208 | 58,196 | 3,052 | 105,354 | 5,615 | 64,186 | 10,049 | 20,885 | 3,005 | 120,759 | 14,505 | 90,382 | 22,641 | 62,847 | 9,340 |
| MCN | 129,357 | 3,872 | 258,689 | 6,683 | 54,462 | 2,970 | 109,937 | 6,818 | 67,914 | 9,600 | 21,443 | 2,927 | 98,636 | 13,915 | 68,237 | 16,888 | 46,105 | 6,635 |
| IHR | 85,207 | 1,826 | 171,173 | 3,026 | 33,021 | 1,839 | 26,607 | 2,437 | 15,270 | 2,397 | 5,382 | 886 | 9,442 | 2,056 | 6,534 | 3,028 | 2,497 | 693 |
| LMN | 76,304 | 1,537 | 180,787 | 1,784 | 32,792 | 1,811 | 23,743 | 1,686 | 19,287 | 1,612 | 5,597 | 792 | 10,291 | 1,948 | 6,859 | 3,092 | 2,102 | 707 |
| LGS | 77,232 | 1,815 | 174,823 | 2,990 | 31,528 | 1,921 | 20,844 | 2,253 | 15,929 | 2,803 | 5,147 | 995 | 7,408 | 1,078 | 4,721 | 1,753 | 1,307 | 379 |
| LWG | 75,025 | 2,132 | 171,958 | 3,135 | 30,329 | 1,865 | 22,159 | 1,953 | 13,735 | 3,804 | 5,072 | 1,094 | 6,681 | 1,240 | 3,527 | 2,006 | 1,014 | 386 |
| PRD | 34,083 | 196 | 50,379 | 987 | 14,107 | 363 | 96,326 | 1,455 | 53,170 | 3,207 | 18,578 | 1,091 | 17,709 | 1,212 | 14,218 | 3,029 | 12,070 | 1,248 |
| RIS | 24,017 | 827 | 39,785 | 1,761 | 10,725 | 505 | 86,825 | 4,762 | 48,844 | 13,086 | 16,340 | 3,328 | 9,297 | 670 | 5,494 | 2,929 | 3,498 | 917 |
| RRH | 9,999 | 161 | 15,895 | 543 | 3,314 | 135 | 73,104 | 2,807 | 39,174 | 5,548 | 9,858 | 1,394 | 6,458 | 665 | 4,838 | 1,824 | 2,347 | 800 |
| WEL | 7,587 | 39 | 9,989 | 892 | 1,779 | 176 | 62,967 | 414 | 33,244 | 4,882 | 6,718 | 1,165 | 2,780 | 236 | 2,772 | 1,187 | 947 | 320 |

| DAM | Coho | | | | | | Sockeye | | | Steelhead | | | |
|-----|--------|-------|---------|-------|------------|-------|---------|---------|------------|-----------|---------|---------|-----------|
| | 2002 | | 2001 | | 10-Yr Avg. | | 2002 | 2001 | 10-Yr Avg. | 10-Yr | | | Wild 2002 |
| | Adult | Jack | Adult | Jack | Adult | Jack | | | | 2002 | 2001 | Avg. | |
| BON | 34,907 | 3,430 | 193,826 | 4,353 | 33,613 | 2,114 | 49,605 | 114,934 | 50,283 | 415,123 | 578,598 | 237,863 | 130,011 |
| TDA | 3,896 | 1,921 | 21,885 | 1,134 | 5,467 | 666 | 40,554 | 102,561 | 40,061 | 262,746 | 364,384 | 139,738 | 85,447 |
| JDA | 2,262 | 575 | 11,722 | 806 | 3,244 | 435 | 41,913 | 107,864 | 43,271 | 201,355 | 260,573 | 105,719 | 64,585 |
| MCN | 477 | 255 | 4,720 | 505 | 1,189 | 126 | 39,175 | 97,181 | 39,888 | 146,128 | 214,275 | 76,070 | 48,514 |
| IHR | 3 | 0 | 123 | 9 | 30 | 1 | 60 | 38 | 33 | 84,357 | 98,054 | 42,459 | 23,190 |
| LMN | 3 | 0 | 55 | 5 | 4 | 2 | 45 | 32 | 21 | 87,780 | 99,646 | 39,346 | 25,635 |
| LGS | 11 | 1 | 21 | 0 | 2 | 0 | 38 | 71 | 24 | 67,808 | 64,159 | 25,764 | 21,255 |
| LWG | 6 | 6 | 2 | 7 | 2 | 0 | 51 | 36 | 23 | 67,347 | 53,822 | 24,527 | 20,568 |
| PRD | 360 | 109 | 264 | 154 | 52 | 17 | 47,882 | 111,320 | 48,821 | 13,084 | 22,274 | 7,590 | *** |
| RIS | 111 | 0 | 133 | 0 | 55 | 0 | 44,318 | 104,842 | 43,443 | 12,007 | 18,634 | 6,142 | 8,024 |
| RRH | 41 | 0 | 50 | 0 | 16 | 0 | 12,369 | 66,218 | 27,239 | 8,910 | 13,722 | 4,221 | 5,013 |
| WEL | 245 | 0 | 0 | 0 | 0 | 0 | 10,596 | 74,487 | 27,094 | 6,145 | 10,805 | 2,963 | 3,146 |

LGS is missing counts for 09/14.

IHR is through 09/17; RIS, RRH, PRD and WEL are through 09/18.

RIS, RRH, PRD and WEL data for the last week are from the PUDs.

**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.

Two Week Transportation Summary

| | | 09/07/02 TO 09/20/02 | | | | | |
|--------------------------------------|--------------------------------|----------------------|-----|----|-----|-----|-------------|
| Site | Data | Species | | | | | Grand Total |
| | | CH0 | CH1 | CO | SO | ST | |
| LGR | Sum of NumberCollected | 8,592 | | | 32 | 8 | 8,632 |
| | Sum of NumberBarged | 0 | | | 0 | 0 | 0 |
| | Sum of NumberBypassed | 0 | | | 0 | 0 | 0 |
| | Sum of Numbertrucked | 8,554 | | | 29 | 8 | 8,591 |
| | Sum of TotalProjectMortalities | 38 | | | 3 | 0 | 41 |
| LGS | Sum of NumberCollected | 895 | 1 | 35 | 12 | 7 | 950 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of Numbertrucked | 875 | 1 | 33 | 12 | 6 | 927 |
| | Sum of TotalProjectMortalities | 20 | 0 | 2 | 0 | 1 | 23 |
| LMN | Sum of NumberCollected | 701 | 5 | 7 | 4 | 141 | 858 |
| | Sum of NumberBarged | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberBypassed | 0 | 0 | 0 | 0 | 137 | 137 |
| | Sum of Numbertrucked | 643 | 5 | 7 | 4 | 0 | 659 |
| | Sum of TotalProjectMortalities | 58 | 0 | 0 | 0 | 4 | 62 |
| MCN | Sum of NumberCollected | 16,199 | 22 | | 766 | 17 | 17,004 |
| | Sum of NumberBarged | 0 | 0 | | 0 | 0 | 0 |
| | Sum of NumberBypassed | 0 | 0 | | 0 | 0 | 0 |
| | Sum of Numbertrucked | 15,964 | 17 | | 763 | 17 | 16,761 |
| | Sum of TotalProjectMortalities | 235 | 5 | | 3 | 0 | 243 |
| Total Sum of NumberCollected | | 26,387 | 28 | 42 | 814 | 173 | 27,444 |
| Total Sum of NumberBarged | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Sum of NumberBypassed | | 0 | 0 | 0 | 0 | 137 | 137 |
| Total Sum of Numbertrucked | | 26,036 | 23 | 40 | 808 | 31 | 26,938 |
| Total Sum of TotalProjectMortalities | | 351 | 5 | 2 | 6 | 5 | 369 |

YTD Transportation Summary

TO: 09/20/02

| | | Species | | | | | |
|--------------------------------------|--------------------------------|-----------|-----------|---------|-----------|-----------|-------------|
| Site | Data | CH0 | CH1 | CO | SO | ST | Grand Total |
| LGR | Sum of NumberCollected | 609,570 | 1,535,659 | 80,770 | 51,517 | 1,698,897 | 3,976,413 |
| | Sum of NumberBarged | 567,550 | 1,483,798 | 80,608 | 49,501 | 1,627,988 | 3,809,445 |
| | Sum of NumberBypassed | 210 | 38,152 | 5 | 7 | 65,895 | 104,269 |
| | Sum of NumberTrucked | 34,105 | 9,851 | 32 | 456 | 3,539 | 47,983 |
| | Sum of TotalProjectMortalities | 7,747 | 3,858 | 125 | 1,553 | 1,255 | 14,538 |
| LGS | Sum of NumberCollected | 289,098 | 1,907,379 | 79,961 | 48,210 | 1,562,822 | 3,887,470 |
| | Sum of NumberBarged | 282,631 | 1,904,701 | 79,281 | 47,412 | 1,559,479 | 3,873,504 |
| | Sum of NumberBypassed | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sum of NumberTrucked | 5,323 | 1,038 | 109 | 107 | 1,215 | 7,792 |
| | Sum of TotalProjectMortalities | 1,144 | 1,640 | 571 | 691 | 2,131 | 6,177 |
| LMN | Sum of NumberCollected | 304,863 | 2,214,716 | 63,080 | 38,588 | 1,753,781 | 4,375,028 |
| | Sum of NumberBarged | 266,730 | 2,122,021 | 60,932 | 37,468 | 1,713,937 | 4,201,088 |
| | Sum of NumberBypassed | 29,272 | 68,125 | 1,994 | 208 | 34,005 | 133,604 |
| | Sum of NumberTrucked | 6,251 | 20,208 | 94 | 27 | 356 | 26,936 |
| | Sum of TotalProjectMortalities | 2,610 | 4,362 | 60 | 885 | 5,483 | 13,400 |
| MCN | Sum of NumberCollected | 5,358,906 | 2,205,139 | 111,899 | 909,877 | 464,651 | 9,050,472 |
| | Sum of NumberBarged | 1,785,415 | 792 | 2,094 | 4,976 | 979 | 1,794,256 |
| | Sum of NumberBypassed | 3,281,193 | 2,203,310 | 109,765 | 902,707 | 463,340 | 6,960,315 |
| | Sum of NumberTrucked | 252,265 | 37 | 0 | 1,296 | 30 | 253,628 |
| | Sum of TotalProjectMortalities | 39,999 | 1,000 | 40 | 897 | 302 | 42,238 |
| Total Sum of NumberCollected | | 6,562,437 | 7,862,893 | 335,710 | 1,048,192 | 5,480,151 | 21,289,383 |
| Total Sum of NumberBarged | | 2,902,326 | 5,511,312 | 222,915 | 139,357 | 4,902,383 | 13,678,293 |
| Total Sum of NumberBypassed | | 3,310,675 | 2,309,587 | 111,764 | 902,922 | 563,240 | 7,198,188 |
| Total Sum of NumberTrucked | | 297,944 | 31,134 | 235 | 1,886 | 5,140 | 336,339 |
| Total Sum of TotalProjectMortalities | | 51,500 | 10,860 | 796 | 4,026 | 9,171 | 76,353 |

