

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-21

Report Period: 8/19 – 8/25, 2023

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### SECTION 1. River Flow and Sampling Results

|                   | Min   | Max   | Mean    |           |       |
|-------------------|-------|-------|---------|-----------|-------|
|                   |       |       | Current | Last Week |       |
|                   |       |       |         | 2022      |       |
| A. River Flow     | 108.1 | 116.1 | 112.1   | 120.0     | 154.3 |
| B. Powerhouse 1   | 85.3  | 93.6  | 89.5    | 86.6      | 132.0 |
| C. Spill (kcfs)   | 21.1  | 21.1  | 21.1    | 31.6      | 21.2  |
| % of River Flow   | 18.2  | 19.5  | 18.8    | 26.3      | 13.8  |
| D. Water Temp *   | 71.6  | 72.8  | 72.2    | 72.6      | 71.6  |
| E. % Saturation * | 108.6 | 112.0 | 110.3   | 107.4     | 106.6 |

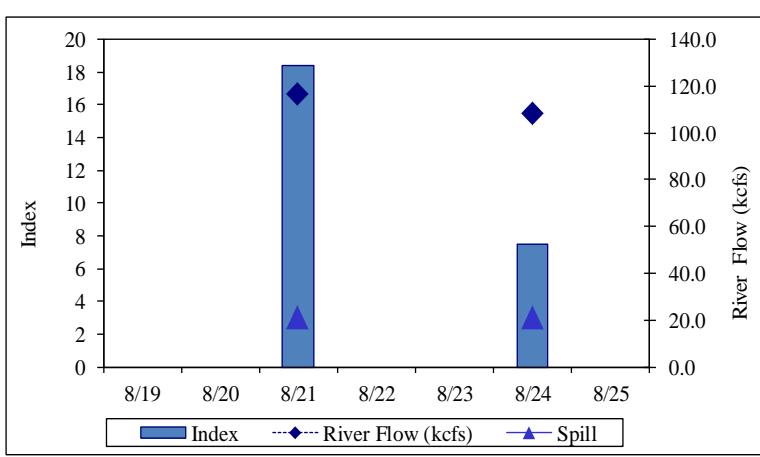
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

| % SAMPLE COMPOSITION | This Week | Last Week |
|----------------------|-----------|-----------|
| YEARLING CHINOOK     | 0.0%      | 0.6%      |
| SUBYEARLING CHINOOK  | 100.0%    | 98.7%     |
| CHINOOK FRY          | 0.0%      | 0.0%      |
| UNCLIPPED STEELHEAD  | 0.0%      | 0.0%      |
| CLIPPED STEELHEAD    | 0.0%      | 0.0%      |
| COHO                 | 0.0%      | 0.0%      |
| COHO FRY             | 0.0%      | 0.0%      |
| SOCKEYE              | 0.0%      | 0.6%      |

| YEARLING CHINOOK |             |         |        |        |        | SUBYEARLING CHINOOK |         |        |        |        |         | COHO    |        |        |        |        |   |
|------------------|-------------|---------|--------|--------|--------|---------------------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---|
| End Date         | Sample Rate | # Smpld | % Desc | % Mort | # Coll | Index               | # Smpld | % Desc | % Mort | # Coll | Index   | # Smpld | % Desc | % Mort | # Coll | Index  |   |
| 8/19             |             |         |        |        |        |                     |         |        |        |        |         |         |        |        |        |        |   |
| 8/20             |             |         |        |        |        |                     |         |        |        |        |         |         |        |        |        |        |   |
| 8/21             | 100.0%      | 0       | 0.0    | 0.0    | 0      | 0                   | 15      | 0.0    | 0.0    | 15     | 18      | 0       | 0.0    | 0.0    | 0      | 0      | 0 |
| 8/22             |             |         |        |        |        |                     |         |        |        |        |         |         |        |        |        |        |   |
| 8/23             |             |         |        |        |        |                     |         |        |        |        |         |         |        |        |        |        |   |
| 8/24             | 100.0%      | 0       | 0.0    | 0.0    | 0      | 0                   | 6       | 0.0    | 0.0    | 6      | 7       | 0       | 0.0    | 0.0    | 0      | 0      | 0 |
| 8/25             |             |         |        |        |        |                     |         |        |        |        |         |         |        |        |        |        |   |
| Weekly           |             | 0       | 0.0    | 0.0    | 0      | 0                   | 21      | 0.0    | 0.0    | 21     | 26      | 0       | 0.0    | 0.0    | 0      | 0      | 0 |
| Season to date   |             | 3,888   | 2.2    | 0.2    | 84,181 | 214,016             | 3,678   | 1.3    | 0.2    | 54,525 | 144,101 | 284     | 4.9    | 0.0    | 8,145  | 22,040 |   |

| UNCLIPPED      |             |         |        |        |        | STEELHEAD |         |        |        |        |        | CLIPPED |        |        |        |        |         | SOCKEYE |        |        |       |   |  |
|----------------|-------------|---------|--------|--------|--------|-----------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|---------|--------|--------|-------|---|--|
| End Date       | Sample Rate | # Smpld | % Desc | % Mort | # Coll | Index     | # Smpld | % Desc | % Mort | # Coll | Index  | # Smpld | % Desc | % Mort | # Coll | Index  | # Smpld | % Desc  | % Mort | # Coll | Index |   |  |
| 8/19           |             |         |        |        |        |           |         |        |        |        |        |         |        |        |        |        |         |         |        |        |       |   |  |
| 8/20           |             |         |        |        |        |           |         |        |        |        |        |         |        |        |        |        |         |         |        |        |       |   |  |
| 8/21           | 100.0%      | 0       | 0.0    | 0.0    | 0      | 0         | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0     | 0.0    | 0      | 0     | 0 |  |
| 8/22           |             |         |        |        |        |           |         |        |        |        |        |         |        |        |        |        |         |         |        |        |       |   |  |
| 8/23           |             |         |        |        |        |           |         |        |        |        |        |         |        |        |        |        |         |         |        |        |       |   |  |
| 8/24           | 100.0%      | 0       | 0.0    | 0.0    | 0      | 0         | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0     | 0.0    | 0      | 0     | 0 |  |
| 8/25           |             |         |        |        |        |           |         |        |        |        |        |         |        |        |        |        |         |         |        |        |       |   |  |
| Weekly         |             | 0       | 0.0    | 0.0    | 0      | 0         | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0    | 0.0    | 0      | 0      | 0       | 0.0     | 0.0    | 0      | 0     | 0 |  |
| Season to date |             | 344     | 3.5    | 0.0    | 10,294 | 25,917    | 958     | 4.0    | 0.0    | 38,693 | 97,930 | 140     | 5.7    | 0.0    | 4,698  | 11,560 |         |         |        |        |       |   |  |

| TOTAL          |             |         |        |        |         |         |
|----------------|-------------|---------|--------|--------|---------|---------|
| End Date       | Sample Rate | # Smpld | % Desc | % Mort | # Coll  | Index   |
| 8/19           |             |         |        |        |         |         |
| 8/20           |             |         |        |        |         |         |
| 8/21           | 100.0%      | 15      | 0.0    | 0.0    | 15      | 18      |
| 8/22           |             |         |        |        |         |         |
| 8/23           |             |         |        |        |         |         |
| 8/24           | 100.0%      | 6       | 0.0    | 0.0    | 6       | 7       |
| 8/25           |             |         |        |        |         |         |
| Weekly         |             | 21      | 0.0    | 0.0    | 21      | 26      |
| Season to date |             | 9,292   | 2.2    | 0.2    | 200,536 | 515,564 |



Notes: Condition percentages are calculated from sample numbers.  
Subyearling chinook and coho include fry.

| Pacific Lamprey |         |        | Western Brook Lamprey |         |        |            |         |        |        |
|-----------------|---------|--------|-----------------------|---------|--------|------------|---------|--------|--------|
| Macrophthalmia  |         |        | Ammocoetes            |         |        | Ammocoetes |         |        |        |
| End Date        | # Smpld | % Mort | # Coll                | # Smpld | % Mort | # Coll     | # Smpld | % Mort | # Coll |
| 8/19            |         |        |                       |         |        |            |         |        |        |
| 8/20            |         |        |                       |         |        |            |         |        |        |
| 8/21            | 0       | 0.0    | 0                     | 0       | 0.0    | 0          | 0       | 0      | 0      |
| 8/22            |         |        |                       |         |        |            |         |        |        |
| 8/23            |         |        |                       |         |        |            |         |        |        |
| 8/24            | 0       | 0.0    | 0                     | 0       | 0.0    | 0          | 0       | 0      | 0      |
| 8/25            |         |        |                       |         |        |            |         |        |        |
| Weekly          | 0       | 0.0    | 0                     | 0       | 0.0    | 0          | 0       | 0      | 0      |
| Season to date  | 254     | 0.0    | 3,248                 | 109     | 0.0    | 578        | 0       | 0      | 0      |

## SECTION 2. Smolt and Lamprey Condition Monitoring Summary

end dates 8/25 8/18

### SECTION 3. Incidental Summary

|                | Bass<br>Largemouth | Bass<br>Smallmouth | Bluegill and<br>Pumpkinseed | Bullhead               | Carp                  | Catfish,<br>Channel    | Chiselmouth      | Crappie<br>species  |
|----------------|--------------------|--------------------|-----------------------------|------------------------|-----------------------|------------------------|------------------|---------------------|
| This Week      | 0                  | 4                  | 0                           | 0                      | 0                     | 0                      | 0                | 0                   |
| Season to Date | 0                  | 37                 | 6                           | 0                      | 4                     | 1                      | 0                | 7                   |
|                | Dace -<br>Longnose | Dace -<br>Speckled | Chinook Jack                | Kokanee                | Lamprey<br>Adult      | Northern<br>Pikeminnow | Peamouth         | Perch Yellow        |
| This Week      | 0                  | 0                  | 0                           | 0                      | 1                     | 0                      | 0                | 1                   |
| Season to Date | 0                  | 0                  | 0                           | 0                      | 3                     | 1                      | 0                | 82                  |
|                | Redside<br>Shiner  | Sand Roller        | Sculpin<br>species          | Stickleback 3<br>spine | Sucker<br>species     | Shad<br>Adult          | Shad<br>Juvenile | Sturgeon<br>White   |
| This Week      | 0                  | 0                  | 4                           | 0                      | 0                     | 0                      | 103,105          | 0                   |
| Season to Date | 0                  | 0                  | 41                          | 4                      | 2                     | 5                      | 226,588          | 0                   |
|                | Trout Bull         | Trout<br>Cutthroat | Trout<br>Rainbow            | Walleye                | Whitefish<br>Mountain | Siberian Prawn         | Chum Salmon      | Banded<br>Killifish |
| This Week      | 0                  | 0                  | 0                           | 18                     | 0                     | 0                      | 0                | 0                   |
| Season to Date | 0                  | 0                  | 0                           | 152                    | 4                     | 185                    | 0                | 4                   |

### SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was scheduled to sample Monday, Wednesday, and Friday until the Columbia River water temperature averages 70 degrees F., which occurred on July 6. We are now sampling Mondays and Thursdays until the Columbia River water temperature averages 69.5 degrees F, at which point we will go back to Monday, Wednesday, and Friday sampling. Samples are taken from the Juvenile Bypass System between 0700 and 1300 hrs. and the Condition Exams will target approximately 100 of the predominant species of out-migrant, which is currently Subyearling Fall Chinook which were 100% of the sample this week. Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars continued to be very low for the week and consisted of a few sticks, soft debris such as aquatic macrophytes and bryozoans, and adult American shad.

### SECTION 5. Research

No juvenile Pacific Lamprey ammocoetes or macropthalmia were sampled during this report period.

## SECTION 6. Pictures



This is a juvenile Sucker (*Catostomidae* spp.), possibly a Bridge-lip sucker (*Catostomus columbianus*) approximately 105 mm fork length, sampled at the John Day Dam Smolt Facility on May 8, 2017.



Juvenile Peamouth (*Mylocheilus caurinus*), approximately 111 mm fork length, sample at the John Day Dam Smolt Facility on August 23, 2005.



Juvenile Longnose dace (*Rhinichthys cataractae*), approximately 38 mm fork length, sampled at the John Day Dam Smolt Facility on July 13, 2016.