

## FISHWAY STATUS REPORT

**Date:** 10/5/2019  
**Inspection Period:** 9/29/2019 thru 10/5/2019

## JOHN DAY DAM



JD/WC Project-Fisheries  
P.O. Box 823  
Rufus, Oregon 97050  
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All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.  
Additional and frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

| John Day Dam                        | Inspection<br>OOC | Criteria<br>Limit | Total Number of Inspections: 14  | Temperature: 65 F   |
|-------------------------------------|-------------------|-------------------|--|---|
|                                     |                   |                   |  | Secchi: 6.0 Ft.   |
| <b>NORTH FISHWAY</b>                |                   |                   | In service with 4 out of 6 AWS pumps available   |   |
| Exit differential                   | 0                 | ≤ 0.5'            |  |   |
| Exit Control weirs                  | 0                 | High setting      | High setting is normal for JDN   |   |
| Count station differential          | 0                 | ≤ 0.3'            |  |   |
| Weir crest depth (DS gauge)         | 0                 | 1.0' ± 0.1'       | Returned to salmon setting of 1.0' on 7/29.  |   |
| Entrance differential               | 0                 | 1.0' - 2.0'       | AVG 1.5  |   |
| <b>SOUTH FISHWAY</b>                |                   |                   | 2 out of 3 AWS turbines in service   |   |
| Exit differential                   | 0                 | ≤ 0.5'            |  |   |
| Exit Control weirs                  | 0                 | Mid setting       | Mid setting is normal for JDS  |   |
| Count station differential          | 0                 | ≤ 0.3'            |  |   |
| Weir crest depth (US gauge)         | 0                 | 1.0' ± 0.1'       | Returned to salmon setting of 1.0' on 7/29.  |   |
| South entrance differential         | 0                 | 1.0' - 2.0'       | AVG 1.3  |   |
| Entrance weir SE1                   | 0                 | depth (≥ 8')      | AVG 8.2  |   |
| Collection channel velocity         | 0                 | 1.5 - 4 fps       | AVG 2.62   |   |
| N. Entrance PH(Bay 19)differential  | 0                 | 1.0' - 2.0'       | AVG 1.4  |   |
| Entrance weir NE1                   | 0                 | depth (≥ 8')      | AVG 9.1  |   |
| Entrance weir NE2                   | 0                 | depth (≥ 8')      | AVG 9.6  |   |
| <b>JUVENILE PASSAGE</b>             |                   |                   |  |   |
| Forebay/bypass conduit differential | 0                 | 4.0' - 5.0'       | AVG 4.6  |   |
| Submersible traveling screens       | 0                 | visual inspect    | Monthly STS inspection incomplete due to Line3 outage. Only north half of STS inspected.   |   |
| Turbine trashrack drawdown          | 0                 | <1.5', wkly       | N/A  | Trashrack raking completed by 9/26. Very little debris was found. |
| Vert barrier screen drawdown        | 0                 | <1.5', wkly       | N/A  |   |
| Spill volume                        | 0                 | per FPP           | 1.6 K at bay 2   |   |
| Spill pattern                       | 0                 | per FPP           | Bay 2 open at 1.6K during daylight hours for adult attraction to North Entrance since 9/1. |   |
| Turbine Unit Priority               | 0                 | per FPP           |  |   |
| Turbine 1% Efficiency               | 0                 | per FPP           |  |   |

## SMOLT MONITORING FACILITY

### Operation:

SMF in bypass for the pit detection only since 9/15; it will continue through the end of November.

### Maintenance:

Sample and pit holding tanks being painted

No maintenance issues of any kind at this time. Planning for the upcoming winter's SCADA update underway.

### Research: None

## ADULT FISHWAYS & TW AVIAN GRID

### Birds:

See Bird Count tab for details.

All 125 avian lines in place without any deficiencies.

### Operations:

September STS inspection incomplete on 9/19 due to line 3 outage work blocking access to the south half of PH. There were no bad STS found @ north half of PH.

Line 1 outage to replace the high voltage bushing started on 1 October per MOC (from 2018.) ETR is 10/23.

MU Gatewell Drawdown All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

### Maintenance:

JD South Fishway continues operating with two AWS turbines ( No. 1 & 2) since early April. AWS turbine No. 3 waiting for the replacement of its thrust bearing which is on order/ in contracting ( at approx. \$ 20 K.)

JD North Fishway continues operating in criteria. However, 2 out of 6 its ASW pumps are OOS due to auto greaser and oil leaks issues since mid June.

JD Maintenance is planning for unstocking/ inspection of pump # 3 to determine the undelaying causes in September 2019 (expensive work at \$ 45K)

North AWS pump 4 will be next to undergo similar repairs soon after #3 is done.

Delayed MU5 RTS on 9/25.

Calibration: All gauges/ sensors are within the criteria of 0.3' .

### Research:

Four Peaks Env. adult salmonids counting at both JD fishways continues since 1 April 2019. The night video counting is ongoing as well.

Washington F & W NPM dam angling ended with the season total of 1,835 fish in mid-September.

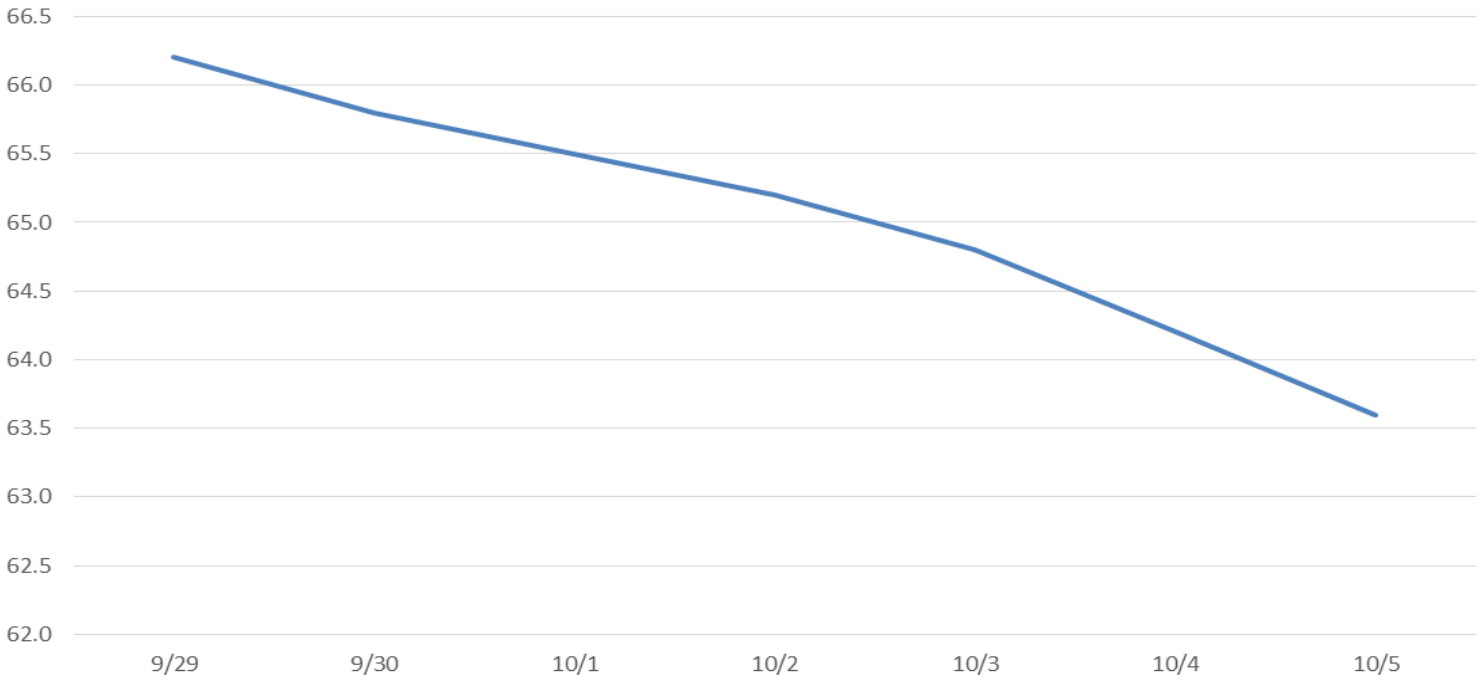
to low catches.

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

Approved by: Ron Twiner, Acting OPM

JDA Tailwater Water Temperature (9/29/19 - 10/5/19)



## JDA Collection Channel Velocity

**Date**    *2-Oct-19*

**By:**        *MDL*

| Bay(s)  | Time  | Sec. | Velocity (f/s) |
|---------|-------|------|----------------|
| 0-2     | 1:10  | 70   | 2.57           |
| 2 - 4   | 2:13  | 133  | 2.86           |
| 4 - 6   | 3:25  | 205  | 2.50           |
| 6 - 8   | 4:38  | 278  | 2.47           |
| 8 - 10  | 5:51  | 351  | 2.47           |
| 10 - 12 | 7:03  | 423  | 2.50           |
| 12 - 14 | 8:18  | 498  | 2.40           |
| 14 - 16 | 9:24  | 564  | 2.73           |
| 16 - 18 | 10:23 | 623  | 3.05           |
|         |       |      | <b>2.62</b>    |

|                         |        |                |
|-------------------------|--------|----------------|
| <b>Bay 19 TW:</b>       | 159.9  |                |
| <b>Turbine 1&amp;2:</b> | 68 RPM | Turbine #3 OOS |

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

## John Day Weekly Averages

|             | Temp:       | Secchi:         | Fallbacks                 |
|-------------|-------------|-----------------|---------------------------|
| Sun         | 66          | 6.0             | NA                        |
| Mon         | 66          | 6.0             | NA                        |
| Tue         | 66          | 6.0             | NA                        |
| Wed         | 65          | 6.0             | NA                        |
| Thur        | 65          | 6.0             | NA                        |
| Fri         | 62          | 6.0             | NA                        |
| Sat         | 64          | 6.0             | NA                        |
| <b>AVG:</b> | <b>64.9</b> | <b>AVG: 6.0</b> | <b>AVG/Sample #DIV/0!</b> |
|             |             |                 | <b>MAX 0</b>              |
|             |             |                 | <b>MIN 0</b>              |

|             | NE1        | NE2        | S.Ent      | SE1        | N.Ent      | JBS Diff   | Bay19      |
|-------------|------------|------------|------------|------------|------------|------------|------------|
| Sun         | 9.3        | 9.9        | 1.4        | 8.6        | 1.4        | 4.6        | 1.3        |
| Sun         | 9.2        | 9.8        | 1.4        | 8.6        | 1.5        | 4.6        | 1.5        |
| Mon         | 8.9        | 9.4        | 1.4        | 8.4        | 1.6        | 4.6        | 1.3        |
| Mon         | 9.4        | 10.0       | 1.4        | 9.0        | 1.5        | 4.6        | 1.4        |
| Tues        | 9.1        | 9.7        | 1.4        | 8.1        | 1.6        | 4.5        | 1.3        |
| Tues        | 8.4        | 8.9        | 1.4        | 8.0        | 1.7        | 4.6        | 1.7        |
| Wed         | 9.4        | 9.4        | 1.5        | 8.0        | 1.4        | 4.5        | 1.6        |
| Wed         | 8.6        | 9.1        | 1.5        | 8.1        | 1.7        | 4.6        | 1.8        |
| Thur        | 8.9        | 9.5        | 1.0        | 8.0        | 1.5        | 4.6        | 1.5        |
| Thur        | 9.3        | 9.9        | 1.2        | 8.0        | 1.6        | 4.6        | 1.3        |
| Fri         | 9.2        | 9.8        | 1.2        | 8.2        | 1.4        | 4.6        | 1.7        |
| Fri         | 8.9        | 9.5        | 1.5        | 8.2        | 1.4        | 4.6        | 1.0        |
| Sat         | 9.2        | 9.8        | 1.2        | 8.0        | 1.5        | 4.6        | 1.5        |
| Sat         | 9.4        | 9.6        | 1.1        | 8.0        | 1.6        | 4.6        | 1.2        |
| <b>AVG:</b> | <b>9.1</b> | <b>9.6</b> | <b>1.3</b> | <b>8.2</b> | <b>1.5</b> | <b>4.6</b> | <b>1.4</b> |



**JDA Bird Counts: 9/29/19 to 10/5/19**

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

| Date       | Zone | Gulls |      |       |       | Cormorant |      |       |       | Caspian tern |      |       |       | White Pelican |      |       |       | Grebe |      |       |       | Total |
|------------|------|-------|------|-------|-------|-----------|------|-------|-------|--------------|------|-------|-------|---------------|------|-------|-------|-------|------|-------|-------|-------|
|            |      | F(1)  | F(2) | NF(1) | NF(2) | F(1)      | F(2) | NF(1) | NF(2) | F(1)         | F(2) | NF(1) | NF(2) | F(1)          | F(2) | NF(1) | NF(2) | F(1)  | F(2) | NF(1) | NF(2) |       |
| 29-Sep     | PHFB | 0     | 0    | 0     | 175   | 2         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 33    | 35   | 32    | 34    | 311   |
| 29-Sep     | SWFB | 0     | 0    | 393   | 311   | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 704   |
| 29-Sep     | PH1  | 19    | 53   | 0     | 0     | 1         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 73    |
| 29-Sep     | PH2  | 9     | 9    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 18    |
| 29-Sep     | PH3  | 20    | 21   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 10            | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 51    |
| 29-Sep     | SW1  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| 29-Sep     | SW2  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| 29-Sep     | SW3  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| Avg/Survey |      | 66    |      | 440   |       | 2         |      | 0     |       | 0            |      | 0     |       | 5             |      | 0     |       | 34    |      | 33    |       | 1157  |
| 30-Sep     | PHFB | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 38    | 2    | 38    | 2     | 80    |
| 30-Sep     | SWFB | 0     | 0    | 335   | 335   | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 670   |
| 30-Sep     | PH1  | 0     | 0    | 0     | 0     | 2         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 2     |
| 30-Sep     | PH2  | 0     | 15   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 15    |
| 30-Sep     | PH3  | 2     | 11   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 13    |
| 30-Sep     | SW1  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| 30-Sep     | SW2  | 0     | 15   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 15    |
| 30-Sep     | SW3  | 35    | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 1             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 36    |
| Avg/Survey |      | 39    |      | 335   |       | 1         |      | 0     |       | 0            |      | 0     |       | 1             |      | 0     |       | 20    |      | 20    |       | 831   |
| 1-Oct      | PHFB | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 72    | 62   | 0     | 0     | 134   |
| 1-Oct      | SWFB | 0     | 0    | 257   | 173   | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 430   |
| 1-Oct      | PH1  | 16    | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 16    |
| 1-Oct      | PH2  | 21    | 0    | 0     | 6     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 27    |
| 1-Oct      | PH3  | 35    | 21   | 0     | 82    | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 138   |
| 1-Oct      | SW1  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| 1-Oct      | SW2  | 0     | 0    | 0     | 4     | 0         | 0    | 0     | 8     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 4     | 0     | 0    | 0     | 0     | 16    |
| 1-Oct      | SW3  | 17    | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 17    |
| Avg/Survey |      | 55    |      | 261   |       | 0         |      | 4     |       | 0            |      | 0     |       | 0             |      | 2     |       | 67    |      | 0     |       | 778   |
| 2-Oct      | PHFB | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 11    | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 22    | 0    | 0     | 0     | 33    |
| 2-Oct      | SWFB | 0     | 0    | 272   | 170   | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 442   |
| 2-Oct      | PH1  | 2     | 0    | 0     | 2     | 0         | 1    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 5     |
| 2-Oct      | PH2  | 8     | 25   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 33    |
| 2-Oct      | PH3  | 12    | 37   | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 1             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 50    |
| 2-Oct      | SW1  | 0     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 0     |
| 2-Oct      | SW2  | 0     | 0    | 0     | 0     | 0         | 0    | 22    | 0     | 0            | 0    | 0     | 0     | 1             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 23    |
| 2-Oct      | SW3  | 2     | 0    | 0     | 0     | 0         | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0             | 0    | 0     | 0     | 0     | 0    | 0     | 0     | 2     |
| Avg/Survey |      | 43    |      | 222   |       | 1         |      | 17    |       | 0            |      | 0     |       | 1             |      | 0     |       | 11    |      | 0     |       | 588   |

**JDA Bird Counts: 9/29/19 to 10/5/19**

NF(1): Non-Forage AM Survey    NF(2): Non-Forage PM Survey

| Date                | Zone | Gulls        |      |       |       | Cormorant        |      |       |       | Caspian tern        |      |       |       | White Pelican        |      |       |       | Grebe        |      |       |       | Total        |
|---------------------|------|--------------|------|-------|-------|------------------|------|-------|-------|---------------------|------|-------|-------|----------------------|------|-------|-------|--------------|------|-------|-------|--------------|
|                     |      | F(1)         | F(2) | NF(1) | NF(2) | F(1)             | F(2) | NF(1) | NF(2) | F(1)                | F(2) | NF(1) | NF(2) | F(1)                 | F(2) | NF(1) | NF(2) | F(1)         | F(2) | NF(1) | NF(2) |              |
| 3-Oct               | PHFB | 0            | 0    | 0     | 50    | 0                | 2    | 5     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 50           | 34   | 0     | 0     | 141          |
| 3-Oct               | SWFB | 0            | 0    | 300   | 301   | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 601          |
| 3-Oct               | PH1  | 20           | 0    | 10    | 1     | 1                | 0    | 0     | 1     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 33           |
| 3-Oct               | PH2  | 15           | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 15           |
| 3-Oct               | PH3  | 12           | 0    | 0     | 0     | 0                | 0    | 0     | 10    | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 22           |
| 3-Oct               | SW1  | 0            | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0            |
| 3-Oct               | SW2  | 0            | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0            |
| 3-Oct               | SW3  | 0            | 0    | 0     | 0     | 0                | 0    | 0     | 25    | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 25           |
| Avg/Survey          |      | 24           |      | 331   |       | 2                |      | 21    |       | 0                   |      | 0     |       | 0                    |      | 0     |       | 42           |      | 0     |       | 837          |
| 4-Oct               | PHFB | 0            | 0    | 0     | 102   | 0                | 0    | 21    | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 45           | 41   | 0     | 0     | 209          |
| 4-Oct               | SWFB | 0            | 0    | 350   | 200   | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 1    | 0     | 0     | 551          |
| 4-Oct               | PH1  | 23           | 0    | 1     | 1     | 0                | 3    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 28           |
| 4-Oct               | PH2  | 10           | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 10           |
| 4-Oct               | PH3  | 15           | 0    | 0     | 0     | 0                | 0    | 0     | 22    | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 37           |
| 4-Oct               | SW1  | 0            | 0    | 0     | 0     | 2                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 2            |
| 4-Oct               | SW2  | 0            | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0            |
| 4-Oct               | SW3  | 0            | 0    | 1     | 0     | 0                | 0    | 1     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 3     | 0     | 0            | 0    | 0     | 0     | 5            |
| Avg/Survey          |      | 24           |      | 328   |       | 3                |      | 22    |       | 0                   |      | 0     |       | 0                    |      | 2     |       | 44           |      | 0     |       | 842          |
| 5-Oct               | PHFB | 0            | 0    | 0     | 0     | 0                | 0    | 20    | 4     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 67           | 42   | 0     | 0     | 133          |
| 5-Oct               | SWFB | 0            | 0    | 376   | 421   | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 797          |
| 5-Oct               | PH1  | 20           | 12   | 1     | 0     | 1                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 34           |
| 5-Oct               | PH2  | 15           | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 15           |
| 5-Oct               | PH3  | 5            | 0    | 0     | 0     | 0                | 0    | 0     | 28    | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 33           |
| 5-Oct               | SW1  | 0            | 0    | 0     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 0            |
| 5-Oct               | SW2  | 3            | 0    | 2     | 0     | 0                | 0    | 0     | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 5            |
| 5-Oct               | SW3  | 0            | 0    | 3     | 0     | 0                | 0    | 22    | 0     | 0                   | 0    | 0     | 0     | 0                    | 0    | 0     | 0     | 0            | 0    | 0     | 0     | 25           |
| Avg/Survey          |      | 28           |      | 402   |       | 1                |      | 37    |       | 0                   |      | 0     |       | 0                    |      | 0     |       | 55           |      | 0     |       | 1042         |
| <b>Totals</b>       |      | <b>Gulls</b> |      |       |       | <b>Cormorant</b> |      |       |       | <b>Caspian tern</b> |      |       |       | <b>White Pelican</b> |      |       |       | <b>Grebe</b> |      |       |       | <b>Total</b> |
|                     |      | F            |      | NF    |       | F                |      | NF    |       | F                   |      | NF    |       | F                    |      | NF    |       | F            |      | NF    |       |              |
| <b>Weekly Total</b> |      | 555          |      | 4635  |       | 15               |      | 200   |       | 0                   |      | 0     |       | 13                   |      | 7     |       | 544          |      | 106   |       | 6075         |
| <b>Avg/Survey</b>   |      | 40           |      | 331   |       | 1                |      | 14    |       | 0                   |      | 0     |       | 1                    |      | 1     |       | 39           |      | 8     |       | 434          |



John Day Dam  
Avian Zones

