FISHWAY STATUS REPORT

Date: 4/15/2017

Inspection Period: 4/9/2017 thru 4/15/2017

JOHN DAY DAM



JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050

Phone: 541-506-7860

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30. Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

| John Day Dam | Inspections | Criteria | Total Number of Inspections: | 14 | Temperature: | 46 F |
|-------------------------------------|-----------------|----------------|---|---------------|-------------------|----------------|
| | Out of Criteria | Limit | | | Secchi: | 2.7 Ft. |
| NORTH FISHWAY | | | In service with all 6 AWS pumps avail | able since 1 | 1/19/17. | |
| 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' | | | | |
| Entrance differential | 0 | 1.0' - 2.0' | AVG 1.5 | | | |
| SOUTH FISHWAY | | | In service since 3/3/17 with 2 out of | 3 AWS turb | ines available. | |
| 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' | | | | |
| South entrance differential | 0 | 1.0' - 2.0' | AVG 1.3 | | | |
| Entrance weir SE1 | 0 | depth (≥ 8′) | AVG 8.3 | | | |
| Collection channel velocity | 0 | 1.5 - 4 fps | AVG | | | |
| N. Entrance PH(Bay 19)differential | 0 | 1.0' - 2.0' | AVG 1.8 | | | |
| Entrance weir NE1 | 0 | depth (≥ 8′) | AVG 10.7 | | | |
| Entrance weir NE2 | 0 | depth (≥ 8') | AVG 10.7 | | | |
| JUVENILE PASSAGE | | | All STSs installed by 3/30. JBS in regu | lar service | that day as well. | |
| Forebay/bypass conduit differential | 0 | 4.0' - 5.0' | AVG 4.6 | | | |
| Submersible traveling screens | 0 | visual inspect | STS camera inspection scheduled for | 17-20 April | | |
| Turbine trashrack drawdown | 0 | <1.5', wkly | Trashrack Crane OOS since 3/27. ETF | R is mid Ma | y. | |
| Vert barrier screen drawdown | 0 | <1.5', wkly | | | | |
| Spill volume | 0 | FOP | Fish spill continues since 4/10. Bay 5 | & 3 OOS d | ue to bad brakes. | |
| Spill pattern | 0 | TSW per FPP | | | | |
| Turbine Unit Priority | 0 | per FPP | MU 1 & 2 downrated due to 1.6' diffe | erential sind | ce 4/02. | |
| Turbine 1% Efficiency | 0 | per FPP | | | | |

SMOLT MONITORING FACILITY

Operation:

SMF in service since 3/28 with every other day, 24 hrs condition sampling.

Maintenance:

STS annual maintenance is ongoing.

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: Approval of access' letters are being sent out for this year's research/access requests

Birds:

see the Avian Numbers tab.

6 Tower-to-Tower, 1 spillway and 2 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

Trashrack Crane OOS due to burnt up hoist motor on 3/27. JD unable to rake debris from the intake trashracks until the crane is fixed. ETR in mid May. MU 1 & 2 downrated to lower MWs due to trashrack's differential at 1.6' on 4/02.

Audit steelhead mortality found on the PH tailrace deck next to Spillbay 20 on 4/07. See 17JDA03 MFR for details.

JD TSWs in bays 18 & 19 were activated on 3/15 (annual FOP spill normally starts on 4/10) due to high river flows this year. This early TSWs operation has been partially effective in the JD Forebay debris removal due to its surface water's skimming capabilities.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway in service with all 6 AWS pumps available and meeting all FPP criteria since 1/19/17.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

The burnt up Trashrack Crane's motor was shipped for repairs on 4/07. ETR in mid May.

JD South AWS Turbine 1 bearing's repairs successfully completed by JD Mechanical in March. But its condition continues to be poor and it will be available only as backup if the other turbines fail. Inspection of AWS Turbine 2 was successfully completed 2 March and it returned to regular service the next day. JD South AWS Turbines 1 and 2 are still in need of a major overhaul and there is no guarantee by the project on their reliability.

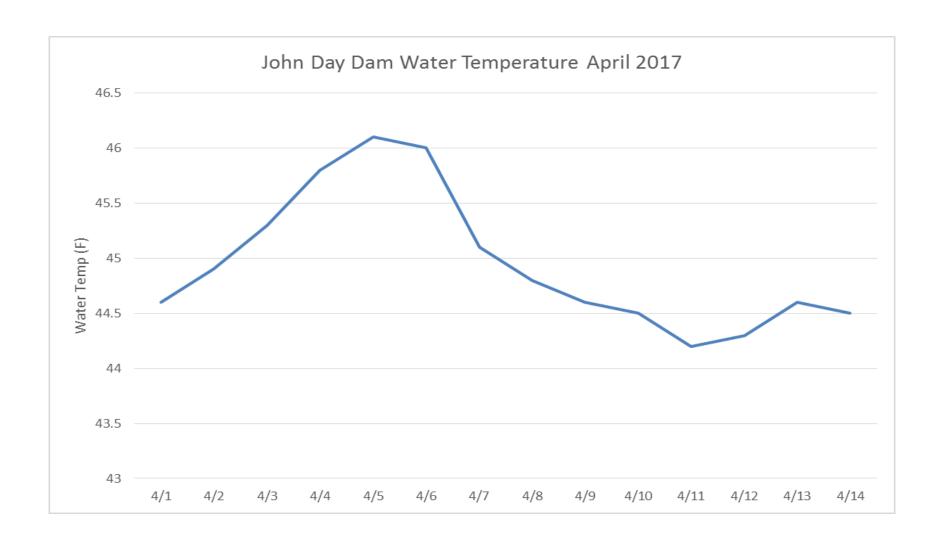
JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational

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

Research:

Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources.

condition until it's replaced with a brand new machine. However, the necessary \$ 5 million for its replacement is not yet available.



JDA Collection Channel Velocity

| Date | 13-Apr-17 |
|------|-----------|
| By: | Jim |

| Bay(s) | Time | Sec. | Velocity (f/s) |
|---------|------|------|----------------|
| 0-2 | 0:59 | 62 | 2.90 |
| 2 - 4 | 1:56 | 123 | 2.95 |
| 4 - 6 | 2:55 | 184 | 2.95 |
| 6 - 8 | 3:59 | 243 | 3.05 |
| 8 - 10 | 5:02 | 304 | 2.95 |
| 10 - 12 | 6:02 | 366 | 2.90 |
| 12 - 14 | 7:03 | 424 | 3.10 |
| 14 - 16 | 8:08 | 487 | 2.86 |
| 16 - 18 | 9:02 | 546 | 3.05 |
| | | | 2.97 |

TW 165.9

| #1 RPM | 0 |
|--------|----|
| #2 RPM | 68 |
| #3 RPM | 68 |



John Day Weekly Averages

| | Temp: |
|------|-------|
| Sun | 47 |
| Mon | 47 |
| Tue | 47 |
| Wed | 47 |
| Thur | 45 |
| Fri | 45 |
| Sat | 45 |
| | - |

AVG:

| np: | | Secchi: |
|-----|------|---------|
| 7 | | 2.5 |
| 7 | | 2.5 |
| 7 | | 2.5 |
| 7 | | 2.5 |
| 5 | | 3.0 |
| 5 | | 3.0 |
| 5 | | 3.0 |
| | · | • |
| _ | 41/0 | |

| Fallbacks | |
|-----------|---|
| 50 | |
| 36 | |
| 53 | |
| 12 | |
| 50 | |
| 44 | |
| 47 | |
| | ı |
| | |

| | 46 | AVG: | 2.7 | AVG | 42 |
|---|----|------|-----|-----|----|
| • | | _ | | MAX | 53 |
| | | | | MIN | 12 |

| | NE1 | NE2 | S.Ent | SE1 | N.Ent | JBS Diff | Bay19 |
|------|------|------|-------|-----|-------|----------|-------|
| Sun | 11.7 | 11.5 | 1.2 | 8.1 | 1.5 | 4.6 | 1.7 |
| Sun | 11.7 | 11.6 | 1.3 | 8.2 | 1.5 | 4.6 | 1.8 |
| Mon | 10.0 | 10.0 | 1.4 | 8.2 | 1.6 | 4.6 | 1.9 |
| Mon | 10.3 | 10.3 | 1.3 | 8.3 | 1.5 | 4.6 | 1.8 |
| Tues | 10.2 | 10.2 | 1.4 | 8.3 | 1.5 | 4.5 | 1.9 |
| Tues | 10.9 | 10.9 | 1.2 | 8.6 | 1.4 | 4.6 | 1.8 |
| Wed | 10.6 | 10.6 | 1.4 | 8.2 | 1.5 | 4.6 | 1.8 |
| Wed | 10.7 | 10.7 | 1.5 | 8.4 | 1.5 | 4.6 | 1.9 |
| Thur | 11.0 | 11.0 | 1.4 | 8.1 | 1.6 | 4.4 | 1.8 |
| Thur | 10.9 | 10.9 | 1.3 | 8.2 | 1.5 | 4.5 | 1.9 |
| Fri | 10.8 | 10.8 | 1.3 | 8.4 | 1.5 | 4.6 | 1.8 |
| Fri | 10.2 | 10.2 | 1.4 | 8.6 | 1.6 | 4.6 | 1.9 |
| Sat | 10.6 | 10.6 | 1.4 | 8.4 | 1.5 | 4.6 | 1.9 |
| Sat | 10.8 | 10.8 | 1.3 | 8.2 | 1.4 | 4.5 | 1.8 |
| AVG: | 10.7 | 10.7 | 1.3 | 8.3 | 1.5 | 4.6 | 1.8 |

JDA Bird Counts: <u>4/9/17</u> to <u>4/15/17</u>

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

| Date | Zone | | G | Gulls | | | Corr | norant | | | Casp | ian ter | n | | White | e Pelica | n | | G | rebe | | Total |
|--------|-------|------|------|-------|-------|------|------|--------|-------|------|------|---------|-------|------|-------|----------|-------|------|------|-------|-------|-------|
| Date | Zone | 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) | iotai |
| 9-Apr | PHFB | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 18 | 0 | 0 | 49 |
| 9-Apr | SWFB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | PH1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | PH2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | PH3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | SW1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Apr | SW3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | ırvey | | 3 | |) | 0 | ١ | 2 | 2 | (|) | | 0 | (| 0 | (|) | 2 | 1 | |) | 49 |
| 10-Apr | PHFB | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 | 0 | 0 | 48 |
| 10-Apr | SWFB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-Apr | PH1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 10-Apr | PH2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-Apr | PH3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-Apr | SW1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-Apr | SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-Apr | SW3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | ırvey | | 2 | (| 0 | 0 | | (|) | (|) | (| 0 | (| 0 | (|) | 2 | 3 | (| 0 | 49 |
| 11-Apr | PHFB | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 23 | 56 |
| 11-Apr | SWFB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | PH1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | PH2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | PH3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | SW1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | | | 1 | (|) | 0 | 1 | | 1 | (|) | (| 0 | (| 0 | (|) | 1 | 2 | 1 | 2 | 56 |
| 12-Apr | PHFB | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 36 | 31 | 101 |
| 12-Apr | SWFB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | PH1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | PH3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | urvey | | 0 | (| 0 | 0 | | 1 | 5 | |) | | 0 | (| 0 | (|) | 3 | 3 | 3 | 4 | 101 |

JDA Bird Counts: <u>4/9/17</u> <u>to</u> <u>4/15/17</u>

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

| Date | Zone | | G | Gulls | | | Corr | norant | | | Casp | ian ter | n | , | White | e Pelica | n | | Grebe | | | Total |
|--------|-------|------|------|-------|-------|------|------|--------|-------|------|------|---------|-------|------|-------|----------|-------|------|-------|-------|-------|-----------|
| Date | Zone | 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) | iotai |
| 13-Apr | PHFB | 0 | 0 | 4 | 0 | 0 | 0 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 38 | 79 |
| 13-Apr | SWFB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 32 |
| 13-Apr | PH1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Apr | PH2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Apr | PH3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Apr | SW1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Apr | SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Apr | SW3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | urvey | | 0 | | 2 | (|) | 1 | 4 | (| 0 | (|) | (|) | (| 0 | . ! | 5 | 3 | 5 | 111 |
| 14-Apr | | 0 | 0 | 5 | 6 | 0 | 0 | 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 38 | 42 | 125 |
| 14-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | PH1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | SW1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | SW2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | | | 0 | (| 6 | (|) | 1 | 4 | (| 0 | (|) | (|) | (| 0 | | 4 | | 0 | 125 |
| 15-Apr | | 2 | 4 | 0 | 0 | 0 | 0 | 18 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 40 | 44 | 122 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15-Apr | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg/Su | urvey | | 3 | (| 0 | 1 | 1 | 1 | 3 | | 0 | (|) | (|) | (| 0 | 3 | 3 | 4 | 2 | 124 |

| Totals | (| Gulls | Corı | morant | Casp | ian tern | White | e Pelican | G | Total | |
|--------------|----|----------------|------|--------|------|----------|-------|-----------|-----|-------|-----|
| Iotais | F | F NF F NF F NF | | F | NF | IOtal | | | | | |
| Weekly Total | 16 | 15 | 2 | 120 | 0 | 0 | 0 | 0 | 138 | 324 | 615 |
| Avg/Survey | 1 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 10 | 23 | 44 |