

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 2/20/2021

Inspection Period: 2/14/2021 thru 2/20/2021



**US Army Corps
of Engineers**
Portland District

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.
Additional and frequent monitoring, of the PLC displays in SMF Fisheries Office, as necessary.

| John Day Dam | Inspection OOC | Criteria Limit | Total Number of Inspections: 5 | | | Temperature: 38.3 F | Secchi: 6.0 Ft. |
|-------------------------------------|----------------|----------------|--------------------------------|-----|-------|---------------------|-----------------|
| NORTH FISHWAY | | | | | | | |
| Exit differential | 0 | ≤ 0.5' | | | | | |
| Exit Control weirs | 0 | High setting | High setting is normal | | | | |
| Count station differential | 0 | ≤ 0.3' | | | | | |
| Entrance differential | 0 | 1.0' - 2.0' | AVG (Ft.) | 1.6 | | | |
| SOUTH FISHWAY | | | | | | | |
| Exit differential | 0 | ≤ 0.5' | | | | | |
| Exit Control weirs | 0 | Mid setting | Mid setting is normal | | | | |
| 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 (Ft.) | OOS | | | |
| Entrance weir SE1 | 0 | depth (≥ 8') | AVG (Ft.) | OOS | | | |
| Collection channel velocity | 0 | 1.5 - 4 fps | AVG (Ft.) | OOS | | | |
| N. Entrance PH(Bay 19)differential | 0 | 1.0' - 2.0' | AVG (Ft.) | OOS | | | |
| Entrance weir NE1 | 0 | depth (≥ 8') | AVG (Ft.) | OOS | | | |
| Entrance weir NE2 | 0 | depth (≥ 8') | AVG (Ft.) | OOS | | | |
| JUVENILE PASSAGE | | | | | | | |
| Forebay/bypass conduit differential | 0 | 4.0' - 5.0' | AVG (Ft.) | OOS | | | |
| Submersible traveling screens | 0 | visual inspect | Last Visual Inspection | | | | |
| Turbine trashrack drawdown | 0 | <1.5', wkly | | | | | |
| Vert barrier screen drawdown | 0 | <1.5', wkly | | | | | |
| Spill volume | 0 | per FPP | Avg (kcfs) | OOS | Avg % | OOS | |
| Spill pattern | 0 | per FPP | | | | | |
| Turbine Unit Priority | 0 | per FPP | | | | | |
| Turbine 1% Efficiency | 0 | per FPP | | | | | |

Fisheries Related Operations

Smolt Monitoring Operations:

Smolt Monitoring Facility has been dewatered for the winter.

Adult Ladder Operations:

JD South Adult Fishway was dewatered on January 19th.

JD North Adult Fishway was RTS January 15.

Project Operations:

Current outages: MU5, MU6, MU7, MU12, MU16. JBS OOS 2/3/21 for annual maintenance.

Tailwater Average Weekly TDG: 100.4

Maintenance:

JD North Fishway's pump 4 has been pulled for maintenance. - JD Maintenance continue repairs of AWS fish pump 4. RTS has yet TBD.

Calibration - All gauges within the 0.3' criteria.

Bird Data:

Steady number of DCCO. (see 'Bird Count' tab for details).

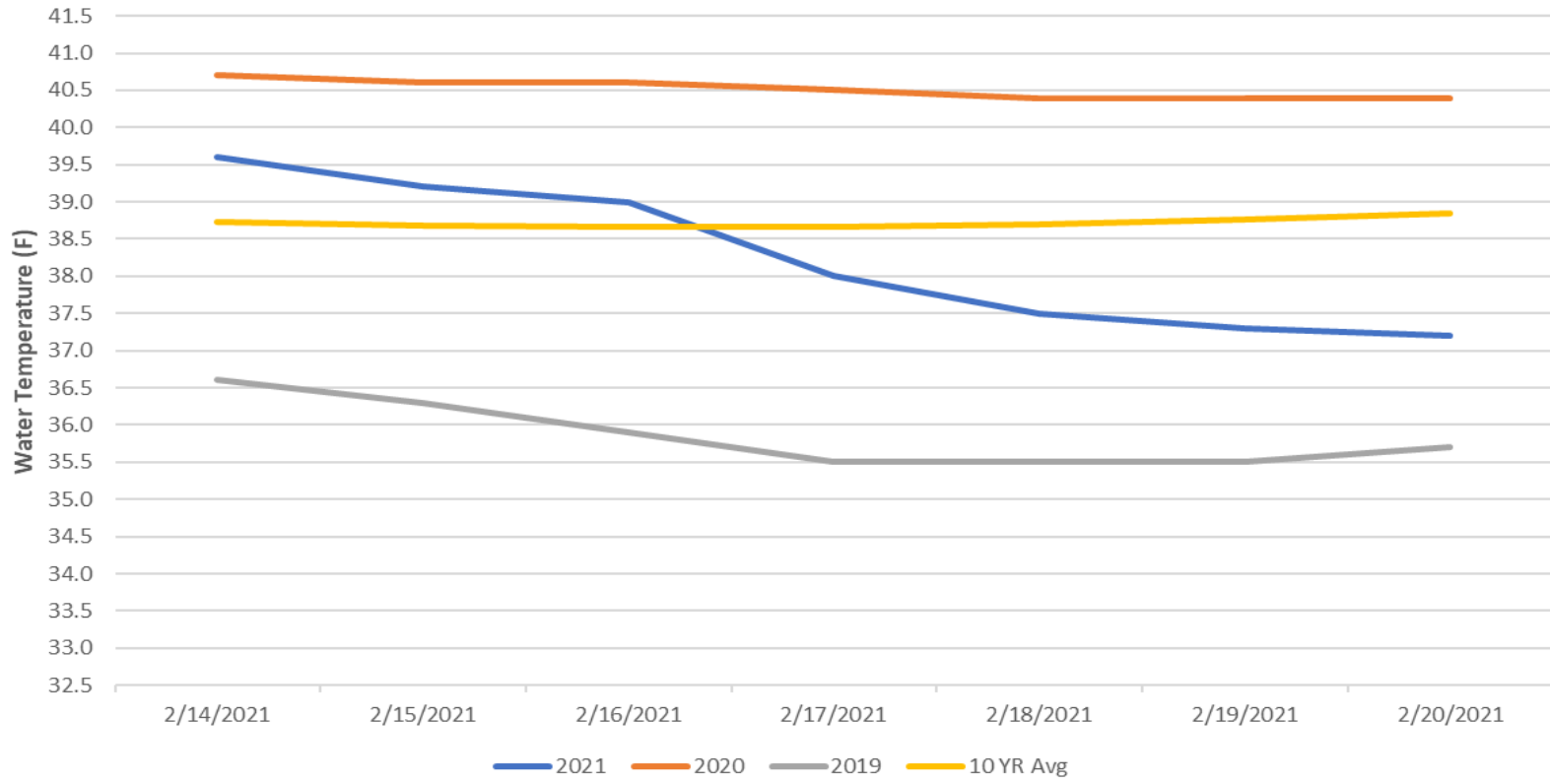
1 of 125 avian lines down, will need to be replaced

Pelicans on Preacher's Island: averaged 0 per day

Research:

Approved by: Brett Call, OPM

John Day Dam Water Temperatures (F)



JDA Collection Channel Velocity

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

| Date | Measurement Location | Speed (ft/sec) | SFL Turbine RPMs (1,2,3) | Bay 19 TW (ft) |
|------|----------------------|----------------|--------------------------|----------------|
| | | | | |
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|----------------------------------|-----|
| Average Weekly Velocity (ft/sec) | OOS |
|----------------------------------|-----|

JOHN DAY WEEKLY AVERAGES

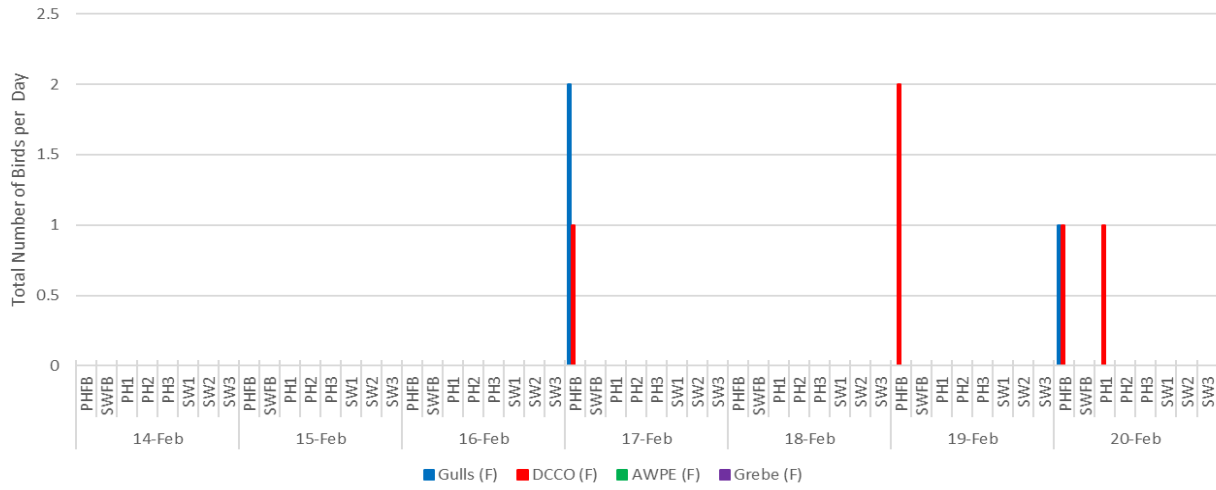
| | NE1 (Ft) | NE2 (Ft) | S.Ent (Ft) | SE1 (Ft) | N.Ent (Ft) | JBS Diff (Ft) | Bay19 (Ft) | Spill Vol. (kcfs) | Spill % | # Spillbays |
|------------------|----------|----------|------------|----------|------------|---------------|------------|-------------------|---------|-------------|
| Sunday | OOS | OOS | OOS | OOS | | OOS | OOS | OOS | OOS | OOS |
| Monday | OOS | OOS | OOS | OOS | | OOS | OOS | OOS | OOS | OOS |
| Tuesday | OOS | OOS | OOS | OOS | 1.7 | OOS | OOS | OOS | OOS | OOS |
| Wednesday | OOS | OOS | OOS | OOS | 1.6 | OOS | OOS | OOS | OOS | OOS |
| Thursday | OOS | OOS | OOS | OOS | 1.5 | OOS | OOS | OOS | OOS | OOS |
| Friday | OOS | OOS | OOS | OOS | 1.5 | OOS | OOS | OOS | OOS | OOS |
| Saturday | OOS | OOS | OOS | OOS | 1.5 | OOS | OOS | OOS | OOS | OOS |
| AVG: | OOS | OOS | OOS | OOS | 1.6 | OOS | OOS | OOS | OOS | OOS |

| | Temp (F) | Secchi (Ft) | Fallbacks | Pelicans on Island |
|------------------|-------------|-------------|------------|--------------------|
| Sunday | 39.6 | 6.0 | N/A | 0 |
| Monday | 39.2 | 6.0 | N/A | 0 |
| Tuesday | 39.0 | 6.0 | N/A | 0 |
| Wednesday | 38.0 | 6.0 | N/A | 0 |
| Thursday | 37.5 | 6.0 | N/A | 0 |
| Friday | 37.3 | 6.0 | N/A | 0 |
| Saturday | 37.2 | 6.0 | N/A | 1 |
| AVG | 38.3 | 6.0 | N/A | 0 |

John Day Dam
Avian Zones



Foraging Avian Observations



Non-Foraging Avian Observations

