

## FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 1/16/2021

Inspection Period: 1/10/2021 thru 1/16/2021



**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.

<b>John Day Dam</b>	Inspection OOC	Criteria Limit	Total Number of Inspections: 7				Temperature:	41.9 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.)	OOS					

### 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.)	1.2					
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.6					
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.76					
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.3					
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	10.2					
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	10.4					

### JUVENILE PASSAGE

Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.5					
Submersible traveling screens	0	visual inspect	Last Visual Inspection		Next 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 is operating within criteria. South Fish ladder is scheduled to be dewatered January 19th.  
JD North Adult Fishway was RTS January 15.

### **Project Operations:**

Current outages: MU6, MU7, MU9, MU12.

Tailwater Average Weekly TDG

### **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:**

Decreasing foraging and non foraging gulls this week. (see 'Bird Count' tab for details).

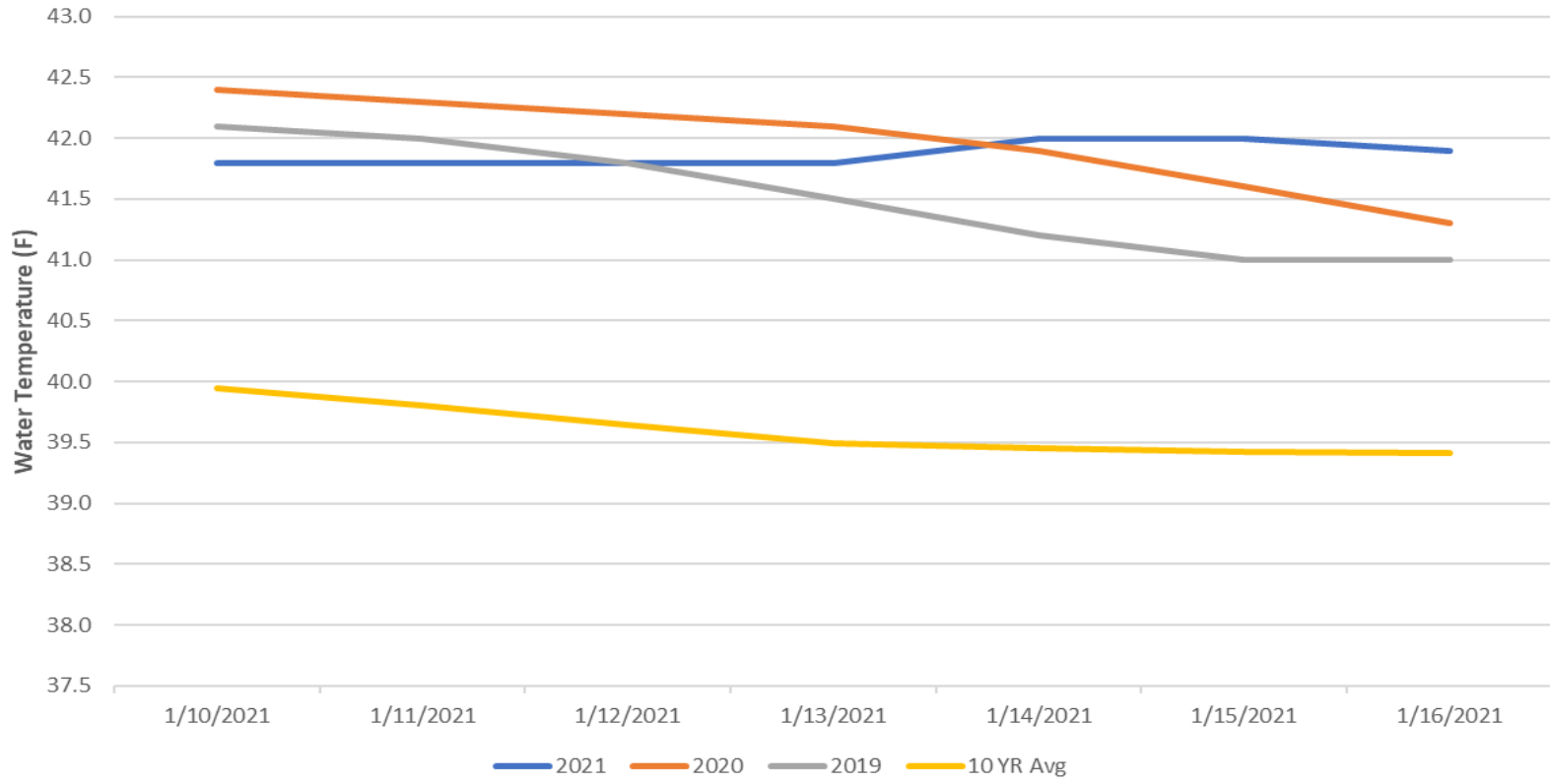
1 of 125 avian lines down, will need to be replaced

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)
1/10/2021	Unit 4	2.69	0,68,68	161.1
1/10/2021	Unit 12	2.82	0,68,68	161.1

Average Weekly Velocity (ft/sec)	2.76
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## 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
<b>Sunday</b>	9.5	9.7	1.3	9.1	OOS	4.5	1.5	OOS	OOS	OOS
<b>Monday</b>	10.2	10.4	1.2	9.8	OOS	4.5	1.4	OOS	OOS	OOS
<b>Tuesday</b>	11.0	11.2	1.2	10.3	OOS	4.5	1.2	OOS	OOS	OOS
<b>Wednesday</b>	10.2	10.4	1.2	9.9	OOS	4.5	1.3	OOS	OOS	OOS
<b>Thursday</b>	10.1	10.3	1.2	8.9	OOS	4.6	1.3	OOS	OOS	OOS
<b>Friday</b>	OOS	OOS	OOS	OOS	1.5	4.5	OOS	OOS	OOS	OOS
<b>Saturday</b>	OOS	OOS	OOS	OOS	1.4	4.6	OOS	OOS	OOS	OOS
<b>AVG:</b>	<b>10.2</b>	<b>10.4</b>	<b>1.2</b>	<b>9.6</b>	<b>OOS</b>	<b>4.5</b>	<b>1.3</b>	<b>OOS</b>	<b>OOS</b>	<b>OOS</b>

	Temp (F)	Secchi (Ft)	Fallbacks	Pelicans on Island
<b>Sunday</b>	41.8	6.0	N/A	0
<b>Monday</b>	41.8	6.0	N/A	0
<b>Tuesday</b>	41.8	6.0	N/A	0
<b>Wednesday</b>	41.8	6.0	N/A	0
<b>Thursday</b>	42.0	6.0	N/A	0
<b>Friday</b>	42.0	6.0	N/A	0
<b>Saturday</b>	41.9	6.0	N/A	0
<b>AVG</b>	<b>41.9</b>	<b>6.0</b>	<b>N/A</b>	<b>0</b>

John Day Dam  
Avian Zones

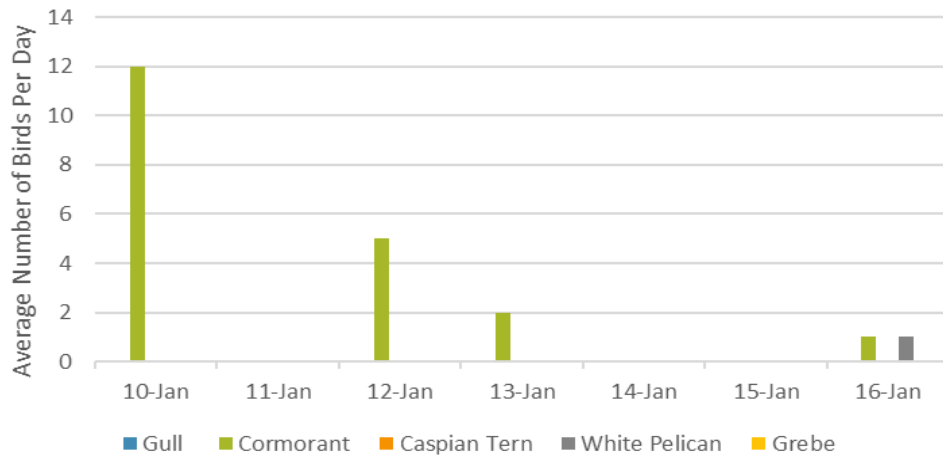








### Foraging Piscivorous Birds



### Non-Foraging Piscivorous Birds

