

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 1/8/2022

Inspection Period: 1/2/2022 thru 1/8/2022



**US Army Corps
of Engineers**
Portland District

JD/WC Project-Fisheries
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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 OOC	Criteria Limit	Total Number of Inspections: 6		Temperature: 37.7 F	Secchi: 5.3 Ft.
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NORTH FISHWAY

Exit differential	0	≤ 0.5'					
Exit Control weirs	0	High setting	NFL Taken OOS for Winter Maintenance on 12-6-21				
Count station differential	0	≤ 0.3'					
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	N/A			

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	1	1.0' - 2.0'	AVG (Ft.)	1.2			
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.1			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.75			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.5			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	10.2			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	10.1			

JUVENILE PASSAGE

Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.4			
Submersible traveling screens	0	visual inspect	STSs being removed for winter maintenance				
Turbine trashrack drawdown	0	<1.5', wkly					
Vert barrier screen drawdown	0	<1.5', wkly					
Spill volume	0	per FPP	AVG (kcfs)	0.0	Avg %	0.0	
Spill pattern	0	per FPP					
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

Fisheries Related Operations

Smolt Monitoring Operations:

Adult Ladder Operations:

South fish ladder is operating within criteria. North fish ladder was dewatered on 12/6.

Project Operations:

Current outages: North Fish Ladder, SMF, MU3, MU6, MU7, MU12

Maintenance:

Winter maintenance continues on North Fish Ladder

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

Cormorant numbers are low, mainly roosting on rocks in SW2 and SW3 or towers in PHFB. Gull numbers minimal, mainly resting in the water in PHFB or SWFB and foraging in the tailrace mainly PH1 and PH3. A couple pelicans seen occasionally resting on Preacher's Island. Grebes have dispersed. (see 'Bird Count' tab for details). Bird counts are not currently conducted Friday-Sunday.

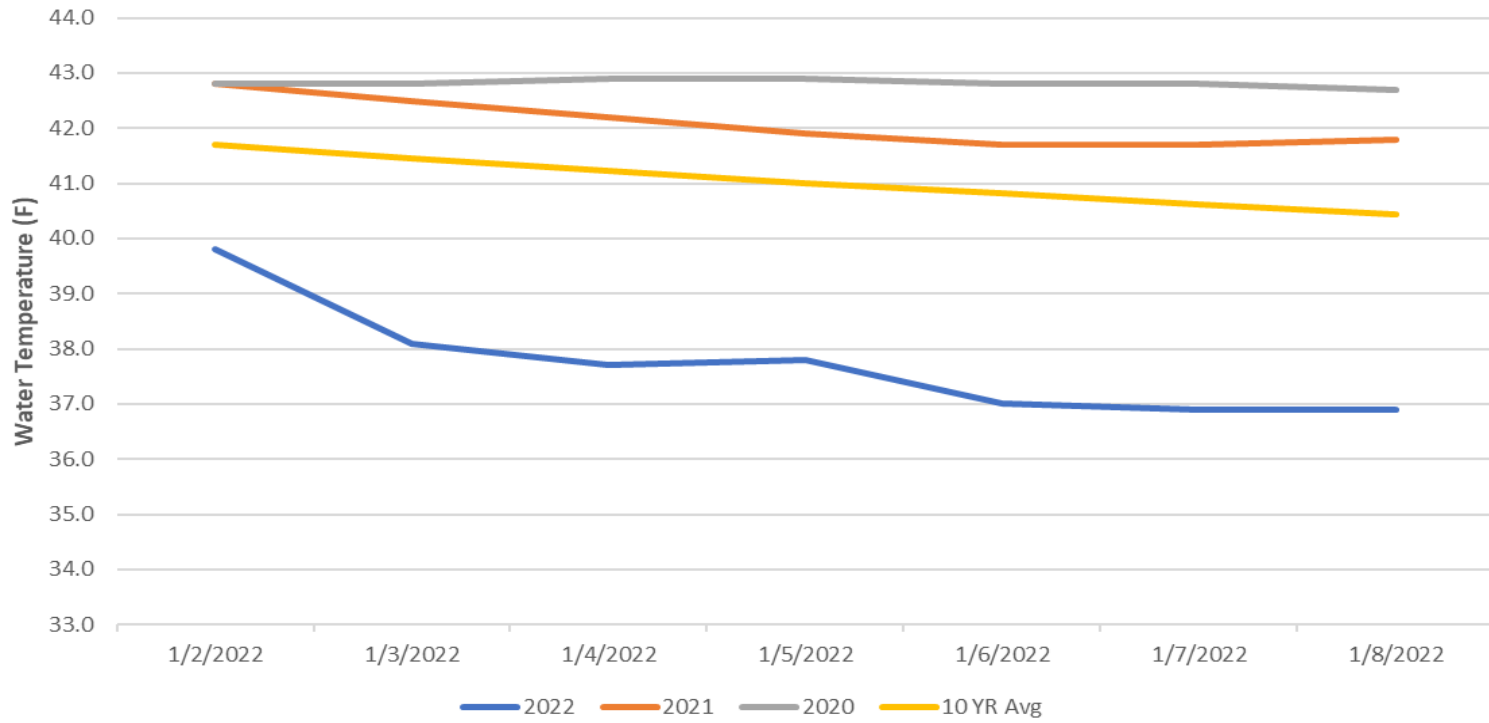
8 of 125 avian lines down, will need to be replaced

Pelicans on Preacher's Island: averaged 0 per day

Research:

None

John Day Dam Water Temperature (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)
1/5/2022	Unit 4	2.71	0,68,68	161.2
1/5/2022	Unit 12	2.79	0,68,68	161.2

Average Weekly Velocity (ft/sec)	2.75
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JOHN DAY WEEKLY AVERAGES

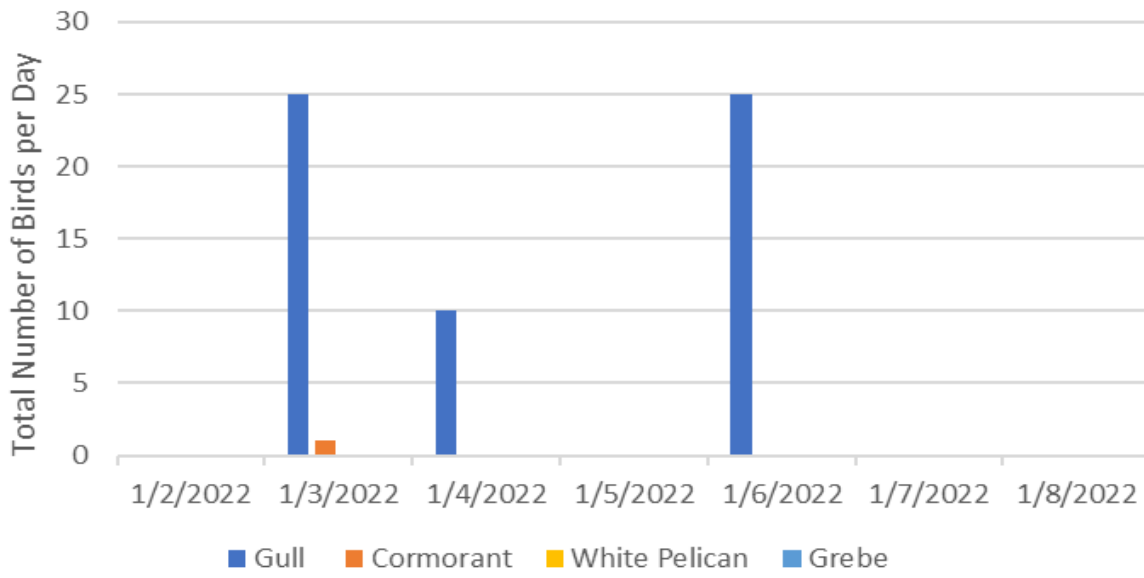
	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)	Spill Vol. (kcfs)	Spill %	# Spillbays
Sunday	9.9	9.8	1.3	9.0		4.4	1.6	0.0	0.0	0
Monday	10.2	10.1	1.3	9.2		4.4	1.5	0.0	0.0	0
Tuesday	10.7	10.6	0.5	9.5		4.4	1.3	0.0	0.0	0
Wednesday	10.8	10.7	1.1	9.3		4.5	1.5	0.0	0.0	0
Thursday	9.9	9.8	1.2	8.3		4.2	1.4	0.0	0.0	0
Friday	9.7	9.6	1.3	8.5		4.3	1.7	0.0	0.0	0
Saturday	10.0	10.1	1.4	10.1		4.4	1.7	0.0	0.0	0
AVG:	10.2	10.1	1.2	9.1	N/A	4.4	1.5	0.0	0.0	0.0

	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	39.8	5.0	N/A	0
Monday	38.1	5.0	N/A	1
Tuesday	37.7	5.0	N/A	0
Wednesday	37.8	5.5	N/A	0
Thursday	37.0	5.5	N/A	0
Friday	36.9	5.5	N/A	0
Saturday	36.9	5.5	N/A	0
AVG	37.7	5.3	N/A	0

John Day Dam
Avian Zones



Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

