

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 3/11/2023

Inspection Period: 3/5/2023 thru 3/11/2023



**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: 14			Temperature: 37.8 F	Secchi: 6.0 Ft.
NORTH FISHWAY							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	High setting					
Count station differential	0	≤ 0.3'					
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	1.5			
SOUTH FISHWAY							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	Mid setting					
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.)	1.3			
Entrance weir SE1	1	depth (≥ 8')	AVG (Ft.)	8.6			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	1.63			
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG (Ft.)	1.9			
Entrance weir NE1	14	depth (≥ 8')	AVG (Ft.)	-3.0			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.2			
JUVENILE PASSAGE							
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	#DIV/0!			
Submersible traveling screens	0	visual inspect					
Turbine trashrack drawdown	0	<1.5', wkly					
Vert barrier screen drawdown	0	<1.2', wkly					
Spill volume	0	per FPP	Avg (kcfs)	0.0	Avg %		
Spill pattern	0	per FPP					
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

Fisheries Related Operations

Smolt Monitoring Operations:

SMF is dewatered, ETR 3/16/23

JBS is dewatered, ETR 3/13/23

Adult Ladder Operations:

NFL in criteria

SFL - 1 turbine operation, NE1 closed

South fish turbine 2 FOOS 3/1 due to excessive vibration

FOG's removed

Project Operations:

Current outages: MU4 (ETR: 11/2/23), MU5 (ETR: 4/27/23) MU7 (ETR: 7/31/28), MU8 (ETR: 1/10/24), MU10 (ETR: 11/15/23)

MU13 (ETR: 6/14/23) Navlock (ETR: 3/18/23)

Maintenance:

SMF down for Winter Maintenance

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

Grebes haven't been present, gull numbers are fewer than 10, and cormorant numbers are holding steady (~60).

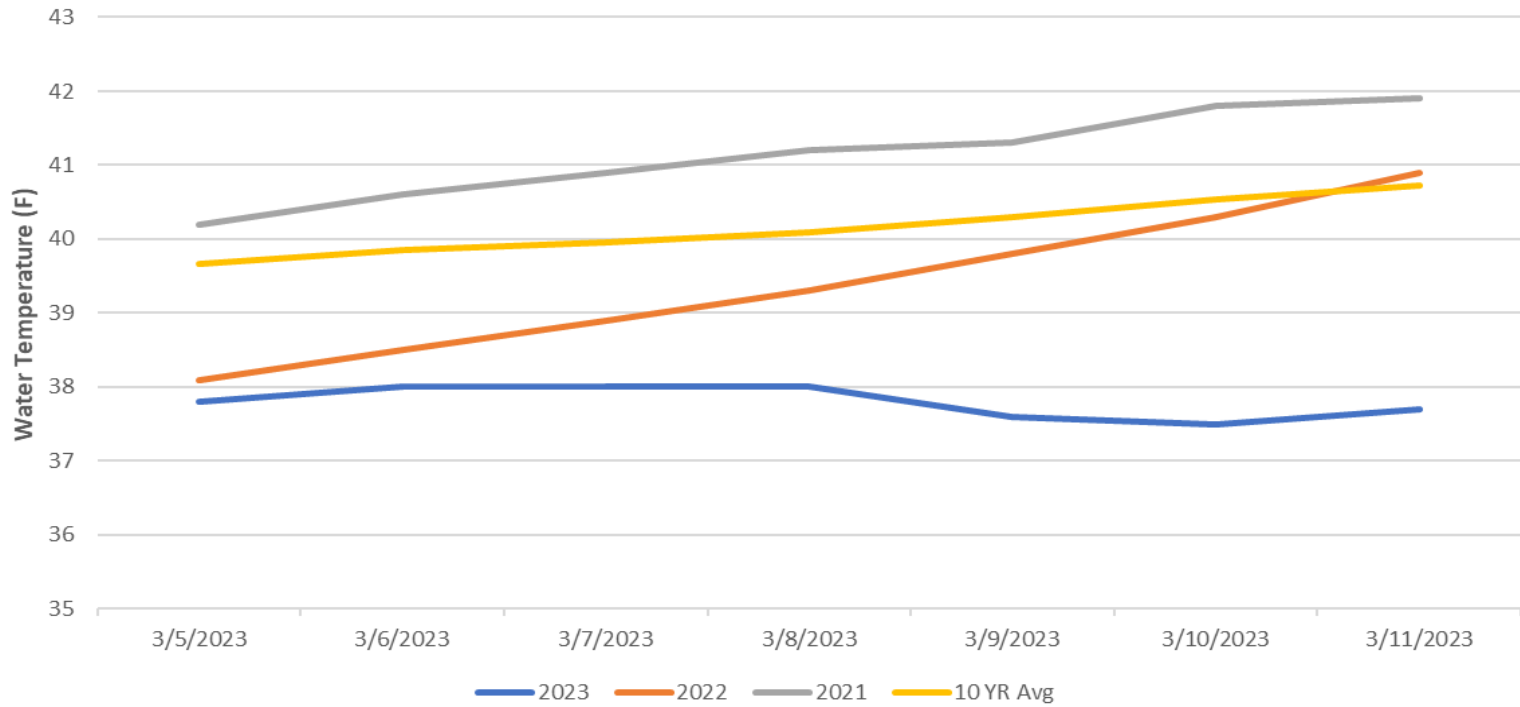
There are approximately 3 pelicans hanging around Preacher's Island with very few foraging observations in JDA bird counting zones.

11 of 125 avian lines down, in contracting phase for replacement of 9 lines from powerhouse roof.

Research:

Preperations for the 2023 Research Season are underway - No new research is scheduled at this time

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)
3/6/2023	Unit 4	1.69	67,0,0	159.4
3/6/2023	Unit 12	1.73	67,0,0	159.4
3/7/2023	Unit 4	1.60	67,0,0	159.2
3/7/2023	Unit 12	1.63	67,0,0	159.2
3/8/2023	Unit 4	1.57	68,0,0	159.2
3/8/2023	Unit 12	1.60	68,0,0	159.2
3/9/2023	Unit 4	1.62	68,0,0	159.1
3/9/2023	Unit 12	1.66	68,0,0	159.1
3/10/2023	Unit 4	1.60	68,0,0	159.5
3/10/2023	Unit 12	1.64	68,0,0	159.5
3/11/2023	Unit 4	1.62	68,0,0	159.8
3/11/2023	Unit 12	1.61	68,0,0	159.8

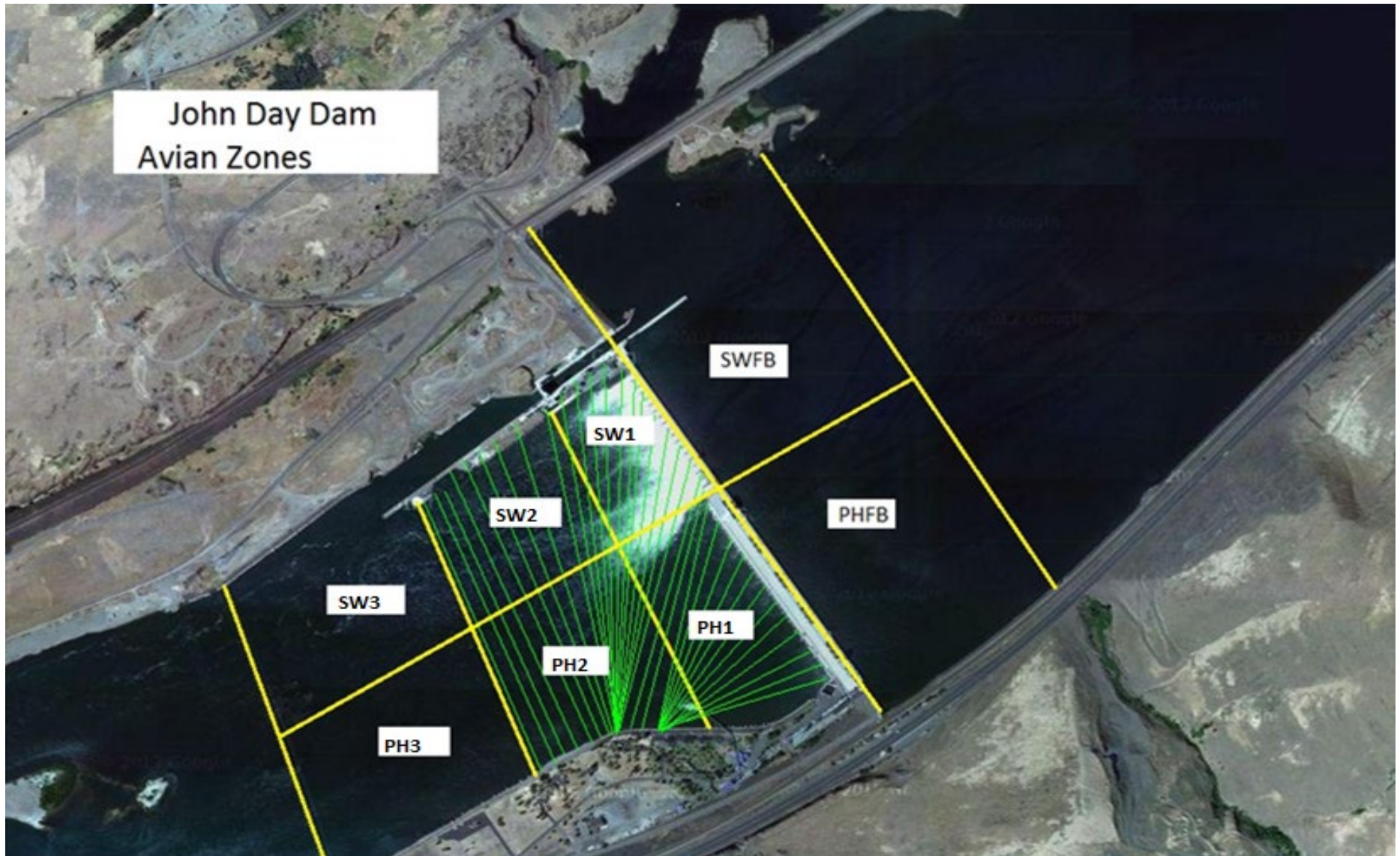
Average Weekly Velocity (ft/sec)	1.63
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JOHN DAY WEEKLY AVERAGES

	South Fish Ladder					NFL	JBS	Spill	
	SE1 (Ft)	S.Ent (Ft)	NE1 (Ft)	NE2 (Ft)	Bay19 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Spill Vol. (kcfs)	# Spillbays
Sunday	8.3	1.4	-3.0	9.1	1.6	1.5	X	0.0	0.0
Sunday	8.5	1.2	-3.0	9.3	1.8	1.6	X	0.0	0.0
Monday	8.2	1.5	-3.2	9.0	2.2	1.1	X	0.0	0.0
Monday	8.1	1.1	-3.1	9.2	1.8	1.6	X	0.0	0.0
Tuesday	8.2	1.4	-3.2	8.9	1.9	1.6	X	0.0	0.0
Tuesday	7.8	1.5	-3.3	8.8	2.0	1.7	X	0.0	0.0
Wednesday	9.3	1.1	-2.5	9.6	2.0	1.5	X	0.0	0.0
Wednesday	8.2	1.3	-3.3	8.9	2.1	1.6	X	0.0	0.0
Thursday	9.2	1.0	-2.6	9.6	1.9	1.4	X	0.0	0.0
Thursday	8.4	1.3	-3.2	8.9	2.1	1.6	X	0.0	0.0
Friday	9.3	1.2	-2.3	9.8	1.8	1.5	X	0.0	0.0
Friday	8.5	1.3	-3.1	9.1	1.9	1.5	X	0.0	0.0
Saturday	9.8	1.2	-2.8	9.4	2.0	1.6	X	0.0	0.0
Saturday	8.0	2.0	-3.1	9.6	1.3	1.6	X	0.0	0.0
AVG:	8.6	1.3	-3.0	9.2	1.9	1.5	#DIV/0!	0.0	0.0

	Temp (F)	Secchi (Ft)	Notes
Sunday	37.8	6.0	X: Winter Maintenance On Wednesday 3/1 South Fish Turbine 2 was forced out of service (south fish turbine 3 also OOS) which left the SFL in a 1 turbine operation. In this operation NE 1 is to be closed and SE1 and NE2 are maintained to meet the entrance head differential.
Monday	38.0	6.0	
Tuesday	38.0	6.0	
Wednesday	38.0	6.0	
Thursday	37.6	6.0	
Friday	37.5	6.0	
Saturday	37.7	6.0	
AVG	37.8	6.0	

John Day Dam
Avian Zones



JDA Bird Counts: 3/5/23 to 3/11/23

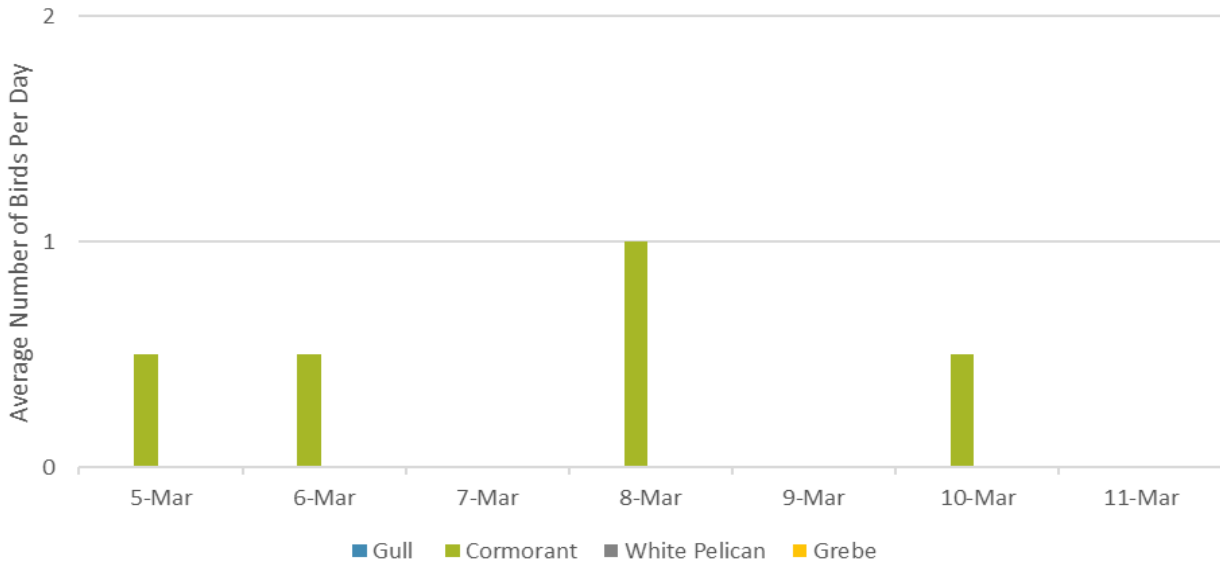
F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

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)	
9-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Mar	PH3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	3
9-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Mar	SW2	0	0	0	0	0	0	40	25	0	0	0	0	0	0	0	0	0	0	0	0	65
9-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		0		33		0		0		0		1		0		0		34
10-Mar	PHFB	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Mar	SW2	0	0	0	0	0	0	23	21	0	0	0	0	0	0	0	0	0	0	0	0	44
10-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		1		22		0		0		0		0		0		0		23
11-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
11-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Mar	SW2	0	0	0	0	0	0	35	42	0	0	0	0	0	0	0	0	0	0	0	0	77
11-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		0		39		0		0		0		1		0		0		40

Totals	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF					
Weekly Total	0	0	5	445	0	0	0	0	0	7	0	0	0	0	0	0					
Avg/Survey	0	0	0	32	0	0	0	0	0	1	0	0	0	0	0						



Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

