		FISHWA	Y STATU	JS REPORT	- JOHN I	DAY DAM					
Inspec	Date: ction Period:	5/7/2022 5/1/2022	thru	5/7/2022	US Army Cor of Engineers Portland District	P.O. Box 823 Rufus, Orego	JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860				
All JD Fishways are inspected twice per Additional and frequent monitoring, o			-								
John Day Dam	Inspection OOC	Criteria Limit		Total Number o	of Inspections:	14	Temperature: Secchi:	51.0 F 4.9 Ft.			
			N	ORTH FISH	NAY						
Exit differential	0	≤ 0.5'									
Exit Control weirs	0	High setting			•	•	I I				
Count station differential	0	≤ 0.3'									
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	1.5							
			S	OUTH FISH	NAY						
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	0	depth (≥ 8')	AVG (Ft.)	10.2							
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.80							
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.8							
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	10.0							
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.8							
			JU	VENILE PAS	SAGE						
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.6							
Submersible traveling screens	0	visual inspect	next visual i	nspection 5/23 -	5/26						
Turbine trashrack drawdown	0	<1.5', wkly									
Vert barrier screen drawdown	0	<1.5', wkly									
Spill volume	0	per FPP	Avg (kcfs)	103.6	Avg %	58.5					
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 started the 2022 sampling season on April 1 for condition monitoring only. From April 1 - June 15 condition sampling will occur 5 days a week (Monday-Friday) from approximately 0700-1300 or until the target of 100 fish of the predominant species has been reached. From June 16 - September 15 condition sampling will occur 3 days a week (Monday, Wednesday, Friday) from approximately 0700-1300 or until the target of 100 fish of the predominant species has been reached. From June 16 - September 15 condition sampling will occur 3 days a week (Monday, Wednesday, Friday) from approximately 0700-1300 or until the target of 100 fish of the predominant species has been reached. High water temperature protocol goes into effect when water temperatures exceed 70F.

Adult Ladder Operations:

Both ladders are operating within criteria.

Project Operations:

Current outages: MU3, MU4, MU7. Spring spill started April 10 along with the Caspian tern forebaby operation for the Blalock islands. USDA avian hazing started 16 April. Tailwater average weekly TDG: 117.4 **Maintenance**:

South fish turbine #2 was forced out of service on 30 March with an excessive vibration issue. Pumps 1 & 3 are running.

Calibration:

All gauges within the 0.3' criteria.

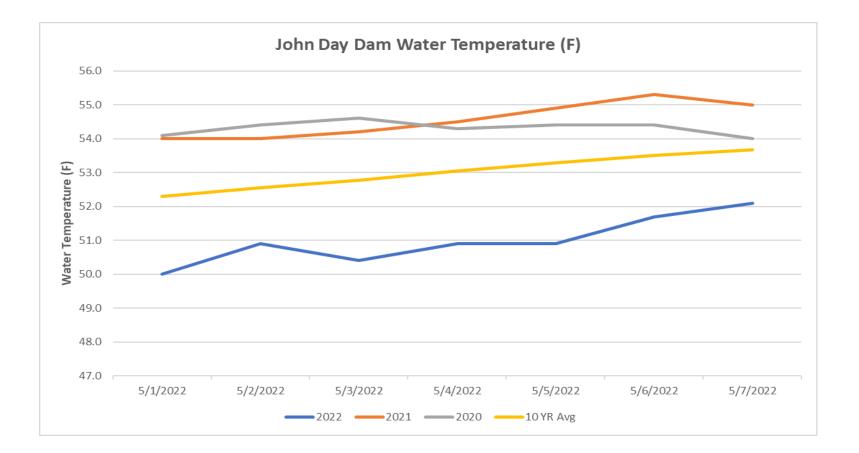
Bird Data:

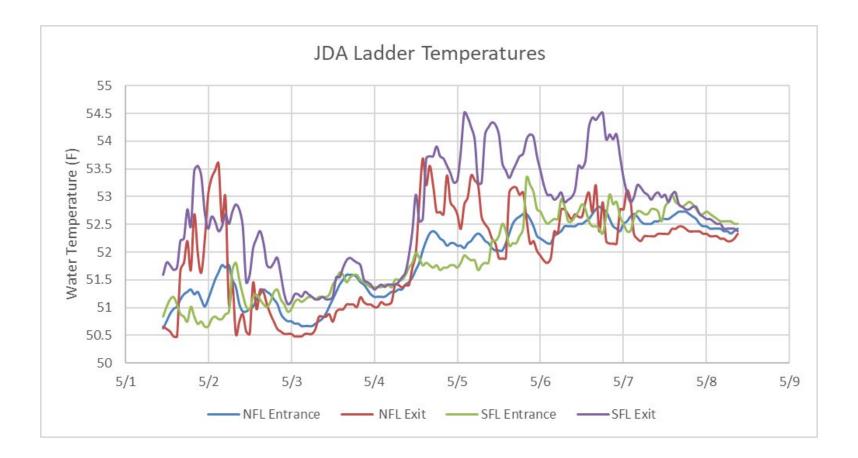
Cormorant numbers are minimal. Gull numbers are increasing with more foraging observed in the tailrace. Pelican numbers starting to incease on Preacher's Island, with a few seen foraging in the tailrace. Grebe numbers are steady, mainly in PHFB. (see 'Bird Count' tab for details). 1 of 125 avian lines down.

Pelicans on Preacher's Island: averaged 9 per day

Research:

Adult fish counting started April 1. USGS temperature probes were installed in the forebay on 3/29.





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)
5/2/2022	Unit 4	2.90	68,0,68	159.5
5/2/2022	Unit 12	2.82	68,0,68	159.5
5/4/2022	Unit 4	2.66	68,0,68	160.3
5/4/2022	Unit 12	2.72	68,0,68	160.3
5/7/2022	Unit 4	2.79	68,0,68	160.1
5/7/2022	Unit 12	2.89	68,0,68	160.1

Average Weekly Velocity (ft/sec)	2.80

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	10.0	9.8	1.2	10.3	1.5	4.6	1.8	108.2	68.0	19
Sunday	9.4	9.2	1.3	9.6	1.5	4.5	1.8	108.4	67.8	19
Monday	10.0	9.8	1.2	10.4	1.4	4.5	1.9	89.8	63.7	19
Monday	9.7	9.5	1.3	9.9	1.7	4.5	1.7	89.9	64.1	19
Tuesday	10.1	9.9	1.2	10.6	1.4	4.6	1.9	50.9	31.9	18
Tuesday	10.1	9.9	1.3	10.3	1.7	4.6	1.6	110.1	68.2	19
Wednesday	10.4	10.2	1.2	10.6	1.5	4.8	1.5	50.3	32.0	18
Wednesday	9.7	9.5	1.2	10.0	1.7	4.5	1.6	115.1	61.1	19
Thursday	10.3	10.2	1.3	10.6	1.4	4.7	1.8	53.8	32.1	19
Thursday	9.9	9.7	1.1	10.4	1.3	4.5	1.7	117.2	70.1	19
Friday	10.6	10.4	1.1	10.9	1.3	4.7	1.7	64.2	32.0	19
Friday	10.0	9.8	1.4	9.5	1.7	4.5	1.8	158.0	75.0	19
Saturday	9.9	9.7	1.4	9.5	1.7	4.5	1.9	157.8	75.1	19
Saturday	10.0	9.8	1.4	9.6	1.7	4.5	1.9	177.1	77.4	19
AVG:	10.0	9.8	1.3	10.2	1.5	4.6	1.8	103.6	58.5	18.9

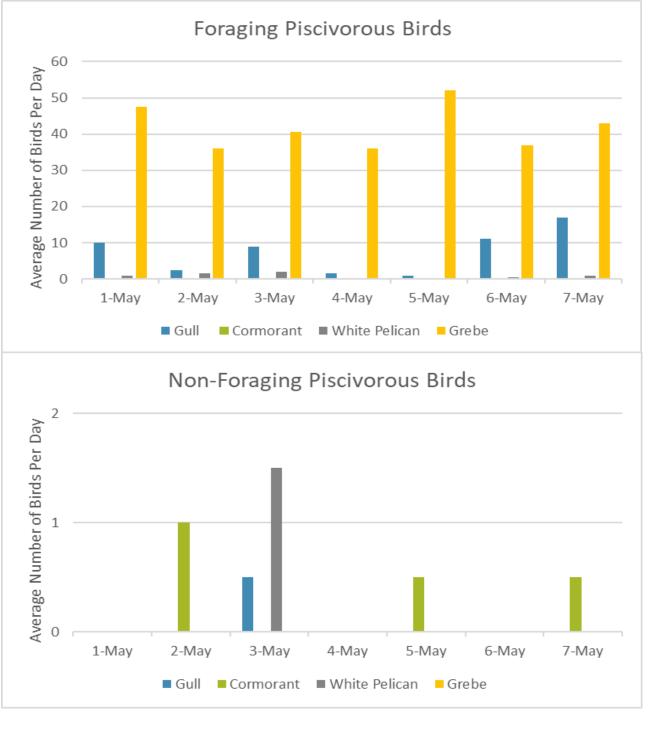
	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	50.0	5.0	N/A	4
Monday	50.9	5.0	2	6
Tuesday	50.4	5.0	0	3
Wednesday	50.9	5.0	2	10
Thursday	50.9	5.0	2	24
Friday	51.7	4.5	2	8
Saturday	52.1	4.5	N/A	7
AVG	51.0	4.9	2	9

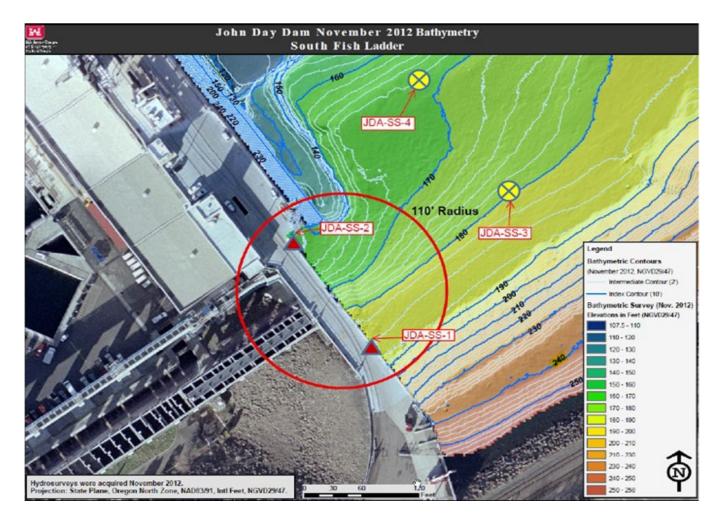


					Bird Co				/22	<u>to</u>	<u>5/7/2</u> 2	_										
		F(1): F	orage	AM su	irvey	F(2):	Fora	ge PM	Survey	NF	(1): Non	-Forage	e AM S	urvey	N	=(2): No	on-Fora	age Pl	VI Sur	vey		
Data	7		G	ulls		Cormorant					Caspian tern			White Pelican					Tetal			
Date	Zone	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	Total
1-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	39	0	0	95
1-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-May		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1-May		6	12	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	19
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-May		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total/S		10	_		0)		0		0	(L		0		8		0	59
2-May		0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	35	37	0	0	74
2-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2-May		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Total/S		3			0)		1		0		0		2		0	3	6		0	41
3-May		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	50	31	0	0	82
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		1	6	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	11
3-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May Total/S		0 9	9	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	12 54
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	45	0	0	72
-	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total/S		2	~	J I	0	()	(0	Ť	0	-	0	-)	-	0		6	Ŭ	0	38
	-1																					

				JDA E	Bird Co	ount	s:	<u>5/5</u>	/22	<u>to</u>	5/7/22	2										
		F(1): F	orage	AM su	irvey	F(2):	Fora	ge PM :	Survey	NF	(1): Non	-Forage	e AM S	urvey	N	=(2): No	on-Fora	age PN	/I Sur	vey		
	Gulls						Cor	norant			Caspian tern			White Pelican					G	rebe		
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)	Total
5-May	PHFB	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	40	64	0	0	105
5-May		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/S	urvey	1			0		0		1		0		0	()		0	5	2		0	54
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	7	0	0	50
6-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24
6-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
6-May	PH3	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/S	-	1:	-		0		0		0		0		0		L		0	3			0	49
7-May		3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	43	43	0	0	90
7-May		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0 11	0	0 0	0 0	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
7-May Total/S		11 17	12	-	0	-	0	Ū.	0	U	0	-	0	2	U	U	0	-	3 3	-	0	25 62
10(d)/3	urvey	1						-			U											02

Totals	G	ulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	Total
Weekly Total	104	1	0	4	0	0	12	3	584	0	354
Avg/Survey	7	0	0	0	0	0	1	0	42	0	<mark>51</mark>





On 5/6/22 John Day Fisheries deployed a temperature aray at JDA-SS-2 to gather more data about the vertical thermal profile of the forebay by the south fish ladder.