		FISHWA	Y STAT	US REPORT	- JOHN I	DAY DAM		
Inspe All JD Fishways are inspected twice pe Additional and frequent monitoring, o		ish passage sea	ason, Mar. 1			US Army Corp. of Engineers Portland District	JD/WC Projec P.O. Box 823 Rufus, Orego Phone: 541-5	n 97050
John Day Dam	Inspection OOC	Criteria Limit		Total Number o	of Inspections:	14	Temperature: Secchi:	61.2 F 3.9 Ft.
			Γ	NORTH FISH	WAY			
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				
			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.)	1.5				
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.3				
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.94				
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.7				
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	11.0				
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	10.6				
			JL	JVENILE PAS	SAGE			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)					
Submersible traveling screens	0	visual inspect	next visual	inspection 7/25-7	7/28			
Furbine trashrack drawdown	0	<1.5', wkly						
/ert barrier screen drawdown	0	<1.2', wkly						
Spill volume	0	per FPP	Avg (kcfs)	152.6	Avg %	41.8		
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. This was the last week of 5 days a week sampling due to high flows and high debris load. From July 4 - 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. Ladders switched to shad mode on 5/31.

Project Operations:

Current outages: MU3, MU4, MU7, MU10 Summer spill started 06/16. USDA avian hazing started 16 April. Tailwater average weekly TDG: 121

Maintenance:

South fish turbine #2 was forced out of service on 30 March with an excessive vibration issue.

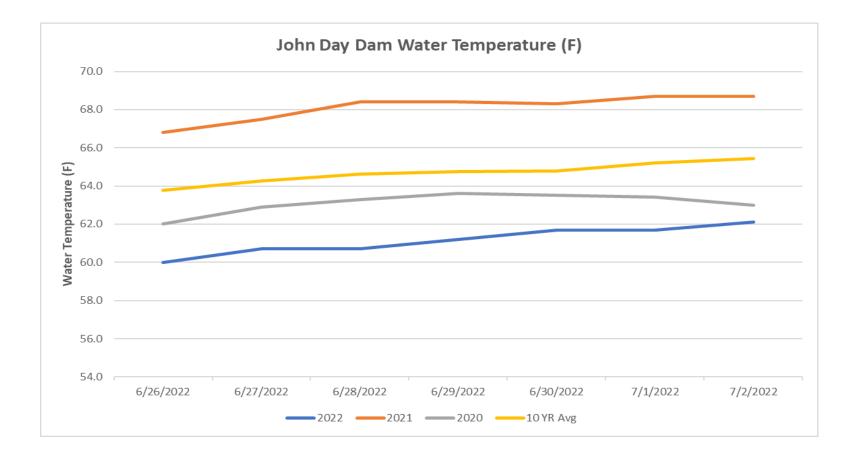
Calibration: All gauges within the 0.3' criteria.

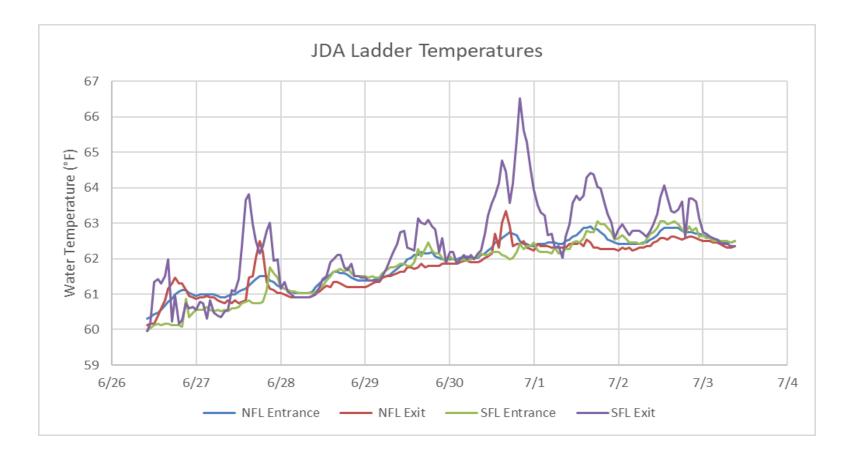
Bird Data:

Cormorants have dispersed. Gull numbers have decreased. Grebe numbers are steady. Pelican numbers are increasing with more foraging in tailrace being observed. Pelicans on Preacher's Island: averaged 230 per day. (see 'Bird Count' tab for details). 5 of 125 avian lines down.

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)
6/27/2022	Unit 4	2.93	68,0,68	164.6
6/27/2022	Unit 12	3.06	68,0,68	164.6
6/30/2022	Unit 4	2.91	68,0,68	164.9
6/30/2022	Unit 12	2.89	68,0,68	164.9
7/2/2022	Unit 4	2.83	68,0,68	162.9
7/2/2022	Unit 12	3.01	68,0,68	162.9

Average Weekly Velocity (ft/sec)	2.94

JOHN DAY WEEKLY AVERAGES

		Sou	uth Fish Lade	der		NFL	JBS	Spill					
	SE1 (Ft)	S.Ent (Ft)	NE1 (Ft)	NE2 (Ft)	Bay19 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Spill Vol. (kcfs)	Spill %	# Spillbays			
Sunday	9.9	1.4	11.9	11.4	1.9	1.4	4.7	170.2	41.5	19			
Sunday	9.7	1.8	11.9	11.5	2.0	1.5	4.6	170.3	41.8	19			
Monday	9.1	1.8	11.0	10.5	1.9	1.6	4.6	176.2	44.4	19			
Monday	9.6	1.4	11.8	11.4	1.7	1.4	4.5	170.2	42.3	19			
Tuesday	9.7	1.2	11.5	11.0	1.8	1.5	4.6	180.1	48.1	19			
Tuesday	9.3	1.2	10.9	10.4	1.8	1.6	4.5	180.1	51.1	19			
Wednesday	9.1	1.6	11.3	10.8	1.6	1.5	4.6	165.0	45.6	19			
Wednesday	10.0	1.2	11.4	10.9	1.5	1.5	4.6	165.2	44.0	19			
Thursday	9.0	1.5	10.8	10.3	1.7	1.6	4.6	165.1	45.3	19			
Thursday	9.4	1.4	10.9	10.5	1.3	1.5	4.5	165.0	45.1	19			
Friday	9.5	1.3	10.9	10.4	1.3	1.5	4.7	122.1	35.6	19			
Friday	9.0	1.5	10.1	9.7	1.5	1.7	4.5	114.1	34.7	19			
Saturday	8.7	1.8	9.8	9.8	1.9	1.5	4.5	98.2	34.7	19			
Saturday	8.6	1.6	9.5	9.5	2.0	1.5	4.5	95.0	30.8	19			
AVG:	9.3	1.5	11.0	10.6	1.7	1.5	4.6	152.6	41.8	19.0			

				Average # of Pelicans on
	Temp (F)	Secchi (Ft)	Fallbacks	Island Per Day
Sunday	60.0	3.5	N/A	150
Monday	60.7	3.5	29	302
Tuesday	60.7	4.0	17	180
Wednesday	61.2	4.0	52	225
Thursday	61.7	4.0	61	230
Friday	61.7	4.0	49	250
Saturday	62.1	4.0	N/A	275
AVG	61.2	3.9	42	230



					Bird Co						7/2/22	_										
		F(1): F	orage	AM su	rvey	F(2):	Fora	ge PM S	Survey	NF	(1): Non	-Forage	e AM S	urvey	N	=(2): No	on-Fora	ige PN	VI Sur	vey		
Date	Zone		G	ulls		Cormorant					Caspian tern				White	e Pelica	an		G	irebe		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)	TOLAT
26-Jun	PHFB	0	0	2	4	0	0	1	1	0	0	0	0	4	0	0	0	16	17	0	0	45
26-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Jun		0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3
26-Jun		0	8	0	0	0	0	0	0	0	0	0	0	41	53	0	0	0	0	0	0	102
26-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Jun		0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
26-Jun		1	9	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	39
Total/S	-	10	_		3)		1		0		0		1		0		. 7		0	101
27-Jun		0	0	0	4	0	0	1	0	0	0	0	0	0	0	0	0	6	16	0	0	27
27-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
27-Jun 27-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Jun 27-Jun	-	0 0	0 0	0 0	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	11 0	18 0	0 0	0 0	0 0	0	0	0	29 0
27-Jun 27-Jun		0	0	0	0	0 0	0	0	0	0	0	-	0	23	0 15	0	0	0	-	0	0	38
27-Jun 27-Jun		0	0	0	0	0	0	0	0	0	0	0 0	0	23 13	6	0	0	0	0	0	0	50 19
Total/S		0	_	-	2	-)		Ŭ	0	0	-	0	-	5	-	0		1	÷	0	59
28-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	0	0	24
28-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
28-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
28-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	SW3	0	5	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	17
Total/S	urvey	3			0	-))		0		0	1	0		0	1	.2		0	25
29-Jun	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10
29-Jun	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	7
29-Jun	PH1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
29-Jun		0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
29-Jun		0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	8
29-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	8
29-Jun		0	7	0	0	0	0	0	0	0	0	0	0	22	11	0	0	0	0	0	0	40
Total/S	urvey	6			1	()	()		0		0	3	2		0		8		0	46

	F(1): Forage AM survey F(2): Forage PM Survey											= -Forage	e AM S	urvey	NF	=(2): No	on-Fora	nge PN	/ Surv	/ey		
Date	Zone			ulls		Cormorant				Caspian tern			White Pelican					-	rebe	I	Total	
20 1		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)	40
30-Jun 30-Jun		6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	0	0	48
30-Jun	-	0 0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
30-Jun		0	0	0	0	-	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	-
30-Jun		0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0	0 0	0	0 0	0 0	0 0	0	0 0
30-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
30-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	20 30	0	0	0	0	0	0	0	30
30-Jun	-	0	0	0	0	0	0	0	0	0	0	0	0	50 50	10	0	0	0	0	0	0	60
Total/S		4	-	Ű)	v	0	Ű)	Ű	0	÷)	50	-	-	0	-	0	-	0	79
-	PHFB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	19	0	0	42
1-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
1-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
1-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
1-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	25	20	0	0	0	0	0	0	45
1-Jul	SW3	0	0	0	0	0	0	0	0	0	0	0	0	75	20	0	0	0	0	0	0	95
Total/S		2)	•	0	()		0	()	8	8	(0	2	0	(0	109
	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	13	0	0	29
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jul		5	0	0	0	0	0	0	0	0	0	0	0	27	11	0	0	0	0	0	0	43
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	33	15	0	0	0	0	0	0	48
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	15	38	0	0	0	0	0	0	53
2-Jul	-	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	26	9	0	0	0	0	0	0	35
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	17	11	0	0	0	0	0	0	28
Total/S	urvey	3)		0	()		0)	10	15		0	1	.5		0	122

JDA Bird Counts: <u>6/30/22</u> to <u>7/2/22</u>

Totals	G	ulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
Totals	F	NF	F	NF	F	NF	F	NF	F	NF	TOtal
Weekly Total	52	11	0	3	0	0	809	0	203	0	539
Avg/Survey	4	1	0	0	0	0	58	0	15	0	77

