FISHWAY STATUS REPORT - JOHN DAY DAM 5/28/2022 Date: JD/WC Project-Fisheries P.O. Box 823 US Army Corps Inspection Period: 5/22/2022 thru 5/28/2022 Rufus, Oregon 97050 of Engineers Portland District 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. Inspection Criteria **Temperature:** 54.5 F John Day Dam **Total Number of Inspections: 14** 000 Limit 4.0 Ft. Secchi: **NORTH FISHWAY** ≤ 0.5' Exit differential 0 Exit Control weirs 0 High setting Count station differential 0 ≤ 0.3' Entrance differential AVG (Ft.) 1.0' - 2.0' 0 1.6 **SOUTH FISHWAY** ≤ 0.5' Exit differential 0 0 Exit Control weirs Mid setting Count station differential 0 ≤ 0.3' 0 Weir crest depth (US gauge) $1.0' \pm 0.1'$ South entrance differential 0 1.0' - 2.0' AVG (Ft.) 1.5 Entrance weir SE1 0 AVG (Ft.) 9.5 depth ($\geq 8'$) Collection channel velocity 0 1.5 - 4 fps AVG (Ft.) 2.92 N. Entrance PH(Bay 19)differential 1 1.0' - 2.0' AVG (Ft.) 1.7 Entrance weir NE1 0 depth ($\geq 8'$) AVG (Ft.) 10.4 Entrance weir NE2 0 depth ($\geq 8'$) AVG (Ft.) 10.2 **JUVENILE PASSAGE** Forebay/bypass conduit differential 4.0' - 5.0' AVG (Ft.) 4.5 0 next visual inspection 5/23 - 5/26 Submersible traveling screens 0 visual inspect Turbine trashrack drawdown 0 <1.5', wkly Vert barrier screen drawdown 0 <1.5'. wklv Spill volume 0 per FPP Avg % 72.0 Avg (kcfs) 200.4 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. 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, MU 10, and MU15. 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: 123

Maintenance:

South fish turbine #2 was forced out of service on 30 March with an excessive vibration issue. Pumps 1 & 3 are running. MU 15 was FOOS on 14 May.

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

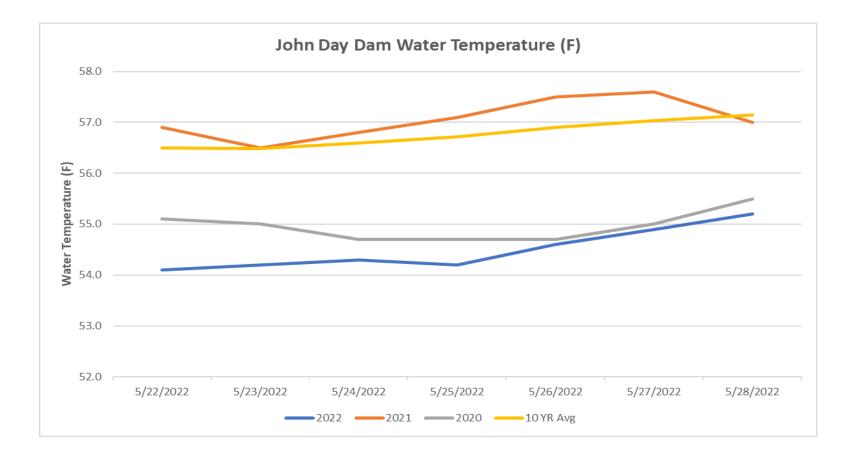
Cormorants have dispersed. Gull numbers continue to increase with more foraging observed in the tailrace. Pelican numbers starting to incease on Preacher's Island, with a few seen foraging in the tailrace. Grebe numbers are decreasing slightly, mainly in PHFB. (see 'Bird Count' tab for details).

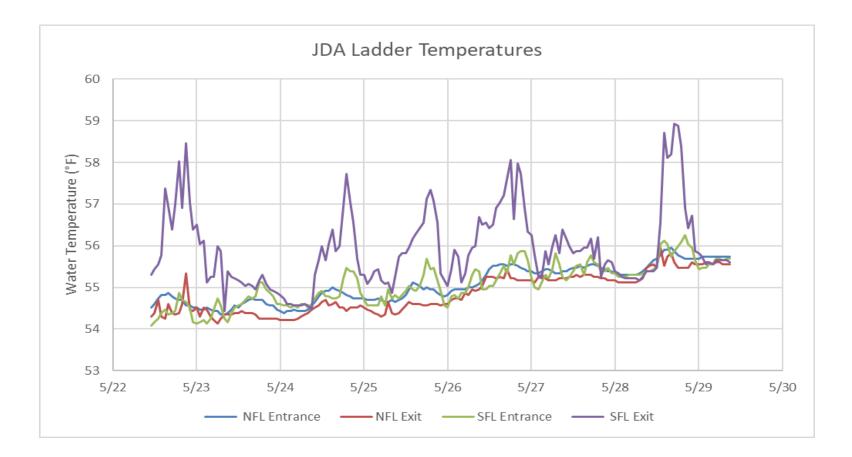
2 of 125 avian lines down.

Pelicans on Preacher's Island: averaged 32 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)
5/23/2022	Unit 4	2.85	68,0,68	161.1
5/23/2022	Unit 12	2.90	68,0,68	161.1
5/25/2022	Unit 4	2.78	68,0,68	161.0
5/25/2022	Unit 12	2.82	68,0,68	161.0
5/28/2022	Unit 4	2.98	68,0,68	162.2
5/28/2022	Unit 12	3.22	68,0,68	162.2

Average Weekly Velocity (ft/sec)	2.92

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	12.1	11.9	1.4	11.6	1.4	4.6	2.3	88.1	32.5	19
Sunday	9.7	9.6	1.6	8.7	1.4	4.5	1.7	222.0	75.2	19
Monday	10.1	9.8	1.4	9.6	1.5	4.2	1.9	199.6	79.2	19
Monday	9.5	9.6	1.6	9.0	1.6	4.6	1.9	200.2	79.1	19
Tuesday	11.4	11.1	1.3	10.3	1.5	4.6	1.3	208.3	78.4	19
Tuesday	9.8	9.5	1.4	9.1	1.3	4.5	1.6			
Wednesday	11.6	11.3	1.1	11.0	1.5	4.2	1.6	86.1	32.0	19
Wednesday	10.4	10.3	1.4	9.8	1.5	4.7	1.5	227.0	77.8	19
Thursday	9.9	9.6	1.5	9.0	1.6	4.2	1.7	227.1	80.8	19
Thursday	9.1	8.8	1.7	8.3	1.5	4.6	1.5	226.8	81.1	19
Friday	10.7	10.4	1.6	9.4	1.8	4.5	1.5	229.9	82.0	19
Friday	10.1	9.8	1.4	8.9	1.7	4.6	1.5	230.0	81.0	19
Saturday	10.1	9.8	1.5	9.0	1.9	4.6	1.9	230.0	81.7	19
Saturday	10.9	10.7	1.4	9.9	1.5	4.2	1.4	230.1	74.6	19
AVG:	10.4	10.2	1.5	9.5	1.6	4.5	1.7	200.4	72.0	19.0

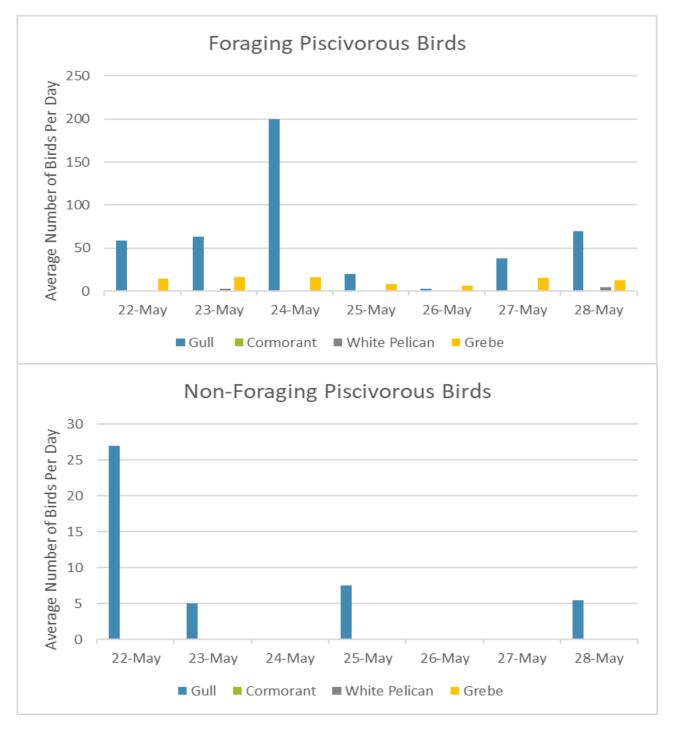
	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	54.1	4.5	N/A	20
Monday	54.2	4.5	2	41
Tuesday	54.3	4.0	7	24
Wednesday	54.2	3.5	3	25
Thursday	54.6	3.5	0	30
Friday	54.9	4.0	4	61
Saturday	55.2	4.0	N/A	22
AVG	54.5	4.0	3	32



				JDA E	Bird Co	ount	s:	<u>5/2</u> 2	2/22	<u>to</u>	5/28/2	22										
		F(1): F	orage	AM su	rvey	F(2):	Fora	ge PM :	Survey	NF	(1): Non	-Forage	e AM S	urvey	NF	-(2): No	on-Fora	ige PN	/I Sur	vey		
			G	ulls			Cor	morant			Casnia	n tern			White	e Pelica	n	Grebe				
Date	Zone	F(1)	F(2)	NF(1)	NF(2)	F(1) F(2) NF(1) NF(2)			F(1)				F(1)				F(1) F(2) NF(1)			NF(2)	Total	
22-May	PHFB	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	22	7	0	0	53
22-May	SWFB	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
22-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH3	4	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	8
22-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW2	7	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
22-May	SW3	51	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Total/S		59	9	2	7	C)		0		0		0		2		0	1	.5		0	102
23-May		0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	0	0	34
23-May	SWFB	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
23-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
23-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		21	16	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	39
23-May		33	42	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	79
Total/S		64			5	()	(0		0	(0	-	3		0	1	.6		0	88
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	15	0	0	33
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		11	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
24-May		72	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		19	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
24-May		68	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Total/S		20			0	(0	(_		0		0		.7		0	217
25-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	17
25-May		0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
25-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
25-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May		32	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Total/S	urvey	20	J		8	()				0		0		0		0		9		0	36

				-	Bird Co					<u>to</u>	5/28/2											
		F(1): F	orage	AM su	rvey	F(2):	Fora	ge PM S	Survey	NF	(1): Non	-Forage	e AM Si	urvey	N	=(2): No	on-Fora	ige PN	Λ Surv	/еу		
	_	Gulls					Cor	morant			Caspian tern			White Pelican				Grebe				
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
26-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	13
26-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total/S		3)))		0		0)		0		7		0	9
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	16	0	0	31
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
27-May Total/S		41 3	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 .6	0	0	72 54
28-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	25
28-May		0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	25 0	0	0	0	25 11
28-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
28-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May		9	17	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	32
28-May		63	47	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	113
Total/S		7	0	(5	()	(0		D		5	(0	1	.3	(D	92

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	905	90	0	0	0	0	19	0	180	0	597
Avg/Survey	65	6	0	0	0	0	1	0	13	0	85





JDF participated in a CAP flight on 5/24 to monitor avain colonies in the Columbia River.