FISHWAY STATUS REPORT - JOHN DAY DAM Date: 12/17/2022 JD/WC Project-Fisheries P.O. Box 823 US Army Corps of Engineers Portland District Inspection Period: 12/11/2022 thru 12/17/2022 Rufus, Oregon 97050 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:** 43.0 F John Day Dam Total Number of Inspections: 7 000 Limit Secchi: 6.0 Ft. **NORTH FISHWAY** ≤ 0.5' Exit differential 0 0 Exit Control weirs High setting Count station differential 0 ≤ 0.3' Entrance differential AVG (Ft.) #DIV/0! 0 1.0' - 2.0' **SOUTH FISHWAY** Exit differential ≤ 0.5' 0 Exit Control weirs 0 Mid setting Count station differential 0 ≤ 0.3' 0 $1.0' \pm 0.1'$ Weir crest depth (US gauge) AVG (Ft.) South entrance differential 0 1.0' - 2.0' 1.3 AVG (Ft.) Entrance weir SE1 1 depth ($\geq 8'$) 9.0 Extremely low tw - weirs were at lower limit Collection channel velocity 0 2.44 1.5 - 4 fps AVG (Ft.) N. Entrance PH(Bay 19)differential 0 1.0' - 2.0' AVG (Ft.) 1.6 Entrance weir NE1 AVG (Ft.) 8.8 2 depth ($\geq 8'$) Extremely low tw - weirs were at lower limit Entrance weir NE2 2 depth ($\geq 8'$) AVG (Ft.) 8.7 Extremely low tw - weirs were at lower limit **JUVENILE PASSAGE** 4.0' - 5.0' AVG (Ft.) Forebay/bypass conduit differential 1 4.2 Sensor was OOC repaired that day STS being removed 12/12 Submersible traveling screens 0 visual inspect Turbine trashrack drawdown 0 <1.5', wkly Vert barrier screen drawdown 0 <1.2', wkly 0 Spill volume per FPP Avg (kcfs) 14.4 Avg % 0 Spill pattern per FPP Turbine Unit Priority 0 per FPP Turbine 1% Efficiency 0 per FPP

Fisheries Related Operations

Smolt Monitoring Operations:

SMF was dewatered on 12/7

Adult Ladder Operations:

SFL is running in criteria, the NFL was placed on orifice flow Nov 29th, and dewatered on December 1st (see 22JDA16) for winter maintance

Project Operations:

Current outages: Line 1 (MU1-4 ETR-12/22/22) MU3 (ETR: 2/20/23) MU4 (ETR: 11/2/23), MU7 (ETR: 7/31/28), MU8 (ETR: 2/16/23), MU10 (ETR: 3/30/23) MU13 (ETR: 3/23/23) 3/30/23) MU13 (ETR: 3/23/23) Spill Season ended on November 29th at JDA

Maintenance:

NFL down for Winter Maintenance

Calibration:

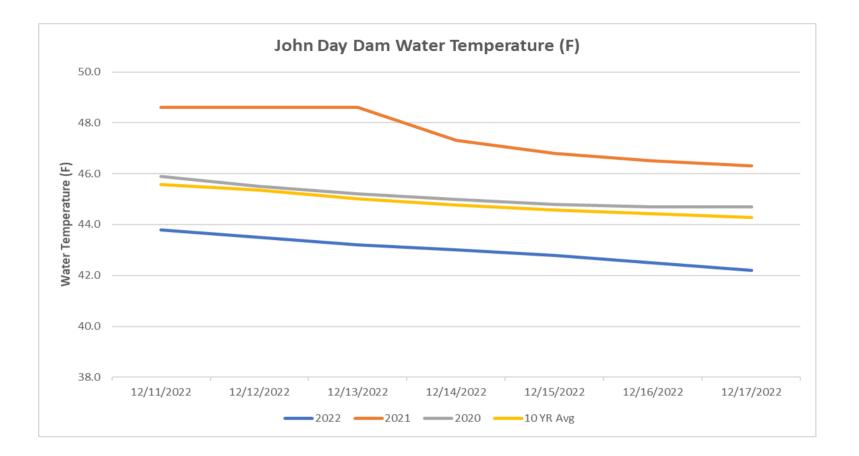
All gauges within the 0.3' criteria.

Bird Data:

Gull and Cormorant numbers are holding steady, and Grebe numbers are decreasing. 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. No bird counts are currently being counducted on Saturdays and Sundays.

Research:

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



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)
12/12/2022	Unit 4	2.46	0,68,68	159.0
12/12/2022	Unit 12	2.55	0,68,68	159.0
12/14/2022	Unit 4	2.49	0,68,68	157.5
12/14/2022	Unit 12	2.41	0,68,68	157.5
12/16/2022	Unit 4	2.32	0,68,68	160.0
12/16/2022	Unit 12	2.39	0,68,68	160.0

Average Weekly Velocity (ft/sec)	2.44

JOHN DAY WEEKLY AVERAGES

		So	uth Fish Lad	der		NFL	JBS	Spil	
	SE1 (Ft)	S.Ent (Ft)	NE1 (Ft)	NE2 (Ft)	Bay19 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Spill Vol. (kcfs)	# Spillbays
Sunday	9.8	1.0	9.3	9.5	1.6	Х	Х	Х	Х
Monday	8.2	1.5	8.1	8.4	1.7	Х	4.1	Х	Х
Tuesday	8.0	1.4	7.4	7.2	1.8	Х	3.8	Х	Х
Wednesday	7.9	1.5	7.5	7.3	1.5	Х	4.1	20.1	4
Thursday	10.1	1.2	9.4	9.2	1.7	Х	4.6	8.6	1
Friday	10.4	1.0	9.9	9.7	1.4	Х	4.5	Х	Х
Saturday	8.9	1.2	9.9	9.7	1.7	Х	4.0	Х	Х
AVG:	9.0	1.3	8.8	8.7	1.6	#DIV/0!	4.2	14.4	2.5

	Temp (F)	Secchi (Ft)	Notes
Sunday	43.8	6.0	X: Winter Maintenance
Monday	43.5	6.0	
Tuesday	43.2	6.0	Entrance weir OOCs due to very low tailwater levels,
Wednesday	43.0	6.0	weirs were put in manual and set to lower limit. They
Thursday	42.8	6.0	were still OOC
Friday	42.5	6.0	
Saturday	42.2	6.0	JBS OOC due to a conduit sensor failure. The tainter gate
			was being run in manual mode. The issue was resolved
AVG	43.0	6.0	that day



				JDA E	Bird C	oun	ts:	12	/11/2	22	to	<u>12</u>	/17/2	22								
	F(1):	Forage A	M sur	vey	F(2): F	orage	e PM	Survey	NF	(1): N	lon-F	orage A	AM Su	rvey	NF(2): No	on-Fora	age Pl	M Sur	vey		
						-																
Date	Zone		Gul		1			moran	-			pian ter	-			Pelica			-	rebe	1	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)		F(1)	F(2)	NF(1)	NF(2)	
11-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Dec	-	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 0
11-Dec Total/Su		0	0	0	-	-	0	-	0	0	0	0	-	0	0	-	0	-	0	-	0	0
12-Dec			0				-			0	0	0	0	0			-			0		256
12-Dec 12-Dec		0 0	0	250 0	0 0	2 0	0 0	0 0	0 0	0	0	0	0	0	0 0	0 0	0 0	4 0	0	0	0 0	250
12-Dec 12-Dec	-	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-Dec 12-Dec		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12 Dec 12-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Dec 12-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Dec 12-Dec	-	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	69
12-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Su		4		25	50		2	(i9	()	0		()	(0		4	(0	329
13-Dec	PHFB	0	0	1	0	0	0	29	0	0	0	0	0	0	0	0	0	3	0	0	0	33
13-Dec	SWFB	0	0	97	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
13-Dec	PH1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
13-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Dec	SW2	0	0	0	0	0	0	23	0	0	0	0	0	2	0	0	0	0	0	0	0	25
13-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Total/Su	rvey	0		9	8		6		52	•	0	0		-	5		0		3	(0	164
14-Dec	PHFB	0	0	0	0	2	0	30	0	0	0	0	0	0	0	0	0	3	0	0	0	35
14-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Dec	-	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52
14-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Su	rvey	0		(J		2		52)	0		(J		0		3		0	87

	F(1):	JDA Bird Counts: $\frac{12/11/22}{10}$ to $\frac{12/17/22}{10}$																				
	F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey															(2): No	on-Fora	age Pl	M Sur	vey		
			Gul	ls			Corr	moran	t		Casr	ian ter	'n	V	White	Pelica	an		Gr	ebe		
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
15-Dec	PHFB	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	3	0	0	0	20
15-Dec	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Dec	PH1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
15-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Dec	SW2	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50
15-Dec	SW3	0	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total/Sur	vey	3		1	L		1	7	/4		0	0		()		0		3	(0	82
16-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
16-Dec		0	0	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
16-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	–	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	-	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
16-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Sur		0		16			0		85		0	0		(0		4		0	202
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec 17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec 17-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec 17-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec 17-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Sur		0	Ŭ	0		-	0	-	0	-	0	0	-	0	-	-	0	-	0	-	0	0

Totals	Gul	lls	Cor	morant	Casp	oian tern	White	Pelican	Gr	ebe	Total
	F	NF	F	NF	F	NF	F	NF	F	NF	Total
Weekly Total	7	512	11	312	0	0	5	0	17	0	864
Avg/Survey	1	102	2	62	0	0	1	0	3	0	173

