FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 4/2/2022

Inspection Period: 3/27/2022 thru 4/2/2022

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.



JD/WC Project-Fisheries

P.O. Box 823

Rufus, Oregon 97050 Phone: 541-506-7860

John Day Dam	Inspection OOC	Criteria Limit		Total Number of	Inspections:	14	Te	emperature: Secchi:	45.2 5.4				
	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′					T						
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.)	8.9									
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.55									
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.7									
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.7									
Entrance weir NE2	0	depth (≥ 8′)	AVG (Ft.)	9.6									
			JU	VENILE PASS	AGE								
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.5									
Submersible traveling screens	0	visual inspect	_							-			
Turbine trashrack drawdown	0	<1.5', wkly											
Vert barrier screen drawdown	0	<1.5', wkly											
Spill volume	0	per FPP	Avg (kcfs)	0.0	Avg %	0.0							
Spill pattern	0	per FPP											
Turbine Unit Priority	urbine Unit Priority 0												
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, MU12.

Spring spill starts April 10 along with the Caspian tern forebaby operation for the Blalock islands.

USDA avian hazing will starting 15 April

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:

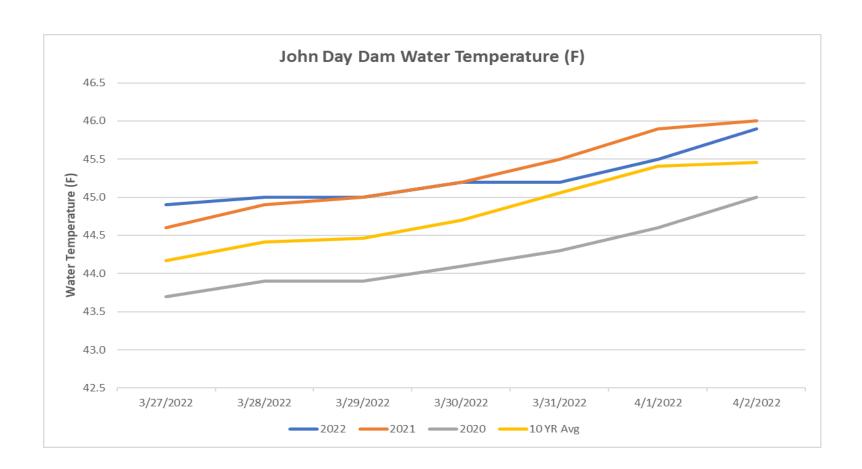
Cormorant numbers are steady around 30, mainly roosting on rocks in SW2. Gull numbers minimal. A pelican seen occasionaly resting on Preacher's Island or PH3. Small number of grebes have returned to PHFB. (see 'Bird Count' tab for details).

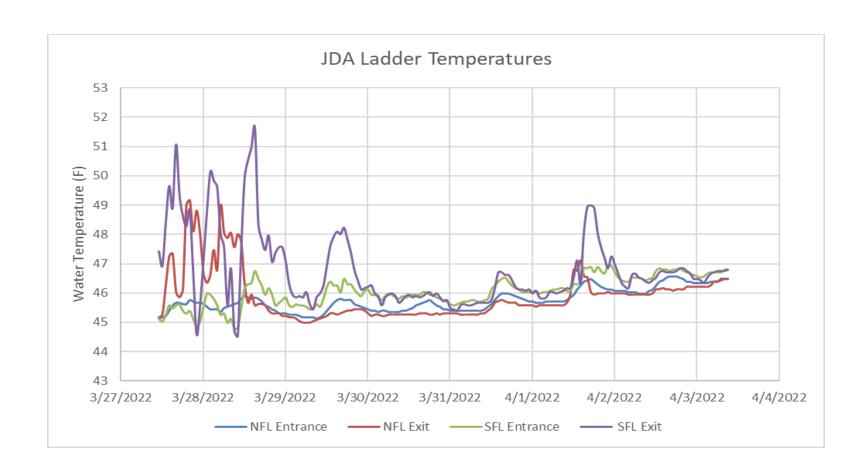
1 of 125 avian lines down. The 7 lines that were broken by the BPA line repair were replaced on 3/29. USDA hazing starts 4/16.

Pelicans on Preacher's Island: averaged 0 per day

Research:

Adult fish counting will 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)
3/29/2022	Unit 4	2.59	0,68,68	160.8
3/29/2022	Unit 12	2.69	0,68,68	160.8
3/31/2022	Unit 4	2.45	68,0,68	160.5
3/31/2022	Unit 12	2.48	68,0,68	160.5
4/2/2022	Unit 4	2.51	68,0,68	160.8
4/2/2022	Unit 12	2.59	68,0,68	160.8

Average Weekly Velocity (ft/sec)	2.55

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	9.4	9.3	1.6	8.6	1.5		1.7	0.0	0.0	0
Sunday	9.3	9.3	1.4	8.6	1.6		1.6	0.0	0.0	0
Monday	9.3	9.2	1.4	8.7	1.4		1.8	0.0	0.0	0
Monday	9.3	9.2	1.5	8.5	1.6		1.7	0.0	0.0	0
Tuesday	9.7	9.6	1.3	9.0	1.5	4.6	1.7	0.0	0.0	0
Tuesday	10.1	9.9	1.1	9.5	1.5	4.6	1.7	0.0	0.0	0
Wednesday	10.0	9.9	1.4	8.9	1.4	4.3	1.8	0.0	0.0	0
Wednesday	9.9	9.9	1.3	9.0	1.4	4.5	1.5	0.0	0.0	0
Thursday	10.3	10.2	1.3	9.5	1.5	4.5	1.6	0.0	0.0	0
Thursday	9.2	9.2	1.2	8.4	1.7	4.5	1.8	0.0	0.0	0
Friday	9.7	9.5	1.4	8.7	1.6	4.4	1.6	0.0	0.0	0
Friday	9.8	9.7	1.3	8.9	1.5	4.6	1.6	0.0	0.0	0
Saturday	10.1	10.0	1.2	9.4	1.5	4.6	1.6	0.0	0.0	0
Saturday	9.5	9.5	1.3	8.8	1.5	4.6	1.7	0.0	0.0	0
AVG:	9.7	9.6	1.3	8.9	1.5	4.5	1.7	0.0	0.0	0.0

	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	44.9	5.5	N/A	0
Monday	45.0	5.5	N/A	0
Tuesday	45.0	5.5	N/A	1
Wednesday	45.2	5.0	N/A	0
Thursday	45.2	5.0	N/A	0
Friday	45.5	5.5	N/A	0
Saturday	45.9	5.5	N/A	0
41/6			21.6	
AVG	45.2	5.4	N/A	0



JDA Bird Counts: <u>3/27/22</u> to <u>4/2/22</u>

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

Date	Zone		G	ulls			Corı	morant			Caspia	n tern			White	e Pelica	an		G	rebe		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)	TOtal
27-Mar	PHFB	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	9	0	0	0	32
27-Mar	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Mar	SW2	0	0	0	0	0	0	14	29	0	0	0	0	0	0	0	0	0	0	0	0	43
27-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/S	urvey	0		(0	()	3	3		0	()		0		0		5	()	38
28-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	0	0	11
28-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Mar	-	0	0	0	0	0	0	22	26	0	0	0	0	0	0	0	0	0	0	0	0	48
28-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/S	_	0			0)		4		0)		0		0		6)	30
29-Mar		0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	9	4	0	0	16
29-Mar	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Mar		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
29-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Mar	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Mar	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Mar	-	0	0	0	0	0	0	16	22	0	0	0	0	0	0	0	0	0	0	0	0	38
29-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Total/S	_	0			1	0		2		-	0	0		0			0		, , , , , , , , , , , , , , , , , , ,)	29
30-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Mar		0	0 0	0	0 0	0	0	17 0	16 0	0	0 0	0	0 0	0	0	0	0	0	0	0	0 0	33
30-Mar		0			0	0				U	0	U	U	0		_	0		0		0	17
Total/S	urvey	U			U	•	J	1			U		,		U		U		U		J	17

JDA Bird Counts: 3/31/22 to 4/2/22

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

Date	Zone		G	ulls			Corı	morant			Caspia	n tern		,	White	Pelica	ın		G	rebe		Total
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)	TOLAI
31-Mar	PHFB	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	6	10	0	0	20
31-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Mar	SW1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
31-Mar	SW2	0	0	0	0	0	0	7	27	0	0	0	0	0	0	0	0	0	0	0	0	34
31-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/S	,	1			2	()	1	7		0		0	()	()	-	8	()	28
	PHFB	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	8	8	0	0	27
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Apr		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1-Apr	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Apr	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Apr	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Apr		0	0	0	0	0	0	3	16	0	0	0	0	0	0	0	0	0	0	0	0	19
1-Apr	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	0			0	1	1	1	5		0		0	()	()	-	8)	24
2-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	0	0	12
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Apr	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Apr		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2-Apr	SW2	0	0	0	2	0	0	21	31	0	0	0	0	0	1	0	0	0	0	0	0	55
2-Apr	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	0		:	1	1	1	2	6		0		0	1	L	(Ò		6)	35

Totals	G	ulls	Cori	morant	Caspia	n tern	White	e Pelican	G	Total	
iotais	F NF F N		NF	F	NF	F	NF	F NF		Total	
Weekly Total	2	7	7	303	0	0	1	0	77	0	199
Avg/Survey	0	1	1	22	0	0	0	0	6	0	28

