

FISHWAY STATUS REPORT

Date: 11/11/2017
 Inspection Period: 11/5/2017 thru 11/11/2017



US Army Corps
 of Engineers
 Portland District

JOHN DAY DAM

JD/WC Project-Fisheries
 P.O. Box 823
 Rufus, Oregon 97050
 Phone: 541-506-7860

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	54 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps available since 1/19/17.			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	High setting	High setting is normal for JDN			
Count station differential	0	≤ 0.3'				
Weir crest depth (DS gauge)	0	1.0' ± 0.1'				
Entrance differential	0	1.0' - 2.0'	AVG	1.5		
SOUTH FISHWAY			In service since 3/3/17 with 2 out of 3 AWS turbines available.			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS			
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	1.4		
Entrance weir SE1	0	depth (≥ 8')	AVG	9.0		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.35		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.5		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.9		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.7		
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	STS camera inspection completed 10/19. All STSs found undamaged in good working condition.			
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack Crane in service since 6/01.			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.			
Spill pattern	0	per FPP	Bay 2 only.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF sampling concluded for the 2017 season on 15 September. SMF continues in bypass at Switch Gate for PIT detections through 30 November.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: None

Birds :

see the Avian Numbers tab.

6 Tower-to-Tower, 6 Spillway, 6 Navlock (2 failed on 11/02) and 7 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway in service with all 6 AWS pumps available and meeting all FPP criteria since 1/19/17.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational condition until it's replaced with a brand new machine. However, the \$ 5 million for its replacement is not yet available.

Calibration: All gauges/ sensors are within the criteria of 0.3' .

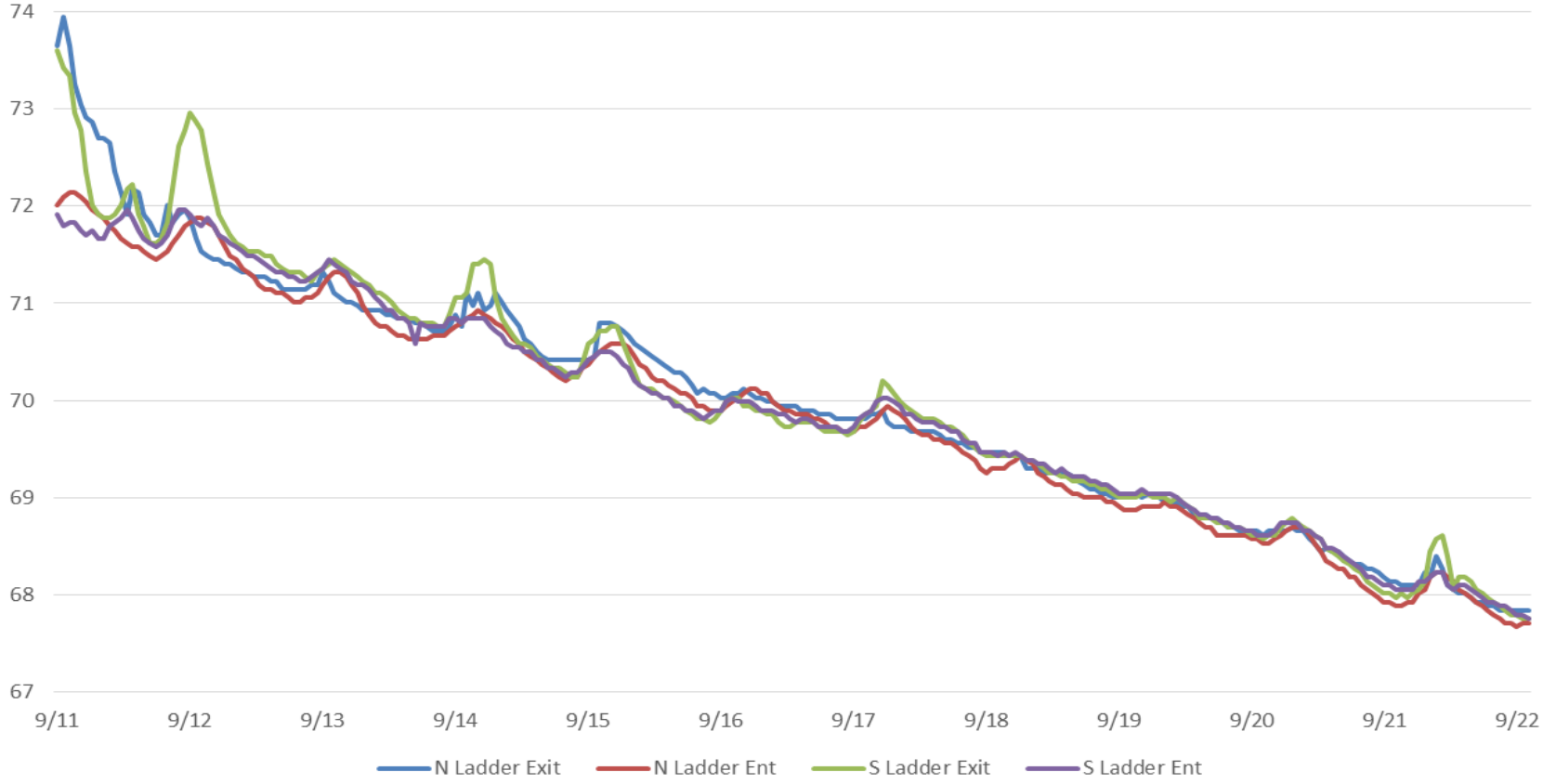
Research:

WDFW angling crew ended the pikeminnow removal from JD PH tailrace on 10/08. Great annual catch of 3,472 NPM in 2017.

Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources. Phase 2 support contract to install building/ office spaces plus electrical and Gorgenet hookups completed by 10/14/17. PSMFC crew continues with Wi-Fi installation.

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E-Signed by MOYNAHAN, KEVIN, PATRICK, 1393959157
VERIFY authenticity with ApproveIt

Fishladder Water Temps JDA (9/11/17 - 9/22/17)



JDA Collection Channel Velocity

Date 18-Oct-17

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:20	80	2.25
2 - 4	2:39	159	2.28
4 - 6	4:00	240	2.22
6 - 8	5:27	327	2.07
8 - 10	6:40	400	2.47
10 - 12	7:54	474	2.43
12 - 14	9:10	550	2.37
14 - 16	10:22	622	2.50
16 - 18	11:32	692	2.57
			2.35

TW Bay19 = 159.5

RPMs: 68/68 (2&3) (1 @ 0)

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	55	6.0	NA
Mon	55	6.0	NA
Tue	54	6.0	NA
Wed	54	6.0	NA
Thur	54	6.0	NA
Fri	53	6.0	NA
Sat	53	6.0	NA
AVG:	54	6.0	NA
			MAX NA
			MIN NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.6	9.4	1.5	8.5	1.4	4.6	1.5
Sun	10.1	9.9	1.4	8.9	1.4	4.6	1.5
Mon	9.5	9.3	1.5	8.4	1.5	4.6	1.5
Mon	9.7	9.5	1.4	8.7	1.4	4.6	1.6
Tues	9.9	9.7	1.2	9.0	1.4	4.5	1.5
Tues	10.1	9.9	1.3	9.0	1.4	4.6	1.4
Wed	10.1	9.9	1.3	9.0	1.6	4.6	1.4
Wed	10.5	10.3	1.4	9.6	1.4	4.6	1.6
Thur	10.0	9.8	1.4	9.0	1.5	4.6	1.6
Thur	9.9	9.7	1.3	9.0	1.5	4.6	1.6
Fri	10.0	9.8	1.3	8.8	1.5	4.6	1.6
Fri	9.6	9.4	1.4	10.0	1.5	4.6	1.6
Sat	9.9	9.7	1.4	9.0	1.5	4.5	1.6
Sat	10.0	9.8	1.4	9.0	1.6	4.5	1.5
AVG:	9.9	9.7	1.4	9.0	1.5	4.6	1.5

JDA Bird Counts: ### to ###

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

Date	Zone	Gulls		Cormorant				Caspian tern				White Pelican				Grebe				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)	
5-Nov	PHFB	0	0	77	700	0	0	2	1	0	0	0	0	0	0	0	0	40	4	40	3	867	
5-Nov	SWFB	0	0	444	444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	888
5-Nov	PH1	9	170	0	165	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
5-Nov	PH2	15	50	14	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
5-Nov	PH3	0	10	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
5-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov	SW2	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
avg/Survey		127	950	4	2	0	0	0	0	0	0	0	0	0	0	0	22	22					2252
6-Nov	PHFB	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	49	0	48	0	147		
6-Nov	SWFB	0	0	1111	1111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2222
6-Nov	PH1	4	15	0	50	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
6-Nov	PH2	15	25	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
6-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Nov	SW1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6-Nov	SW2	0	0	0	0	0	15	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
6-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
avg/Survey		30	1166	11	4	0	0	0	0	0	0	0	0	0	0	0	25	24					2516
7-Nov	PHFB	0	0	89	65	0	0	7	0	0	0	0	0	0	0	0	31	0	89	48	329		
7-Nov	SWFB	0	0	655	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	867
7-Nov	PH1	167	256	31	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	463
7-Nov	PH2	42	86	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
7-Nov	PH3	8	6	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	67
7-Nov	SW1	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
7-Nov	SW2	0	0	0	0	0	0	46	44	0	0	0	0	0	0	0	0	0	0	0	0	0	90
7-Nov	SW3	5	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
avg/Survey		285	537	2	103	0	0	0	0	0	0	0	0	0	0	0	16	69					2020
8-Nov	PHFB	0	0	67	700	0	0	24	1	0	0	0	0	0	0	0	0	4	52	3	851		
8-Nov	SWFB	0	0	499	444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	943
8-Nov	PH1	112	170	0	165	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	450
8-Nov	PH2	115	50	0	45	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
8-Nov	PH3	13	10	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
8-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Nov	SW2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8-Nov	SW3	2	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
avg/Survey		236	966	3	18	0	0	0	0	0	0	0	0	0	0	0	2	28					2502

JDA Bird Counts: ### to ###

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

Date	Zone	Gulls		Cormorant				Caspian tern				White Pelican				Grebe				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)	
9-Nov	PHFB	0	0	77	551	0	0	2	0	0	0	0	0	0	0	0	0	40	0	40	38	748	
9-Nov	SWFB	0	0	444	426	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	870
9-Nov	PH1	9	177	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194
9-Nov	PH2	15	18	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
9-Nov	PH3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Nov	SW2	0	0	0	0	6	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	42
9-Nov	SW3	0	8	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	37
avg/Survey		115		756		7		34		0		0		0		0		20		39		1940	
10-Nov	PHFB	0	0	39	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	22	27	120	
10-Nov	SWFB	0	0	681	721	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1402
10-Nov	PH1	157	52	48	33	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299
10-Nov	PH2	94	20	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
10-Nov	PH3	22	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
10-Nov	SW1	0	0	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
10-Nov	SW2	0	0	0	0	0	0	4	44	0	0	0	0	0	0	0	0	0	0	0	0	0	48
10-Nov	SW3	8	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
avg/Survey		179		766		8		57		0		0		0		0		0		25		2067	
11-Nov	PHFB	0	0	16	6	0	0	24	0	0	0	0	0	0	0	0	0	0	0	15	16	77	
11-Nov	SWFB	0	0	555	621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1176
11-Nov	PH1	104	104	28	42	10	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	295
11-Nov	PH2	141	120	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
11-Nov	PH3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11-Nov	SW1	0	0	5	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
11-Nov	SW2	0	0	0	0	0	0	27	44	0	0	0	0	0	0	0	0	0	0	0	0	0	71
11-Nov	SW3	0	2	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
avg/Survey		237		646		10		56		0		0		0		0		0		16		1929	
Totals		Gulls		Cormorant				Caspian tern				White Pelican				Grebe				Total			
		F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF				
Weekly Total		###	####	86	543	0	0	0	0	168	441			15226									
avg/Survey		173	827	6	39	0	0	0	0	12	32			1088									