


FISHWAY STATUS REPORT

Date: 11/18/2017
 Inspection Period: 11/12/2017 thru 11/18/2017



**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: 52 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 1.3	
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 1.6	
Entrance weir NE1	0	depth (≥ 8')	AVG 10.0	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.8	
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 is scheduled for the next week starting 11/20.	
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 27 November.

End-of-season dewatering is scheduled for 27 November.

Maintenance:

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

Research: None

Birds :

A large number of the overwintering, migratory gulls and other aquatic birds feeding extensively on the abundant juvenile shad in the PH Tailrace BRZ. 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' .

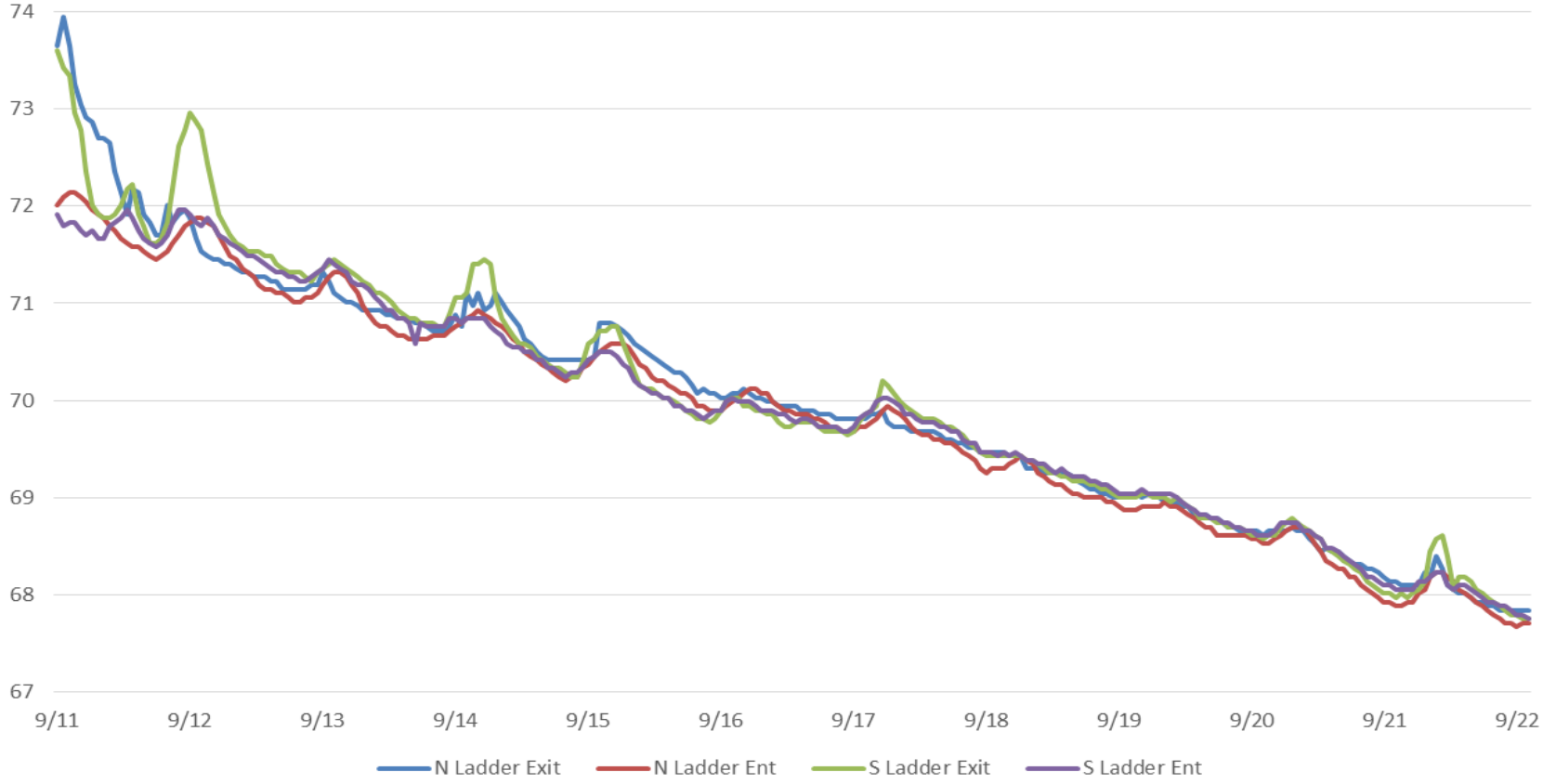
Research:

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	53	6.0	NA
Mon	52	6.0	NA
Tue	52	6.0	NA
Wed	52	6.0	NA
Thur	51	6.0	NA
Fri	51	6.0	NA
Sat	50	6.0	NA
AVG:	52	AVG: 6.0	AVG: NA
			MAX: NA
			MIN: NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.0	9.8	1.3	8.9	1.5	4.6	1.4
Sun	10.2	10.0	1.2	9.3	1.5	4.6	1.6
Mon	9.7	9.5	1.3	8.9	1.6	4.6	1.7
Mon	9.8	9.6	1.5	8.7	1.5	4.5	1.6
Tues	10.0	9.7	1.3	8.7	1.5	4.6	1.5
Tues	9.5	9.2	1.4	8.4	1.7	4.6	1.5
Wed	10.0	9.7	1.2	9.0	1.5	4.6	1.5
Wed	10.0	9.8	1.2	8.8	1.6	4.5	1.6
Thur	10.2	9.9	1.3	9.1	1.4	4.5	1.6
Thur	10.4	10.1	1.2	9.2	1.4	4.6	1.7
Fri	10.1	9.8	1.3	9.1	1.5	4.6	1.5
Fri	10.1	9.8	1.3	9.2	1.5	4.6	1.6
Sat	10.4	10.1	1.2	9.4	1.4	4.6	1.5
Sat	10.1	9.8	1.3	9.2	1.5	4.6	1.6
AVG:	10.0	9.8	1.3	9.0	1.5	4.6	1.6

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	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	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	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						
Weekly Total		###		####		86		543		0		0		0		0		168		441			15226
avg/Survey		173		827		6		39		0		0		0		0		12		32			1088