


FISHWAY STATUS REPORT

Date: 11/4/2017
Inspection Period: 10/29/2017 thru 11/4/2017



**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: 56 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 8.7	
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 9.5	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.2	
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' .

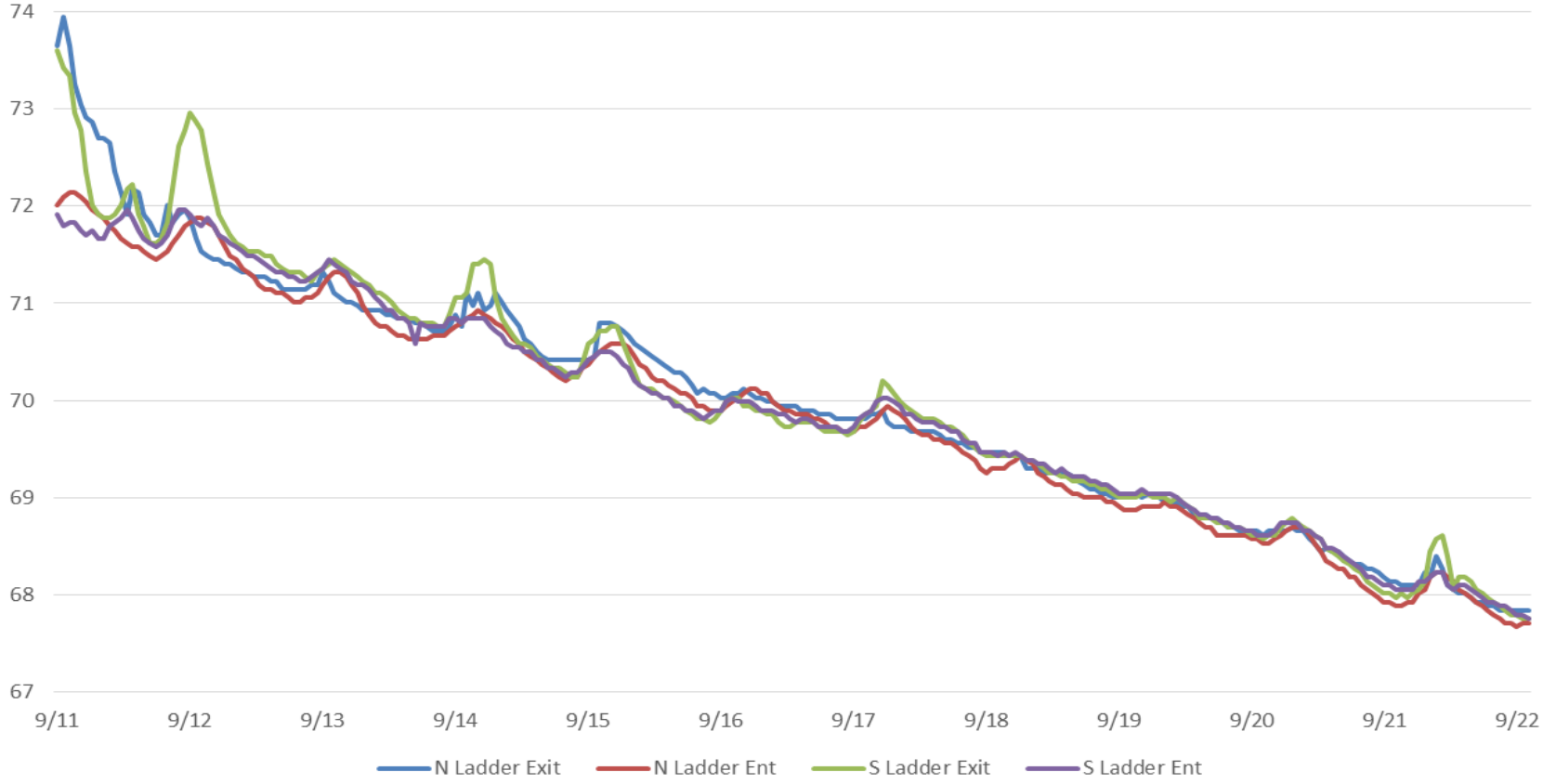
Research:

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.

MOYNAHAN, KEVIN, PATRICK, 1393959157
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	57	6.0	NA
Mon	57	6.0	NA
Tue	56	6.0	NA
Wed	56	6.0	NA
Thur	56	6.0	NA
Fri	55	6.0	NA
Sat	55	6.0	NA
AVG:	56	6.0	AVG: NA
			MAX: NA
			MIN: NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.3	9.0	1.3	8.7	1.5	4.6	1.5
Sun	9.2	8.9	1.4	8.4	1.6	4.6	1.4
Mon	9.2	8.9	1.4	8.7	1.5	4.6	1.7
Mon	8.9	8.6	1.5	8.3	1.6	4.6	1.7
Tues	9.7	9.7	1.4	8.7	1.5	4.6	1.6
Tues	9.4	9.1	1.4	8.3	1.6	4.6	1.5
Wed	9.4	9.1	1.3	8.4	1.7	4.6	1.6
Wed	9.5	9.2	1.5	9.3	1.5	4.7	1.6
Thur	9.7	9.5	1.4	8.7	1.4	4.6	1.4
Thur	9.6	9.4	1.4	9.5	1.6	4.6	1.4
Fri	9.6	9.3	1.2	8.7	1.4	4.6	1.7
Fri	9.6	9.4	1.5	8.4	1.5	4.6	1.4
Sat	9.8	9.6	1.4	8.7	1.4	4.6	1.4
Sat	9.6	9.4	1.4	8.4	1.5	4.6	1.5
AVG:	9.5	9.2	1.4	8.7	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)	
22-Oct	PHFB	0	0	151	0	0	0	0	0	0	0	0	0	0	0	0	0	91	0	100	0	342	
22-Oct	SWFB	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
22-Oct	PH1	21	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
22-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct	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		11		126		2		0		0		0		0		0		46		50		466	
23-Oct	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	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		0		0		0		0		0		0		0		0		0		0		0	
24-Oct	PHFB	0	0	8	0	0	0	26	0	0	0	0	0	0	0	5	125	0	0	117		281	
24-Oct	SWFB	0	0	181	210	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396
24-Oct	PH1	55	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
24-Oct	PH2	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
24-Oct	PH3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
24-Oct	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24-Oct	SW2	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
24-Oct	SW3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
avg/Survey		46		200		2		20		0		0		0		3		63		59		781	
25-Oct	PHFB	0	0	37	0	0	0	18	0	0	0	0	0	0	0	106	0	0	0	0		161	
25-Oct	SWFB	0	0	299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299
25-Oct	PH1	56	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
25-Oct	PH2	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
25-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Oct	SW2	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
25-Oct	SW3	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
avg/Survey		52		168		1		34		0		0		0		0		53		0		614	

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)
26-Oct	PHFB	0	0	0	0	0	0	336	0	0	0	0	0	0	0	0	0	0	0	112	121	569
26-Oct	SWFB	0	0	176	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	309
26-Oct	PH1	51	6	0	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	69	
26-Oct	PH2	25	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
26-Oct	PH3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
26-Oct	SW1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
26-Oct	SW2	7	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	42	
26-Oct	SW3	49	0	0	0	0	0	28	15	0	0	0	0	0	0	0	0	0	0	0	92	
avg/Survey		75		155		8		207		0		0		0		0		0		117		1121
27-Oct	PHFB	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	22	0	100	110	258
27-Oct	SWFB	0	0	289	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	589
27-Oct	PH1	106	94	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
27-Oct	PH2	29	53	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
27-Oct	PH3	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
27-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Oct	SW2	10	0	0	0	0	0	21	38	0	0	0	0	0	0	0	0	0	0	0	0	69
27-Oct	SW3	28	0	0	0	0	0	45	46	0	0	0	0	0	0	0	0	0	0	0	0	119
avg/Survey		166		295		6		88		0		0		0		0		11		105		1340
28-Oct	PHFB	0	0	22	49	0	0	45	0	0	0	0	0	0	0	0	16	0	109	115	356	
28-Oct	SWFB	0	0	488	347	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	840
28-Oct	PH1	61	48	32	0	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
28-Oct	PH2	16	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
28-Oct	PH3	57	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
28-Oct	SW1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
28-Oct	SW2	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	38
28-Oct	SW3	51	0	0	0	0	0	52	53	0	0	0	0	0	0	0	0	0	0	0	0	156
avg/Survey		128		469		8		97		0		0		0		0		8		112		1642
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		954	2822	49	890	0	0	0	5	360	884									5964		
avg/Survey		68	202	4	64	0	0	0	0	26	63									426		