

FISHWAY STATUS REPORT

Date: 10/21/2017
 Inspection Period: 10/15/2017 thru 10/21/2017



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:	59 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	8.6		
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	9.2		
Entrance weir NE2	0	depth (≥ 8')	AVG	8.9		
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, 4 Navlock and 7 PH lines (3 failed on 10/18) 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' .

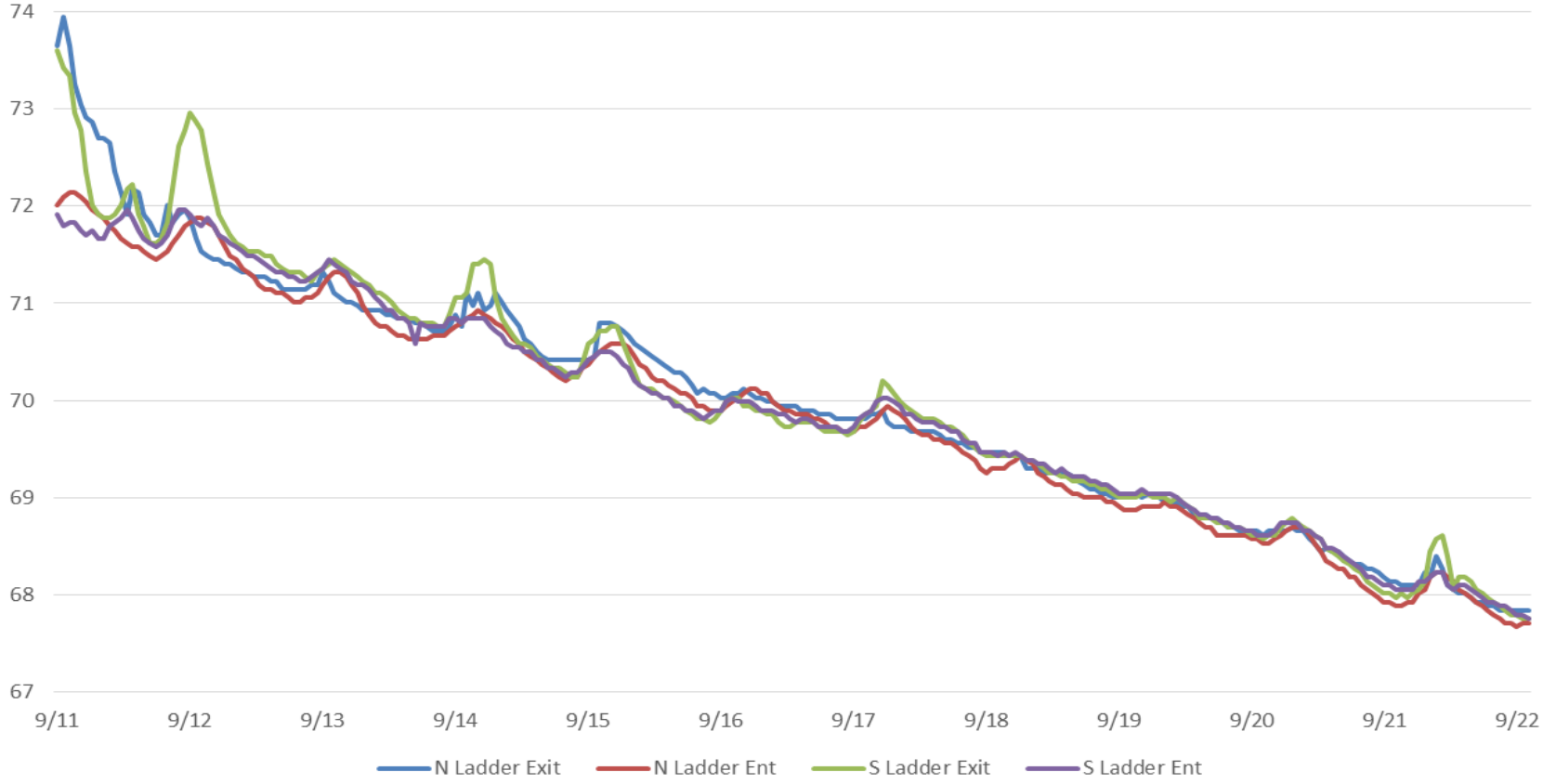
Research:

WDFW angling crew continues the pikeminnow removal from JD PH tailrace since 5/15. **Great annual catch of 3,472 NPM by 10/08/17.**

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 underway since 7 August.

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)
<i>0-2</i>	<i>1:20</i>	<i>80</i>	<i>2.25</i>
<i>2 - 4</i>	<i>2:39</i>	<i>159</i>	<i>2.28</i>
<i>4 - 6</i>	<i>4:00</i>	<i>240</i>	<i>2.22</i>
<i>6 - 8</i>	<i>5:27</i>	<i>327</i>	<i>2.07</i>
<i>8 - 10</i>	<i>6:40</i>	<i>400</i>	<i>2.47</i>
<i>10 - 12</i>	<i>7:54</i>	<i>474</i>	<i>2.43</i>
<i>12 - 14</i>	<i>9:10</i>	<i>550</i>	<i>2.37</i>
<i>14 - 16</i>	<i>10:22</i>	<i>622</i>	<i>2.50</i>
<i>16 - 18</i>	<i>11:32</i>	<i>692</i>	<i>2.57</i>
			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	61	6.0	NA
Mon	60	6.0	NA
Tue	60	6.0	NA
Wed	59	6.0	NA
Thur	59	6.0	NA
Fri	59	6.0	NA
Sat	58	6.0	NA
AVG:	59	6.0	NA
			MAX NA
			MIN NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.0	8.7	1.3	8.6	1.5	4.6	1.6
Sun	9.5	9.5	1.3	8.5	1.6	4.6	1.7
Mon	8.8	8.9	1.3	8.8	1.6	4.6	1.5
Mon	9.2	9.3	1.6	8.0	1.5	4.6	1.6
Tues	9.3	9.0	1.3	8.7	1.5	4.6	1.7
Tues	9.1	8.8	1.4	8.4	1.5	4.6	1.8
Wed	9.1	8.7	1.4	8.3	1.5	4.5	1.7
Wed	9.6	9.3	1.4	8.7	1.5	4.6	1.4
Thur	9.1	8.8	1.5	8.4	1.5	4.6	1.7
Thur	9.3	9.0	1.4	9.1	1.6	4.6	1.5
Fri	8.7	8.4	1.5	8.4	1.6	4.6	1.8
Fri	9.2	8.9	1.3	9.0	1.5	4.5	1.4
Sat	9.2	8.9	1.3	9.0	1.5	4.6	1.4
Sat	9.1	8.8	1.3	8.9	1.5	4.6	1.5
AVG:	9.2	8.9	1.4	8.6	1.5	4.6	1.6

JDA Bird Counts: 10/15/17 to 10/21/17

F(1): Forage AM survey F(2): Forage PM Survey 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)	
15-Oct	PHFB	0	0	0	0	0	0	18	9	0	0	0	0	0	0	0	0	119	0	0	40	186
15-Oct	SWFB	0	0	321	247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	568
15-Oct	PH1	0	4	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
15-Oct	PH2	22	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
15-Oct	PH3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
15-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Oct	SW2	0	0	0	0	10	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	49
15-Oct	SW3	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Avg/Survey		23		287		10		33		0		0		0		0		60		20		863
16-Oct	PHFB	0	0	41	0	0	0	22	11	0	0	0	0	0	0	0	0	9	0	113	0	196
16-Oct	SWFB	0	0	297	312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	609
16-Oct	PH1	7	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
16-Oct	PH2	28	24	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
16-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Oct	SW2	0	0	0	0	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	45
16-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		31		325		3		39		0		0		0		0		5		57		918
17-Oct	PHFB	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	52	115	52	244
17-Oct	SWFB	0	0	206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206
17-Oct	PH1	8	2	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
17-Oct	PH2	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
17-Oct	PH3	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	53
17-Oct	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17-Oct	SW2	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
17-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		21		103		4		43		0		0		0		0		26		84		559
18-Oct	PHFB	0	0	6	0	0	0	71	4	0	0	0	0	0	0	0	0	53	0	100	117	351
18-Oct	SWFB	0	0	215	379	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	597
18-Oct	PH1	1	10	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
18-Oct	PH2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
18-Oct	PH3	0	0	0	0	0	0	57	5	0	0	0	0	0	0	0	0	0	0	0	0	62
18-Oct	SW1	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
18-Oct	SW2	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	63
18-Oct	SW3	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Avg/Survey		7		300		6		111		0		0		0		0		27		109		1118

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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)	
19-Oct	PHFB	0	0	173	165	0	0	16	0	0	0	0	0	0	0	0	0	113	26	0	26	519
19-Oct	SWFB	0	0	89	77	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	168
19-Oct	PH1	9	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
19-Oct	PH2	27	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
19-Oct	PH3	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
19-Oct	SW1	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
19-Oct	SW2	2	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	7
19-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Avg/Survey		28		252		5		30		0		0		1		0		70		13	793	
20-Oct	PHFB	0	0	0	280	0	0	1	0	0	0	0	0	0	0	0	0	138	75	0	100	594
20-Oct	SWFB	0	0	207	93	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	302
20-Oct	PH1	21	23	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
20-Oct	PH2	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
20-Oct	PH3	7	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	58
20-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Oct	SW2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		33		290		3		27		0		0		0		0		107		50	1018	
21-Oct	PHFB	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	77	77	100	100	358
21-Oct	SWFB	111	0	0	511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	622
21-Oct	PH1	22	31	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
21-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Oct	SW2	0	0	0	1	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	8
21-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		82		256		4		6		0		0		0		0		77		100	1048	
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		448		3625		65		576		0		0		1		0		739		863	6317	
Avg/Survey		32		259		5		41		0		0		0		0		53		62	451	