


FISHWAY STATUS REPORT

Date: 9/2/2017
 Inspection Period: 8/27/2017 thru 9/2/2017



**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:	72 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	8.5		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.42		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG	8.8		
Entrance weir NE2	0	depth (≥ 8')	AVG	8.8		
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.5	Manual mode due to sensor failure since 8/28/17.	
Submersible traveling screens	0	visual inspect	August STS camera inspection completed by 8/17. No bad STSs were found.			
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack Crane in service since 6/01. No raking necessary due to low debris in August.			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	FOP	Fish spill ended and two TSW were shut down on 8/31.			
Spill pattern	0	TSW per FPP	All Spillway bays in service since 5/22.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF in a limited, twice a week, 6 hrs sampling due to river temperatures above 70F since 7/23/17.

Maintenance:

STS annual maintenance all complete in mid-May.

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

Research: None

Birds :

USDA gull hazing from a boat downstream of JD Tailrace BRZ ended on 7/30/17.

see the Avian Numbers tab.

6 Tower-to-Tower, 6 spillway (1 failed 23 August,) 4 Navlock and 4 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

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:

JBS Tainter Gate in manual mode due to the Channel's sensor failure since 8/27. Shortage of JD O&M funding may result in a longer OOS.

Trashrack Crane was repaired/ returned to service on 6/01.

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:

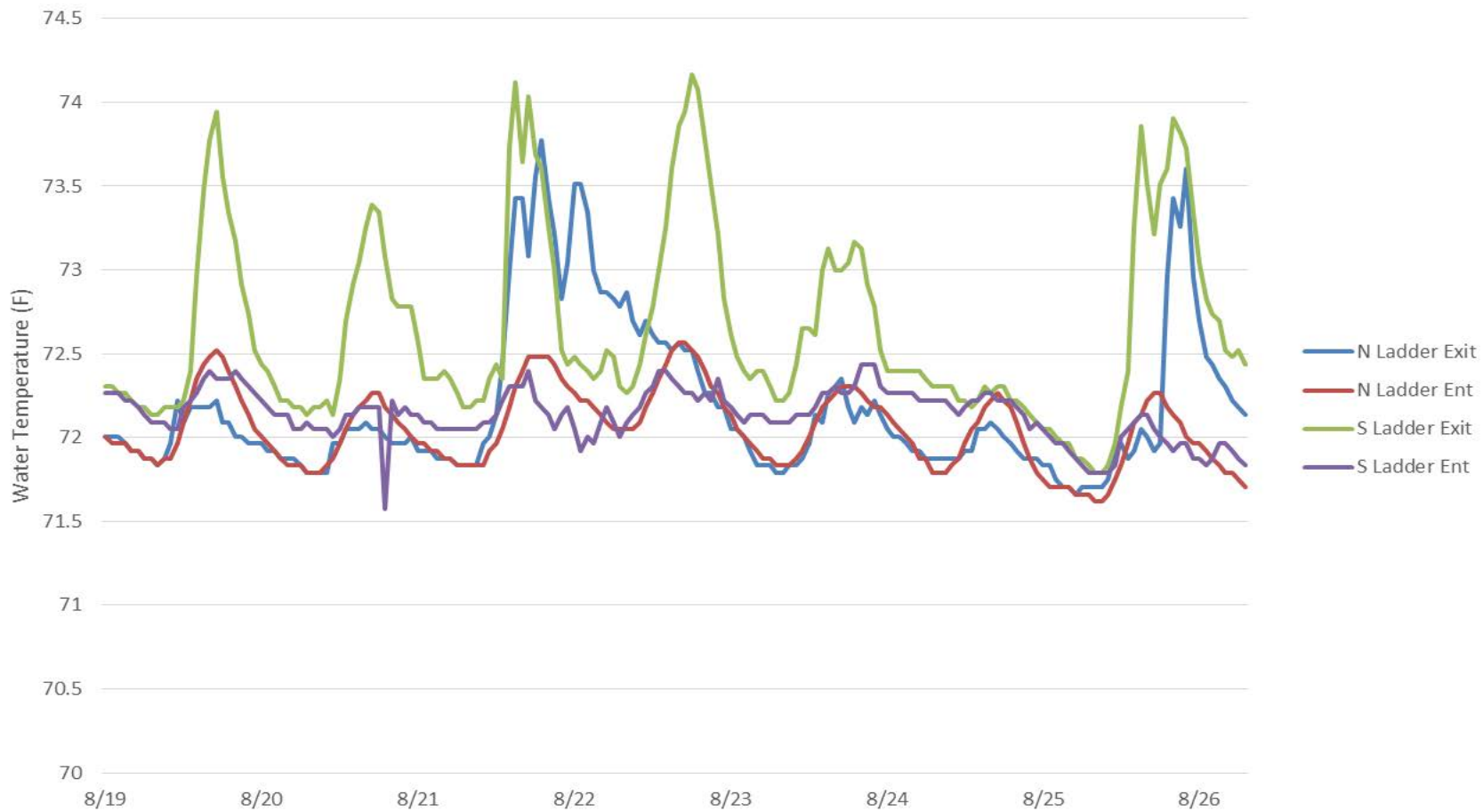
All tribal lamprey trapping successfully ended on 8/18/17.

WDFW angling crew continues the pikeminnow removal from JD PH tailrace (fishing from PH deck) since 5/15. **Great catches with 3,332 NPM total by 9/03.**

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.

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

John Day Dam Fishladder Water Temperatures (8/19/17 - 8/26/17)



JDA Collection Channel Velocity

Date 26-Aug-17

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:19	79	2.28
2 - 4	2:33	153	2.43
4 - 6	3:51	231	2.31
6 - 8	5:08	308	2.34
8 - 10	6:20	380	2.50
10 - 12	7:38	458	2.31
12 - 14	8:56	536	2.31
14 - 16	10:10	610	2.43
16 - 18	11:13	673	2.86
			2.42

TW Bay19= 159.7

RPMs 68/68

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks	
Sun	72	6.0		0.0
Mon	72	6.0	5	6 hour sample mode
Tue	72	6.0		
Wed	72	6.0		
Thur	72	6.0	13	6 hour sample mode
Fri	71	6.0		
Sat	71	6.0		
AVG:	72	AVG: 6.0	AVG 9	
			MAX 13	
			MIN 5	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.7	8.6	1.3	8.4	1.6	4.6	1.3
Sun	8.2	8.4	1.1	9.1	1.5	4.5	1.4
Mon	8.5	8.6	1.5	8.4	1.5	4.5	1.4
Mon	8.7	8.8	1.4	8.6	1.4	4.6	1.4
Tues	8.5	8.4	1.4	8.5	1.6	4.5	1.6
Tues	8.9	8.8	1.3	9.1	1.5	4.0-5.0	1.7
Wed	8.4	8.2	1.4	8.1	1.4	4.0-5.0	1.7
Wed	9.0	8.9	1.4	8.8	1.4	4.0-5.0	1.6
Thur	9.2	9.0	1.4	8.0	1.4	4.0-5.0	1.7
Thur	8.6	8.8	1.4	8.8	1.5	4.0-5.0	1.6
Fri	8.7	8.6	1.4	8.0	1.4	4.0-5.0	1.7
Fri	9.7	9.6	1.4	8.1	1.4	4.0-5.0	1.7
Sat	8.4	8.4	1.4	8.2	1.4	4.0-5.0	1.6
Sat	9.6	9.8	1.3	8.4	1.4	4.0-5.0	1.5
AVG:	8.8	8.8	1.4	8.5	1.5	4.5	1.6

4.0-5.0

Tainter gate in manual mode but in criteria- due to CH sensor failure

JDA Bird Counts: 8/27/17 to 9/2/17

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)			
27-Aug	PHFB	0	0	5	17	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	
27-Aug	SWFB	0	0	172	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249	
27-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-Aug	PH3	29	0	0	0	0	0	0	0	0	0	0	0	25	0	31	0	0	0	0	0	0	85	
27-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-Aug	SW2	0	0	0	0	0	0	0	0	0	0	0	0	25	81	0	0	0	0	0	0	0	106	
27-Aug	SW3	38	187	0	0	0	0	0	0	0	0	0	0	28	15	23	0	0	0	0	0	0	291	
Avg/Survey		127		136		0		13		0		0		87		27		0		0				779
28-Aug	PHFB	0	0	18	1	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
28-Aug	SWFB	0	0	146	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167	
28-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	
28-Aug	PH3	43	59	0	0	0	0	4	0	0	0	0	0	9	32	2	0	0	0	0	0	0	149	
28-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28-Aug	SW2	0	0	0	0	0	0	0	0	0	0	0	0	12	6	0	0	0	0	0	0	0	18	
28-Aug	SW3	71	61	0	0	0	0	0	0	0	0	0	0	44	24	0	0	0	0	0	0	0	200	
Avg/Survey		117		93		0		12		0		0		67		1		0		0				578
29-Aug	PHFB	0	0	7	16	0	0	28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	52	
29-Aug	SWFB	0	0	67	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	
29-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29-Aug	PH3	12	11	0	0	0	0	0	0	0	0	0	0	14	0	5	11	0	0	0	0	0	53	
29-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29-Aug	SW2	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13	
29-Aug	SW3	9	12	0	0	0	0	0	0	0	0	0	0	14	0	0	22	0	0	0	0	0	57	
Avg/Survey		22		54		0		15		0		0		21		19		0		0				259
30-Aug	PHFB	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
30-Aug	SWFB	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
30-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30-Aug	PH3	11	7	0	0	0	0	0	0	0	0	0	0	12	2	0	0	0	0	0	0	0	32	
30-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30-Aug	SW2	0	10	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	16	
30-Aug	SW3	92	54	0	0	0	0	0	0	0	0	0	0	16	11	0	0	0	0	0	0	0	173	
Avg/Survey		87		18		0		0		0		0		24		0		0		0				256

JDA Bird Counts: 8/27/17 to 9/2/17
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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)					
31-Aug	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Aug	SWFB	0	0	82	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194
31-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Aug	PH2	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5
31-Aug	PH3	12	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	21
31-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Aug	SW2	10	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	17
31-Aug	SW3	67	41	0	0	0	0	0	0	0	0	0	0	11	7	0	0	0	0	0	0	0	0	0	0	126
Avg/Survey		67		97		0		0		0		0		18		0		0		0		0		0	363	

1-Sep	PHFB	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
1-Sep	SWFB	0	0	106	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243
1-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
1-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
1-Sep	SW3	6	3	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	14
Avg/Survey		5		150		0		0		0		0		4		0		0		0		0		0	317	

2-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	SWFB	0	0	37	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
2-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Sep	SW3	4	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	11
Avg/Survey		2		78		0		0		0		0		4		0		0		0		0		0	166	

Totals	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total			
	F		NF		F		NF		F		NF		F		NF		F		NF					
Weekly Total	852		1248		0		78		0		0		446		94		0		0		0		0	2718
Avg/Survey	61		89		0		6		0		0		32		7		0		0		0		0	194