


# FISHWAY STATUS REPORT

**Date:** 1/26/2019  
**Inspection Period:** 1/20/2019 thru 1/26/2019



**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 once per day during winter maintenance, Dec. 1 - Feb. 28.  
Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspection OOC	Criteria Limit	Total Number of Inspections: 7	Temperature: 41 F
				Secchi: 6.0 Ft.
<b>NORTH FISHWAY</b>			In service with all 6 AWS pumps available since 1/17/19 PM.	
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	
<b>SOUTH FISHWAY</b>	OOS		OOS/ orifice flow only since 1/18/19 PM. Dewatered on 1/22. RTS end of February.	
Exit differential	OOS	≤ 0.5'		
Exit Control weirs	OOS	Mid setting	Mid setting is normal for JDS	
Count station differential	OOS	≤ 0.3'		
Weir crest depth (US gauge)	OOS	1.0' ± 0.1'		
South entrance differential	OOS	1.0' - 2.0'	AVG #DIV/0!	
Entrance weir SE1	OOS	depth (≥ 8')	AVG #DIV/0!	
Collection channel velocity	OOS	1.5 - 4 fps	AVG 2.54	
N. Entrance PH(Bay 19)differential	OOS	1.0' - 2.0'	AVG #DIV/0!	
Entrance weir NE1	OOS	depth (≥ 8')	AVG #DIV/0!	
Entrance weir NE2	OOS	depth (≥ 8')	AVG #DIV/0!	
<b>JUVENILE PASSAGE</b>	0		In service since 2/28. Planned dewatering/ inspection on 1/30/19.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	OOS	visual inspect	All STSs removed for winter maintenance after 12/16/18.	
Turbine trashrack drawdown	0	<1.5', wkly	N/A	
Vert barrier screen drawdown	0	<1.5', wkly	N/A	
Spill volume	OOS	per FPP	All gates on seal since 1 December 2018. 2019 Fish Spill season starts on 10 April.	
Spill pattern	OOS	per FPP	None	
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

### SMOLT MONITORING FACILITY

**Operation:**

SMF continues OOS since 11/28/18. RTS is 1 March with the first sample assigned to 2 March 2019.

**Maintenance:**

SMF SCADA update by JD Electrical/ Portland District Engineers is underway but its completion is delayed by one year to February 2020. Due to complexity of electronic components and incomplete existing as-builts.

**Research:** None

**Fallbacks:**           AVG:   0                   MAX:   0                   MIN:   0

### ADULT FISHWAYS & TW AVIAN GRID

**Birds:**

Bird numbers have declined significantly due to low juvenile shad abundance in winter. See Avian Numbers tab for details.

All 125 avian lines in place without any deficiencies.

**Operations:**

JD North Fishway returned to service on 1/17 PM. All six AWS pumps are available.

JD South Fishway was successfully dewatered on 22 January 2019. 4 juvenile steelhead and 26 adult lamprey were encountered, bagged and released in good condition (steelhead into Tailrace, lamprey upstream FB.) Low fish numbers attributed to thorough flushing of fishway before salvage operation.

MU Gatewell Drawdowns: All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

**Maintenance:**

JD North Fishway's LPS improvements contract continues on schedule. RTS May 2019.

JD South AWS turbine 1 is OOS, in poor condition and urgently awaiting its overhaul as soon as \$ 3 million becomes available (hopefully in a year or two ?)

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

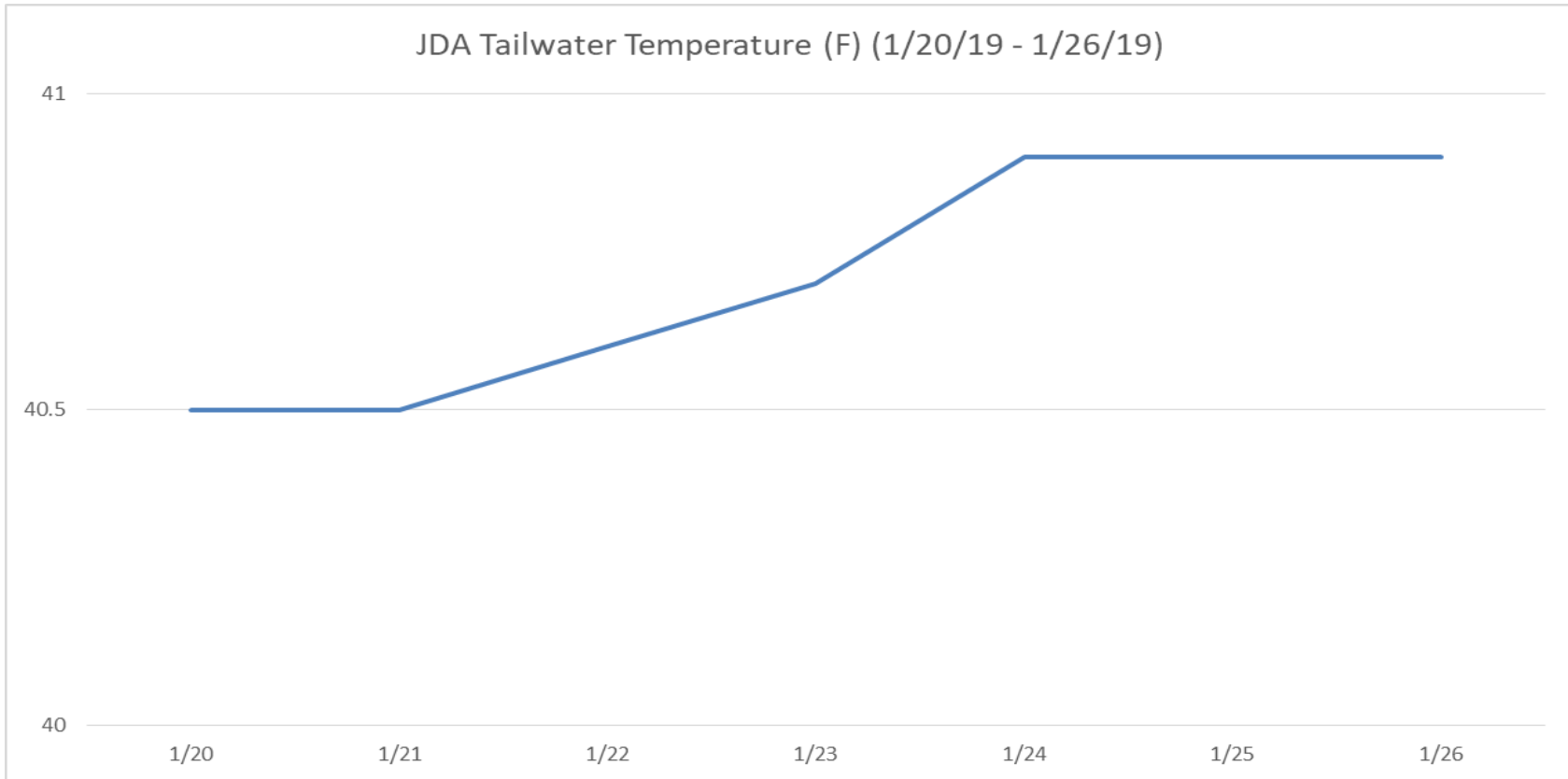
**Research:**

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

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

JDA Tailwater Temperature (F) (1/20/19 - 1/26/19)



## JDA Collection Channel Velocity

Date 9-Jan-19

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:08	68	2.65
2 - 4	2:19	139	2.54
4 - 6	3:31	211	2.50
6 - 8	4:45	285	2.43
8 - 10	5:57	357	2.50
10 - 12	7:05	425	2.65
12 - 14	8:19	499	2.43
14 - 16	9:36	576	2.34
16 - 18	10:40	640	2.81
			<b>2.54</b>

Bay 19 TW:	160.5
Turbine 2-3:	68 RPM

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

## John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	41	6.0	NA
Mon	41	6.0	NA
Tue	41	6.0	NA
Wed	41	6.0	NA
Thur	41	6.0	NA
Fri	41	6.0	NA
Sat	41	6.0	NA
<b>AVG:</b>	<b>41</b>	<b>AVG: 6.0</b>	<b>AVG/Sample #DIV/0!</b>
			<b>MAX 0</b>
			<b>MIN 0</b>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	oos	oos	oos	oos	1.5	4.6	oos
Sun	oos	oos	oos	oos			oos
Mon	oos	oos	oos	oos	1.7	4.6	oos
Mon	oos	oos	oos	oos			oos
Tues	oos	oos	oos	oos	1.6	4.6	oos
Tues	oos	oos	oos	oos			oos
Wed	oos	oos	oos	oos	1.4	4.6	oos
Wed	oos	oos	oos	oos			oos
Thur	oos	oos	oos	oos	1.5	4.6	oos
Thur	oos	oos	oos	oos			oos
Fri	oos	oos	oos	oos	1.5	4.7	oos
Fri	oos	oos	oos	oos			oos
Sat	oos	oos	oos	oos	1.6	4.6	oos
Sat	oos	oos	oos	oos			oos
<b>AVG:</b>	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.5	4.6	#DIV/0!

**JDA Bird Counts: 1/20/19 to 1/26/19**

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)	
20-Jan	PHFB	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
20-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan	PH1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan	SW2	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
20-Jan	SW3	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	2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	63
21-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jan	SW3	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	0	0	0	0	0	0	0	0	0	0
22-Jan	PHFB	0	0	1	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	18
22-Jan	SWFB	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22-Jan	PH1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
22-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Jan	SW2	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
22-Jan	SW3	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	1	0	2	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	39
23-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Jan	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Jan	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Jan	SW2	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
23-Jan	SW3	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	1	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	25



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John Day Dam  
Avian Zones

