


FISHWAY STATUS REPORT

Date: 1/13/2018
 Inspection Period: 1/7/2018 thru 1/13/2018



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

John Day Dam	Inspections	Criteria	Total Number of Inspections:	7	Temperature:	40 F
	Out of Criteria	Limit				
NORTH FISHWAY			In service since 12/22/17, with all 6 AWS pumps available.			
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	OOS		OOS since dewatered on 1/08. RTS is the week of 2/20/18.			
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	2.64		
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!		
JUVENILE PASSAGE	OOS		JBS season completed on 12/15/17. JBS dewatering scheduled for 1/23.			
Forebay/bypass conduit differential	OOS	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	OOS	visual inspect	All STSs removed from PH gatewells by 12/21/17, PMs and repairs underway.			
Turbine trashrack drawdown	OOS	<1.5', wkly				
Vert barrier screen drawdown	OOS	<1.5', wkly				
Spill volume	NA	per FPP	Spillway on seal since 8/01/17			
Spill pattern	NA	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF OOS since 11/30/17. It will return to service on 2/27/ 2018 which is one month earlier than the normal starting date, per FPOM request.

Maintenance:

Planning for the Switch Gate's Lower Seals replacement/ improvements to reduce water leakage and risk to passing juvenile lamprey.

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

Research: None

Birds :

Only a few birds, mostly cormorants are present at JD at this time. See the Avian Numbers tab for details.

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.

The avian lines' contractor is making fantastic progress due to mild and non-windy winter and is expected to complete all work early, by 3/1/18.

Operations:

JD South Fishway OOS/ dewatered since 1/08. Dewatering went well with hardly any fish encountered upstream of the CS due to flushing 3X. Only a handful of adult shad and 4 steelhead juveniles were bagged and released into tailrace in excellent condition. Additionally, 180 adult lamprey were found hiding inside of the Lamprey Trap. They were netted, loaded into transport tank and released into Forebay, a few miles upstream of the dam, in excellent condition.

JD North Ladder in service since 12/21/17. All 6 AWS pumps are available.

MU Gatewell Drawdowns: none due to winter maintenance season. Will commence in early March 2018.

Maintenance:

JD North Ladder - minor drainage issues on AWS pumps being handled by the JD Maintenance cleaning their drains.

JD South Fishway OOS/ dewatered since 1/08. Expansion joints and AWS turbine 3 oil leak's repairs will be accomplished by JD Maintenance before the return to service the week of 2/20/18. Planning for the ROV inspection of CC gratings for the same week.

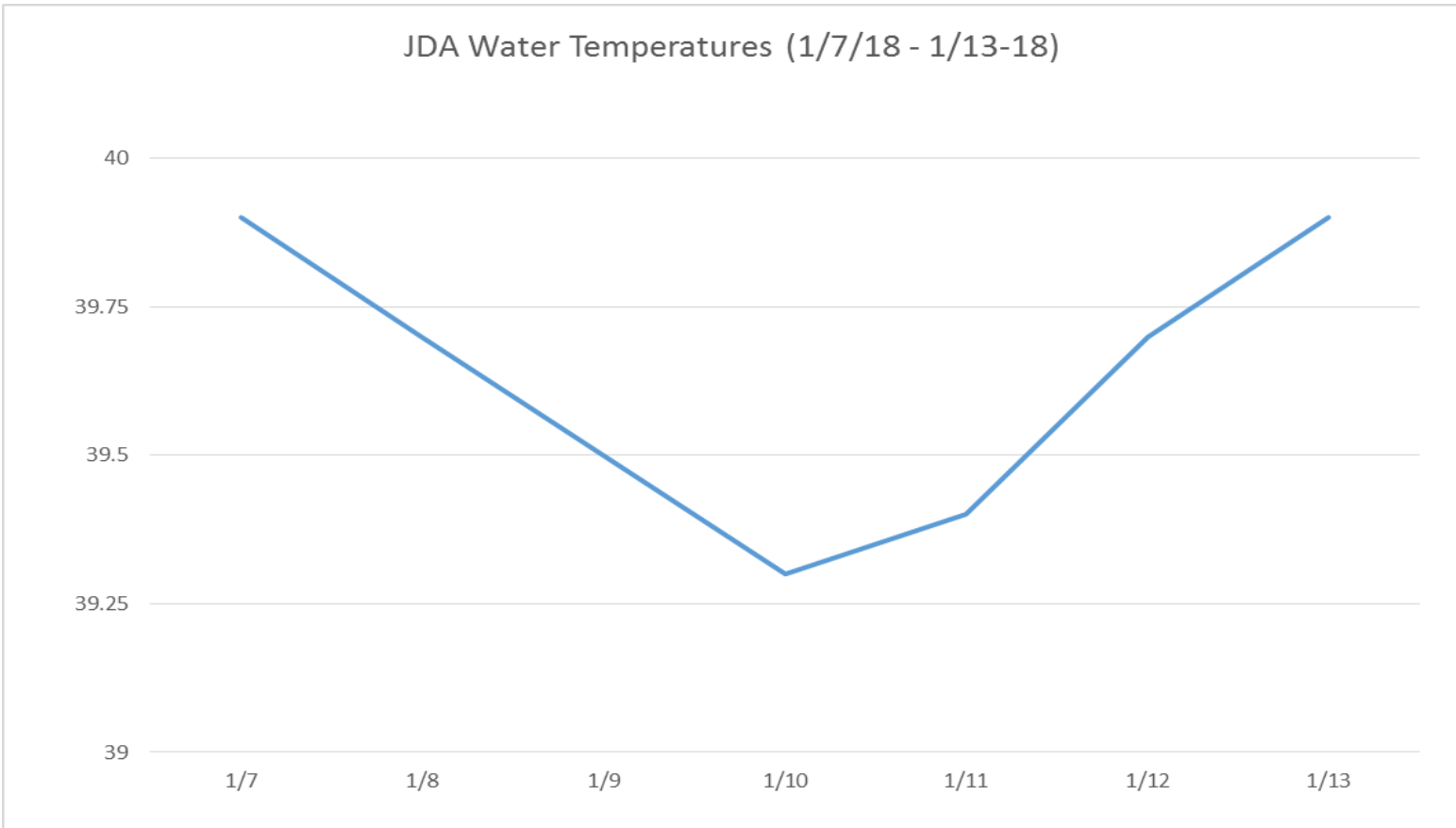
Calibration: All gauges/ sensors are within the criteria of 0.3' .

Research:

Adult PIT Support contract ran into minor issues and has been delayed since November. However, the contract is to be accepted by 2/1 and then PSMFC's crew will complete their hardware installation in February. Both ladders should be ready to detect Adult PITs by 1 March 2018.

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

JDA Water Temperatures (1/7/18 - 1/13-18)



JDA Collection Channel Velocity

Date 13-Dec-17

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:11	131	2.69
4 - 6	3:19	199	2.65
6 - 8	4:28	268	2.61
8 - 10	5:39	339	2.54
10 - 12	6:50	410	2.54
12 - 14	8:03	483	2.47
14 - 16	9:08	548	2.77
16 - 18	10:14	614	2.73
			2.64

TW Bay19 = 161.2

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	40	6.0	NA
Mon	40	6.0	NA
Tue	40	6.0	NA
Wed	39	6.0	NA
Thur	40	5.0	NA
Fri	40	6.0	NA
Sat	40	6.0	NA
AVG:	40	AVG: 5.9	AVG NA
			MAX NA
			MIN NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	oos	oos	oos	oos	1.4	4.6	oos
Sun							
Mon	oos	oos	oos	oos	1.5	4.6	oos
Mon							
Tues	oos	oos	oos	oos	1.6	4.6	oos
Tues							
Wed	oos	oos	oos	oos	1.5	4.5	oos
Wed							
Thur	oos	oos	oos	oos	1.4	4.6	oos
Thur							
Fri	oos	oos	oos	oos	1.4	4.6	oos
Fri							
Sat	oos	oos	oos	oos	1.5	4.6	oos
Sat							
AVG:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.5	4.6	#DIV/0!

