


# FISHWAY STATUS REPORT

Date: 3/19/2016  
 Inspection Period: 3/13/2016 thru 3/19/2016



**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 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:	44 F
	Out of Criteria	Limit	Secchi: 5.0 Ft.			
<b>NORTH FISHWAY</b>			In service; 5 AWS pumps available while # 4 will be re-installed soon.			
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>			One AWS turbine operation since 3/2 AM. NE1 and FOGs # 18 & 19 temp. closed.			
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	3	1.0' - 2.0'	AVG	1.0	3 OOCs are due to one AWS turbine operation.	
Entrance weir SE1	0	depth (≥ 8')	AVG	8.2		
Collection channel velocity	0	1.5 - 4 fps	AVG	1.79		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.8		
Entrance weir NE1	0	depth (≥ 8')	AVG	8.3		
Entrance weir NE2	0	depth (≥ 8')	AVG	#DIV/0!	NE2 entrance closed due to one AWS turbine operation	
<b>JUVENILE PASSAGE</b>			JBS winter maintenance's outage continues. ETR is 23 March 2016.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	OOS		
Submersible traveling screens	0	visual inspect	All STSs removed by 12/30/15; their annual / winter maintenance is underway			
Turbine trashrack drawdown	0	<1.5', wkly	MU trashracks' raking as necessary per the differentials			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	N/A	2016 Spill season starting on 4/10/16.			
Spill pattern	0	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

## SMOLT MONITORING FACILITY

**Operation:**

SMF will be watered up on 28 March 2016.

**Maintenance:**

SMF's winter maintenance underway.

SMF SCADA (control system's) annual maintenance by JD Electrical underway. There is a current UFR of \$ 150 K, for the SCADA update's P&S.

**Research:**

None

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

## OTHER JOHN DAY ISSUES:

**Birds :**

see the Avian Numbers tab. We report all species and locations, but in reality only gulls in the tailrace BRZ are relevant at JD.

13 Navlock and Spillway lines are missing out of 125 grid's total; JD attempting to contract their reinstallation before May 2016; need \$...

Lines 25 and 26 had been reinstalled by a contractor by 11/21/15; the remaining lines had been retensioned under the same contract.

**Operations:**

JBS Collection Channel OOS for winter maintenance through mid March.

JD North fishway returned to service and it has been meeting all FPP criteria since 1/5/16.

JD South Fishway RTS 3/2/16 with one AWS turbine operation. NE 2 and FOGs # 18 & 19 closed due to insufficient AWS.

MU Gatewell Drawdowns: Complete for 2015 passage season.

**Maintenance:**

JD JBS orifice gates/ tainter gate's annual maintenance underway.

JD North Fishway AWS - pump # 4 will be reinstalled mid March by a contractor.

JD South Fishway RTS 3/2 with one AWS turbine. SE1 entrance differential slightly OOC (less than 1.0') 7 times out of 14 inspections during this report period.

AWS Turbine 1 will be OOS long term for its repair, while turbine 2 repair is anticipated to be completed soon/ before 1 April.

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

**Research:**

2015 Adult Fish Counting by Normandeau Associates was completed on 10/31. The counting will commence again on 1 April 2016.

Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is at the design/PDT level.

Kevin Moynahan

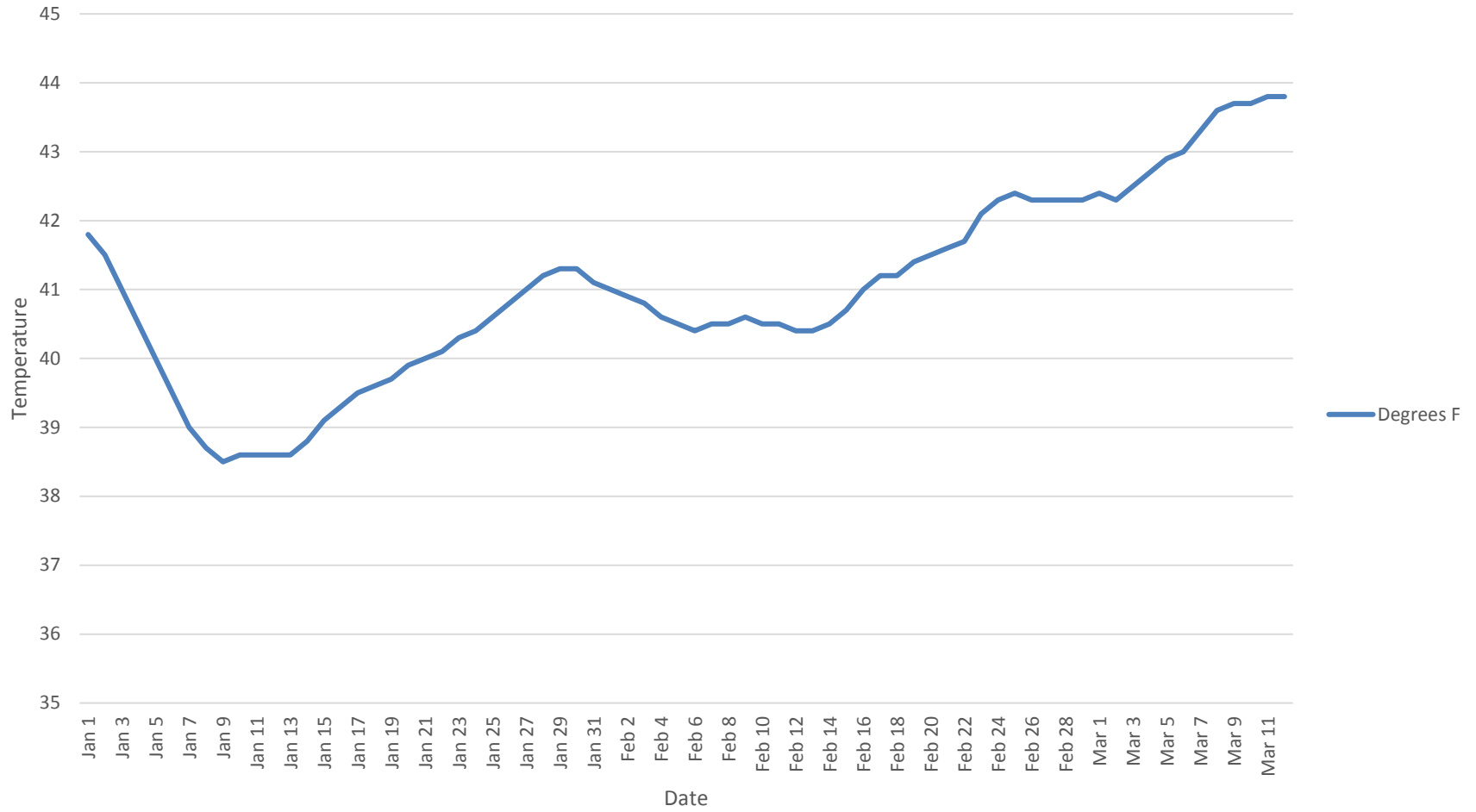
OPM John Day/Willow Creek Project

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

ate:

March 19, 2016

# John Day Tailwater Temperature



## JDA Collection Channel Velocity

Date 12-Mar-16

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	2:12	132	1.36
2 - 4	3:50	230	1.84
4 - 6	5:19	319	2.02
6 - 8	6:56	416	1.86
8 - 10	8:34	514	1.84
10 - 12	10:19	619	1.71
12 - 14	12:02	722	1.75
14 - 16	13:37	817	1.89
16 - 18	15:17	917	1.80
			<b>1.79</b>

**JDA Bird Counts: 3/13/16 to 3/19/16**

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)	
13-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Mar	PH1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Mar	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13-Mar	SW2	0	0	0	0	0	0	12	11	0	0	0	0	0	0	0	0	0	0	0	0	23
13-Mar	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	1	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	25
14-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Mar	PH1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Mar	SW1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14-Mar	SW2	0	0	0	0	0	10	11	0	0	0	0	0	0	0	0	0	0	0	0	0	21
14-Mar	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	7	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	24
15-Mar	PHFB	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
15-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Mar	PH1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15-Mar	PH2	0	0	0	1	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	5
15-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Mar	SW2	0	0	0	0	0	0	0	23	0	0	1	0	0	0	0	0	0	0	0	0	24
15-Mar	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	10	0	0	0	0	0	0	0	0	0	0	46
16-Mar	PHFB	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
16-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Mar	PH1	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
16-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Mar	SW2	0	0	0	0	0	0	11	12	0	0	0	0	0	0	0	0	0	0	0	0	23
16-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		2	0	0	0	2	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	46

**JDA Bird Counts: 3/13/16 to 3/19/16**

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)			
17-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Mar	SWFB	0	0	4	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
17-Mar	PH1	3	1	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
17-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Mar	SW2	0	0	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
17-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Avg/Survey</b>		<b>2</b>		<b>2</b>		<b>3</b>		<b>17</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>48</b>
18-Mar	PHFB	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	26
18-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Mar	PH1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Mar	SW2	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
18-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Avg/Survey</b>		<b>1</b>		<b>0</b>		<b>0</b>		<b>26</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>0</b>		<b>0</b>		<b>54</b>
19-Mar	PHFB	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	5	4	0	0	0	0	24
19-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Mar	PH1	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
19-Mar	PH2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Mar	SW2	0	0	0	0	7	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
19-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Avg/Survey</b>		<b>1</b>		<b>0</b>		<b>5</b>		<b>15</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>5</b>		<b>0</b>		<b>0</b>		<b>50</b>
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	F	NF			
<b>Weekly Total</b>		<b>10</b>	<b>6</b>	<b>34</b>	<b>213</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>293</b>		
<b>Avg/Survey</b>		<b>1</b>	<b>0</b>	<b>2</b>	<b>15</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>21</b>		

John Day Dam  
Avian Zones



## John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	44	4.0	
Mon	44	4.5	
Tue	44	5.5	
Wed	44	5.0	
Thur	44	5.5	
Fri	44	5.5	
Sat	44	5.0	
<b>AVG:</b>	<b>44</b>	<b>AVG: 5.0</b>	<b>AVG</b>
			<b>MAX 0</b>
			<b>MIN 0</b>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.0	Closed	1.0	8.0	1.6	OOS	1.6
Sun	8.2	Closed	1.0	8.1	1.5	OOS	1.7
Mon	8.3	Closed	0.9	8.4	1.4	OOS	1.5
Mon	8.7	Closed	1.0	8.8	1.5	OOS	1.7
Tues	8.1	Closed	0.8	8.6	1.6	OOS	1.8
Tues	8.1	Closed	0.8	8.2	1.6	OOS	1.8
Wed	8.9	Closed	1.0	8.3	1.4	OOS	1.7
Wed	8.4	Closed	1.1	8.5	1.4	OOS	1.8
Thur	8.0	Closed	1.0	8.2	1.4	OOS	1.8
Thur	8.2	Closed	1.2	8.3	1.4	OOS	1.9
Fri	8.3	Closed	1.1	8.0	1.4	OOS	1.9
Fri	8.0	Closed	1.2	8.0	1.5	OOS	1.8
Sat	8.3	Closed	1.0	8.0	1.5	OOS	1.8
Sat	8.0	Closed	1.3	8.0	1.5	OOS	1.8
<b>AVG:</b>	<b>8.3</b>	<b>#DIV/0!</b>	<b>1.0</b>	<b>8.2</b>	<b>1.5</b>	<b>#DIV/0!</b>	<b>1.8</b>