

# FISHWAY STATUS REPORT

Date: 3/26/2016  
 Inspection Period: 3/20/2016 thru 3/26/2016



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:	45 F
	Out of Criteria	Limit			Secchi:	4.8 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; NE2 and FOGs # 18 & 19 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	2	1.0' - 2.0'	AVG	1.1	OOC at 0.7' on 3/22 and 3/2, adjusted immediately	
Entrance weir SE1	1	depth (≥ 8')	AVG	8.3	OOC at 7.8' on 3/22, adjusted immediately	
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 and SMF were activated (without STSs) on 3/23			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	OOS		
Submersible traveling screens	0	visual inspect	All STSs will be installed by 1 April			
Turbine trashrack drawdown	0	<1.5', wkly	Pre-season trashracks' raking underway			
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 was watered up for the pre-season calibrations and functional testing on 3/23. It will be in bypass through 1 April.

### Maintenance:

Pre-season calibration and functional testing 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; no funding is available to reinstall for 2016 season.

### Operations:

JBS and SMF were watered up on 3/23 to allow for fine tuning and functional testing of components.

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 North Fishway AWS - pump # 4 reinstallation underway. ETR is May 2016.

JD South Fishway RTS 3/2 with one AWS turbine. SE1 entrance's differential was OOC twice, on 3/22 & 3/24 at 0.7'; immediate manual adjustments were made.

SE-1 weir depth OOC once, at 7.8' on 3/22; an immediate manual adjustment was made to correct it.

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:

Coordinating security and safety with Normandeau Assoc. before the 2016 Fish Counting Season commences on 1 April.

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

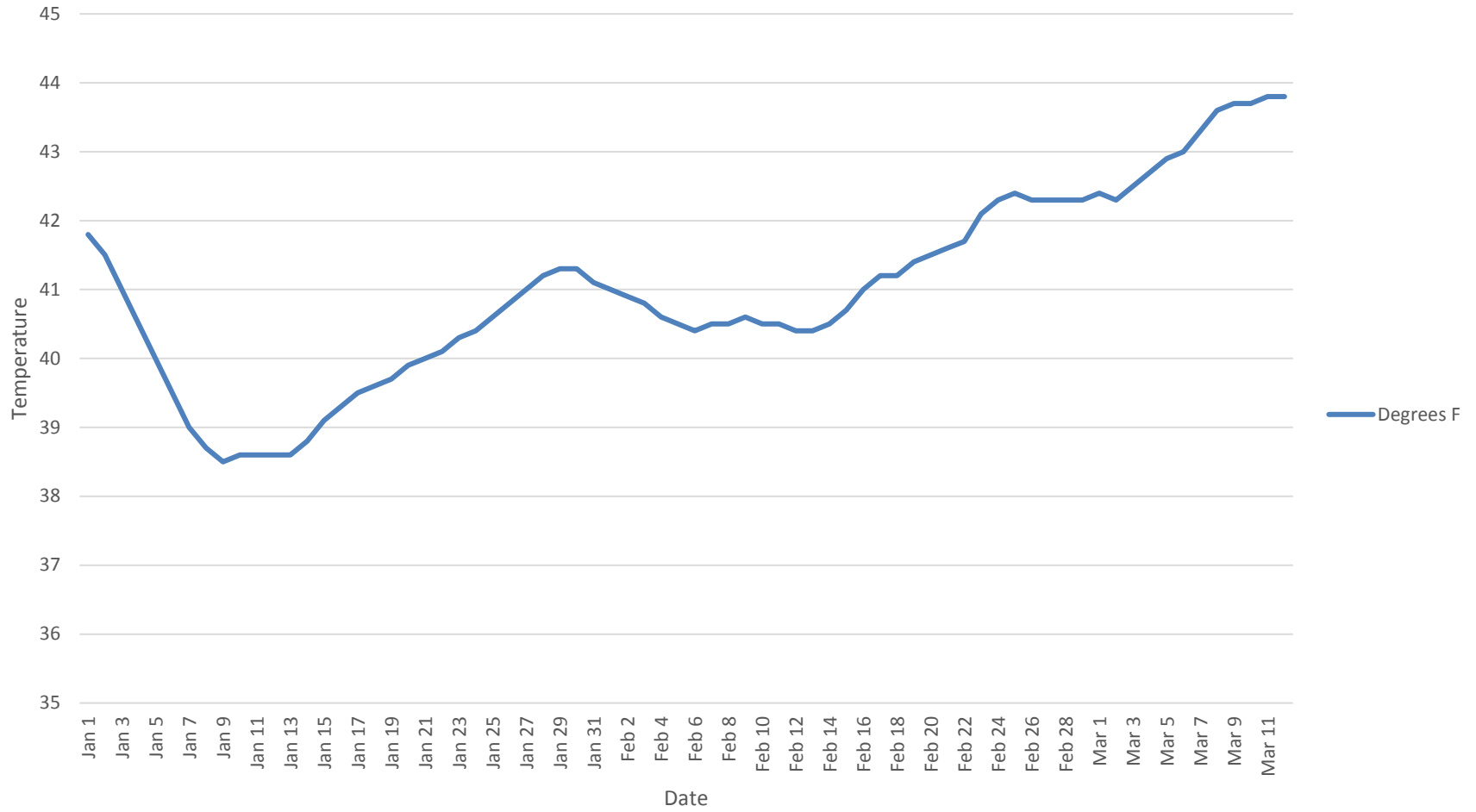
MOYNAHAN, KEVIN, PATRICK, 1393959157

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

ate:

March 26, 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		
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		
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		
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		
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		
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		
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		
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		
<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>			
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		
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		
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		
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		
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		
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		
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		
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		
<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>			
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		
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		
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		
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		
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		
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		
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		
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		
<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>Totals</b>		<b>Gulls</b>				<b>Cormorant</b>				<b>Caspian tern</b>				<b>White Pelican</b>				<b>Grebe</b>				<b>Total</b>			
		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>			<b>F</b>		<b>NF</b>
<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>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>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	5.5	
Mon	44	5.0	
Tue	44	5.0	
Wed	45	4.0	
Thur	45	5.0	
Fri	45	4.5	
Sat	45	4.5	
<b>AVG:</b>	<b>45</b>	<b>AVG:</b> <span style="border: 1px solid black; padding: 2px 10px;">4.8</span>	<b>AVG</b> <span style="border: 1px solid black; padding: 2px 10px;"></span>
			<b>MAX</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>
			<b>MIN</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.4	Closed	1.1	8.4	1.4	oos	1.8
Sun	8.4	Closed	1.2	8.4	1.5	oos	1.8
Mon	8.3	Closed	1.2	8.3	1.5	oos	1.8
Mon	8.3	Closed	1.2	8.4	1.5	oos	1.9
Tues	8.6	Closed	0.7	9.0	1.5	oos	1.8
Tues	8.4	Closed	1.1	7.8	1.5	4.6	1.7
Wed	8.4	Closed	1.1	8.4	1.5	4.6	2.0
Wed	8.0	Closed	1.3	8.0	1.5	4.6	1.9
Thur	8.1	Closed	0.7	8.1	1.4	4.6	1.9
Thur	8.0	Closed	1.4	8.0	1.6	4.6	1.7
Fri	8.2	Closed	1.0	8.2	1.4	4.6	2.0
Fri	8.2	Closed	1.0	8.6	1.5	4.6	1.7
Sat	8.0	Closed	1.3	8.0	1.6	4.5	1.9
Sat	8.5	Closed	1.2	8.0	1.5	4.6	1.7
<b>AVG:</b>	<b>8.3</b>	<b>#DIV/0!</b>	<b>1.1</b>	<b>8.3</b>	<b>1.5</b>	<b>4.6</b>	<b>1.8</b>