


# FISHWAY STATUS REPORT

Date: 12/5/2015  
 Inspection Period: 11/29/2015 thru 12/5/2015

All JD Fishways are inspected twice per day during fish season, 1 March - 30 November.  
 One inspection per day during the winter maintenance season, 1 December - 28 February.  
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.



**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

John Day Dam	Inspections	Criteria	Total Number of Inspections:	Temperature:
	Out of Criteria	Limit	9	47 F
<b>NORTH FISHWAY</b>			Dewatered on 12/01 ; 45 to 50 large sturgeon, 3 - 5 feet, salvaged/ released into tailrace	
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	oos
<b>SOUTH FISHWAY</b>			3 AWS Turbines in regular service since 2/28/15	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	mid setting	return to mid setting 12-2-2015 forebay < 265.0 foot	
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	1.5
Entrance weir SE1	0	depth (≥ 8')	AVG	8.8
Collection channel velocity	0	1.5 - 4 fps	AVG	3.04
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.3
Entrance weir NE1	0	depth (≥ 8')	AVG	8.3
Entrance weir NE2	1	depth (≥ 8')	AVG	8.2
			7.9 ' on 11/30 due to slow PLC control; corrected manually	
<b>JUVENILE PASSAGE</b>			SMF successfully dewatered on 11/24. JBS in service until 12/16 as required by FPP.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6
Submersible traveling screens	0	visual inspect	Camera inspection of STSs:2 bad screens from MU1 were replaced w/ working spares 11/18	
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	Bay2 & 1.6K	Spill season ended on 9/1. Bay 2 open at 1.6 K for JDN attraction, daylight hours only	
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

## SMOLT MONITORING FACILITY

### Operation:

End of season dewatering completed on 11/24. Approximately 150 adult salmonids, 12 sturgeon, 20 lamprey and a few catfish were evacuated through adult drain into the tailrace. SMF will be OOS/ undergoing maintenance until late March'15. JBS continues in service in its pre-SMF configuration (bypass at Crest Gate) until 12/16/15.

### Maintenance:

SMF has been winterized by JD Fisheries on 11/15. Only regular PMs will be performed this coming winter as all SMF hardware appears to be in good working order overall.

### 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.

Spillway Avian Line 68 snapped on approx. 10/31. 12 lines are missing out of 125 total at this time.

The following avian lines have snapped this season and are out of commission: 44, 45, 46, 52, 53,55, 56, 57, 60 and 68.

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

### Operations:

JD North fishway was successfully dewatered on 12/1. The following fish were salvaged or pushed to tailrace : 1 adult steelhead and 5 juvenile salmonids, an unprecedented 45 to 50 large, 3 to 5 feet sturgeon (very few encountered in the upper ladder, in the past,) 40 adult lamprey and 2 catfish.

JD North entrance is scheduled for dewatering on 12/7. ETR is late January 2015.

JD South Fishway in regular service with 3 AWS Turbines; it is meeting the optimal FPP criteria.

MU Gatewell Drawdowns: Differentials are checked Wednesdays and Sundays; all gatewells were in criteria.

### Maintenance:

JD North Fishway's winter maintenance underway since 12/2. AWS pumps' contractor continues testing and repairing all six units; ETR is 1 March 2016.

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.

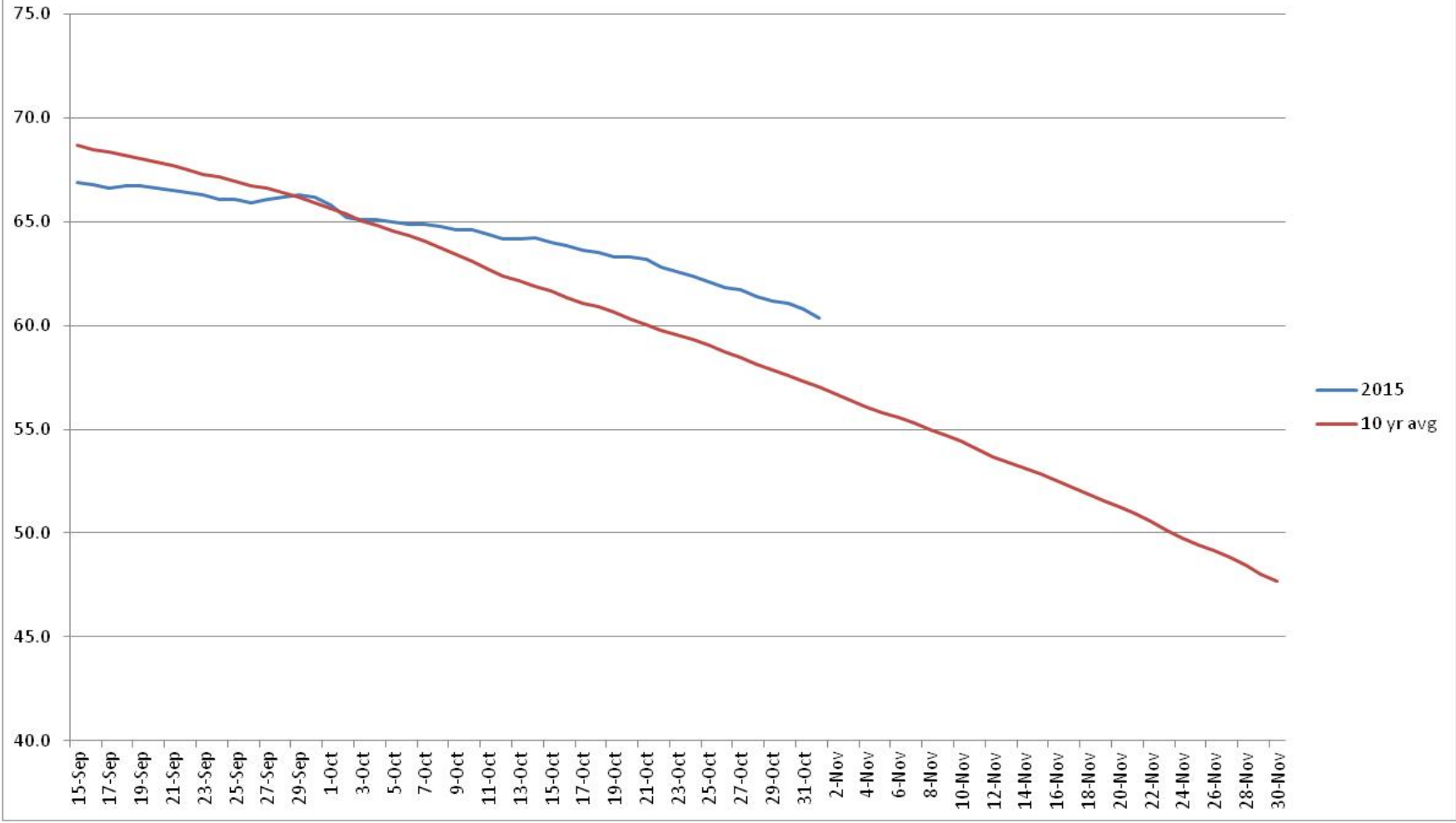
Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is at the design/PDT level.

Kevin Moynahan  
OPM John Day/Willow Creek Project

**Date:**            December 5, 2015

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

### John Day TW Temperature



## JDA Collection Channel Velocity

Date 24-Oct-15

By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:27	87	2.07
2 - 4	2:28	148	2.95
4 - 6	3:31	211	2.86
6 - 8	4:32	272	2.95
8 - 10	5:32	332	3.00
10 - 12	6:31	391	3.05
12 - 14	7:30	450	3.05
14 - 16	8:29	509	3.05
16 - 18	9:10	550	4.39
			<b>3.04</b>

**JDA Bird Counts: 11/22/15 to 11/28/15**

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)	
22-Nov	PHFB	0	0	675	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	790
22-Nov	SWFB	0	0	1225	1499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2730
22-Nov	PH1	25	35	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
22-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-Nov	SW2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		30		1749		11		0		0		0		0		0		0		11		3602
23-Nov	PHFB	0	0	477	775	0	0	2	0	0	0	0	0	0	0	0	0	0	0	27	17	1298
23-Nov	SWFB	0	0	748	775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1531
23-Nov	PH1	32	55	5	0	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
23-Nov	PH2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Nov	PH3	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53
23-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW3	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Avg/Survey		44		1390		8		34		0		0		0		0		0		26		3002
24-Nov	PHFB	0	0	433	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	19	522
24-Nov	SWFB	0	434	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	487
24-Nov	PH1	53	32	0	0	17	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
24-Nov	PH2	7	16	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	36
24-Nov	PH3	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
24-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SW2	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24-Nov	SW3	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	51
Avg/Survey		273		272		14		33		0		0		0		0		0		18		1215
25-Nov	PHFB	0	0	278	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	474
25-Nov	SWFB	0	0	258	399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	657
25-Nov	PH1	0	0	11	0	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
25-Nov	PH2	7	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
25-Nov	PH3	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
25-Nov	SW1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SW3	0	0	0	0	0	0	63	71	0	0	0	0	0	0	0	0	0	0	0	0	134
Avg/Survey		17		564		9		68		0		0		0		0		0		8		1328

**JDA Bird Counts: 11/22/15 to 11/28/15**

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)	
26-Nov	PHFB	0	0	46	305	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	4	373
26-Nov	SWFB	0	0	187	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	310
26-Nov	PH1	0	16	0	0	17	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
26-Nov	PH2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
26-Nov	PH3	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
26-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Nov	SW3	0	0	0	0	0	0	50	81	0	0	0	0	0	0	0	0	0	0	0	0	131
<b>Avg/Survey</b>		<b>17</b>		<b>331</b>		<b>21</b>		<b>66</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>2</b>	<b>872</b>	
27-Nov	PHFB	0	0	103	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	133
27-Nov	SWFB	0	0	104	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362
27-Nov	PH1	26	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
27-Nov	PH2	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
27-Nov	PH3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
27-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Nov	SW3	0	0	0	0	0	0	45	62	0	0	0	0	0	0	0	0	0	0	0	0	107
<b>Avg/Survey</b>		<b>22</b>		<b>246</b>		<b>3</b>		<b>54</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>2</b>	<b>650</b>	
28-Nov	PHFB	0	0	63	24	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	90
28-Nov	SWFB	0	0	149	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	450
28-Nov	PH1	26	15	0	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
28-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW3	0	0	0	0	0	0	53	63	0	0	0	0	0	0	0	0	0	0	0	0	116
<b>Avg/Survey</b>		<b>21</b>		<b>269</b>		<b>8</b>		<b>60</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>712</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>Weekly Total</b>		<b>845</b>		<b>9637</b>		<b>143</b>		<b>624</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>132</b>	<b>11381</b>	
<b>Avg/Survey</b>		<b>60</b>		<b>688</b>		<b>10</b>		<b>45</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>9</b>	<b>813</b>	

John Day Dam  
Avian Zones



## John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	49	6.0	
Mon	48	6.0	
Tue	48	6.0	
Wed	48	6.0	
Thur	46	6.0	
Fri	46	6.0	
Sat	45	6.0	
<b>AVG:</b>	<b>47</b>	<b>AVG:</b> <span style="border: 1px solid black; text-align: center;"><b>6.0</b></span>	<b>AVG</b> <span style="border: 1px solid black; text-align: center;"> </span>
			<b>MAX</b> <span style="border: 1px solid black; text-align: center;"><b>0</b></span>
			<b>MIN</b> <span style="border: 1px solid black; text-align: center;"><b>0</b></span>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.3	8.3	1.8	8.5	oos	4.6	1.3
Sun	8.0	8.0	1.5	8.7	oos	4.6	1.4
Mon	8.3	8.2	1.1	8.9	oos	4.6	1.3
Mon	8.1	7.9	1.8	8.8	oos	4.6	1.3
Tues					oos		
Tues	8.6	8.6	1.4	9.2	oos	4.6	1.2
Wed	8.5	8.4	1.2	8.1	oos	4.6	1.3
Wed					oos		
Thur	8.1	8.1	1.6	8.9	oos	4.6	1.4
Thur					oos		
Fri	8.2	8.2	1.5	8.9	oos	4.7	1.2
Fri					oos		
Sat	8.2	8.5	1.4	8.9	oos	4.3	1.1
Sat					oos		
<b>AVG:</b>	<b>8.3</b>	<b>8.2</b>	<b>1.5</b>	<b>8.8</b>	oos	<b>4.6</b>	<b>1.3</b>