

# FISHWAY STATUS REPORT

Date: 2/28/2015  
 Inspection Period: 2/22 thru 2/28/2015

All JD Fishways are inspected once per day during winter season, Dec. 1 - Feb. 28  
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

	<b>JOHN DAY DAM</b>	
	JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860	

<b>John Day Dam</b>	<b>Inspections</b>	<b>Criteria</b>	<b>Total Number of Inspections: 6</b>	<b>Temperature: 42 F</b>
	<b>Out of Criteria</b>	<b>Limit</b>		<b>Secchi: 6.0 Ft.</b>
<b>NORTH FISHWAY</b>			RTS with 5 AWS pumps available on 12/23; up to 4 pumps in service	
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>			RTS with 3 AWS turbines on 2/28/15	
Exit differential	N/A	≤ 0.5'		
Exit Control weirs	N/A	Mid setting	Mid setting is normal for JDS	
Count station differential	N/A	≤ 0.3'		
Weir crest depth (US gauge)	N/A	1.0' ± 0.1'		
South entrance differential	N/A	1.0' - 2.0'	AVG 1.6	
Entrance weir SE1	N/A	depth (≥ 8')	AVG 8.2	
Collection channel velocity	N/A	1.5 - 4 fps	AVG 3.19	
N. Entrance PH(Bay 19)differential	N/A	1.0' - 2.0'	AVG 1.5	
Entrance weir NE1	N/A	depth (≥ 8')	AVG 9.1	
Entrance weir NE2	N/A	depth (≥ 8')	AVG 9.0	
<b>JUVENILE PASSAGE</b>			JBS OOS since 12/18/14. RTS is 3/23/15	
Forebay/bypass conduit differential	N/A	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	N/A	visual inspect	STSS installation is scheduled for week of 3/23/15.	
Turbine trashrack drawdown	N/A	<1.5', wkly		
Vert barrier screen drawdown	N/A	<1.5', wkly		
Spill volume	OOS		On seal since 11/30	
Spill pattern	N/A	per FPP	2015 Spill season starts on 4/10, at 0001 hrs	
Turbine Unit Priority	N/A	per FPP		
Turbine 1% Efficiency	N/A	per FPP		

**SMOLT MONITORING FACILITY**

**Operations:** SMF will be OOS/ undergoing maintenance until late March'15.

**Debris:** N/A

**Maintenance:** SMF winterized by 11/26. Annual PMs underway. One transport flume's joint needs to be sealed; no other major issues this year.

**Research:**

None

**Fallbacks:** AVG: #DIV/0! MAX: #DIV/0! MIN: #DIV/0!

**OTHER ISSUES:****JOHN DAY**

**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.

Avian line # 26 was found failed/its end in the water on 9/1. This is shore- to-shore line and immediately adjacent to the previously missing # 27.

JD Engineering preparing SOW for the re-installation contract, which is expected in March '15; funding by special CRFM \$.

**Operations:**

JBS OOS since 12/20/14. RTS is in mid March '15.

JD North Fishway has been in service since 12/23; 5 out of 6 AWS pumps are available. Repair work on pump 4 continues; pump 3 has vibration issues and should be the last in service.

JD South Fishway RTS was on 2/28/15. All 3 AWS pumps in service and working properly.

**Maintenance:**

JD North AWS pumps - five out of total six are available. Repair of AWS pump # 4 by a contractor started on 1/26 & is ongoing.

JD South winter maintenance was all finalized by 2/27/15. Collection channel 90 degree corner (south end of PH) wall erosion was inspected by Portland Engineering and then a contractor used a land sonar to survey the area in February. Only the immediate erosion area is weak; it will be reinforced with a concrete plug during the next winter maintenance season, in February 2016. The metal plate covering the erosion is sound.

Calibration: 1/10/2014 All sensors were within the criteria of 0.3' .

**Research:**

2015 Adult Fish Counting by Normandeau Associates will commence on 1 April, 2015. Security and safety coordination underway.

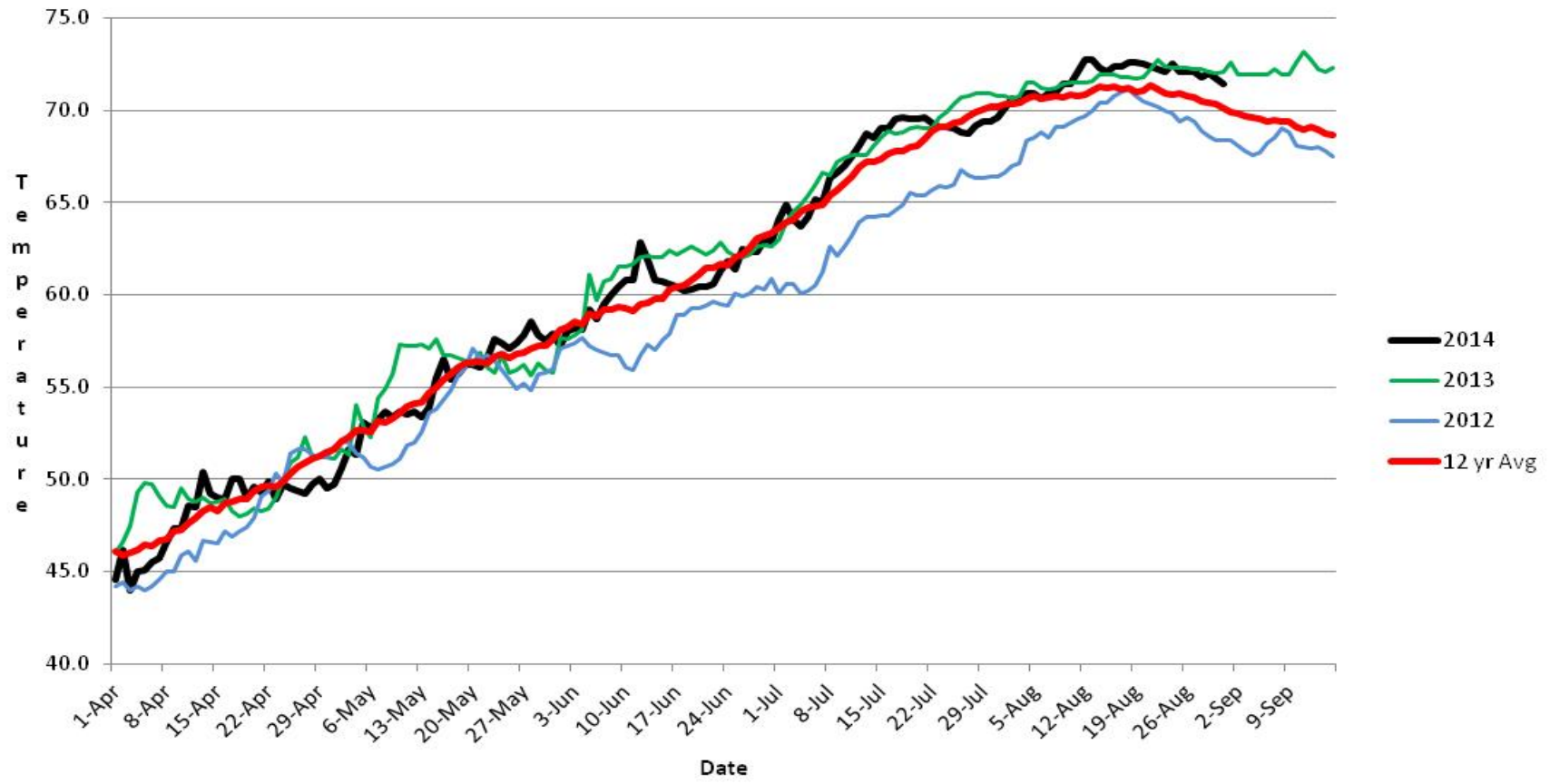
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

Date: \_\_\_ 21-Mar-15

OPM John Day/Willow Creek Project

### JDA SMF Water Temp



## JDA COLLECTION CHANNEL VELOCITY

Date 22-Dec-14

By: pk

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	01:05.0	65	2.77
2 - 4	0:02:02	122	3.16
4 - 6	0:03:00	180	3.10
6 - 8	0:04:01	241	2.95
8 - 10	0:04:59	299	3.10
10 - 12	0:05:54	354	3.27
12 - 14	0:06:57	417	2.86
14 - 16	0:07:58	478	2.95
16 - 18	0:08:38	518	4.50

**3.19**









John Day Dam  
Avian Zones 2013





**John Day:**

	Temp:	Secchi:	Fallbacks
Sun	42	6.0	
Mon	42	6.0	
Tues	42	6.0	
Wed	42	6.0	
Thur	42	6.0	
Fri	42	6.0	
Sat	42	6.0	
AVG:	<b>42</b>	AVG: <b>6.0</b>	AVG <b>#DIV/0!</b>
			MAX <b>#DIV/0!</b>
			MIN <b>#DIV/0!</b>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	oos	oos	oos	oos	1.5	oos	oos
Sun							
Mon	oos	oos	oos	oos	1.5	oos	oos
Mon							
Tues	oos	oos	oos	oos	1.6	oos	oos
Tues							
Wed	oos	oos	oos	oos	1.3	oos	oos
Wed							
Thur	oos	oos	oos	oos	1.5	oos	oos
Thur							
Fri	oos	oos	oos	oos	1.5	oos	oos
Fri							
Sat	9.1	9.0	1.6	8.2	1.4	oos	1.5
Sat							
AVG:	<b>9.1</b>	<b>9.0</b>	<b>1.6</b>	<b>8.2</b>	<b>1.5</b>	<b>#DIV/0!</b>	<b>1.5</b>