

# FISHWAY STATUS REPORT

Date: 1/24/2015  
 Inspection Period: 1/18 thru 1/24/2015

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:</b> 6	<b>Temperature:</b> 40 F
	<b>Out of Criteria</b>	<b>Limit</b>		<b>Secchi:</b> 5.7 Ft.
<b>NORTH FISHWAY</b>			RTS with 5 AWS pumps available on 12/23; up to 4 pumps in service this time of year.	
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>			Dewatered / OOS since 1/12/15. RTS is in late February.	
Exit differential	N/A	≤ 0.5'		
Exit Control weirs	N/A	High setting		
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 #DIV/0!	
Entrance weir SE1	N/A	depth (≥ 8')	AVG #DIV/0!	
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 #DIV/0!	
Entrance weir NE1	N/A	depth (≥ 8')	AVG #DIV/0!	
Entrance weir NE2	N/A	depth (≥ 8')	AVG #DIV/0!	
<b>JUVENILE PASSAGE</b>			SMF successfully dewatered on 11/24. JBS OOS since 12/18/14.	
Forebay/bypass conduit differential	N/A	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	N/A	visual inspect	All STSs removal completed on 12/18.	
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		
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 12/18/14. Its PH Collection Channel was successfully dewatered on 1/20. 9 small adult steelhead were salvaged and released in excellent condition; 7 into forebay and 2 into tailrace. Thanks to Martinson and Kovalchuk, PSMFC Sampling Bios for their outstanding assistance !

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 upper was successfully dewatered on 1/12/15. Its Collection Channel's partial dewatering, up to MU1 was completed by 1/23.

Only one adult carp and shad were salvaged and released alive. Remaining CC diffuser gratings will be ROV inspected. RTS is in late February ' 15.

### **Maintenance:**

JD North AWS pumps - five out of total six are available. Repairs of AWS pump # 4 by a contractor is scheduled to start on 1/26. RTS is by April '15 :)

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

JD South Fishway's annual inspections & maintenance underway since 1/12/15. South end of its PH Collection Channel was dewatered by 1/23.

JD Structural planning to repair two leaking expansion joints and Engineering will be inspecting/ evaluating the wall erosion at 90 degree bend, south PH to be fixed the following year; the temporary containment plate is estimated to last through the end of 2015 season.

### **Research:**

2014 Adult Fish Counting by Normandeau Associates completed on October 31. No fish counting at JD to occur until 1 April, 2015.

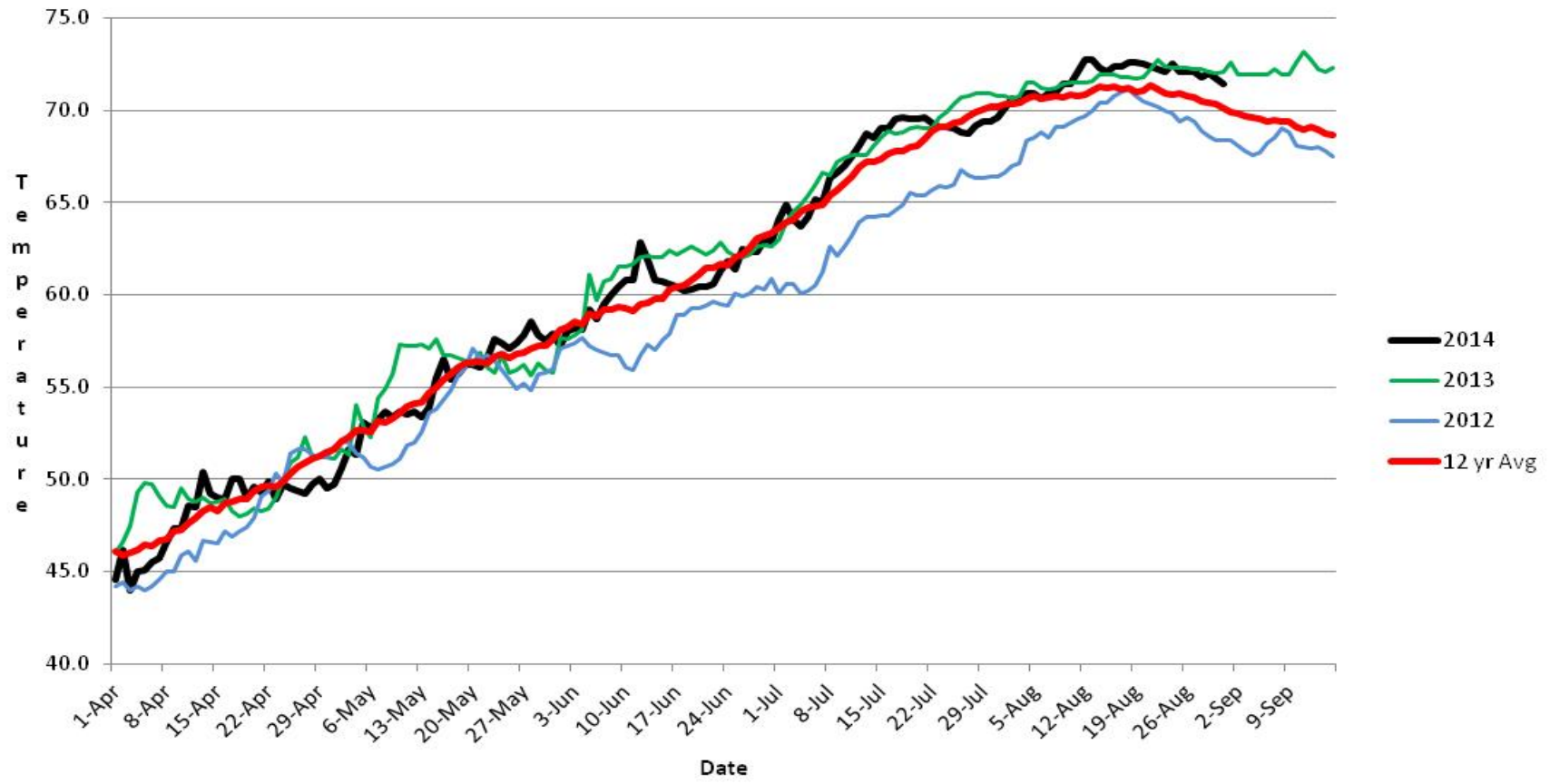
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

OPM John Day/Willow Creek Project

Date: \_\_\_ 27-Jan-15

### 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	40	5.5	
Mon	40	6.0	
Tues			
Wed	40	5.5	
Thur	40	5.5	
Fri	40	5.5	
Sat		6.0	
AVG:	<b>40</b>	AVG: <b>5.7</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	1.4	4.7	oos
Sun							
Mon	oos	oos	oos	oos	1.5	4.5	oos
Mon							
Tues	oos	oos	oos	oos		oos	oos
Tues							
Wed	oos	oos	oos	oos	1.6	oos	oos
Wed							
Thur	oos	oos	oos	oos	1.4	oos	oos
Thur							
Fri	oos	oos	oos	oos	1.5	oos	oos
Fri							
Sat	oos	oos	oos	oos	1.4	oos	oos
Sat							
AVG:	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>1.5</b>	<b>4.6</b>	<b>#DIV/0!</b>