

# FISHWAY STATUS REPORT

**Date:** 8/30/2014  
**Inspection Period:** 8/24 thru 8/30/2014

All JD Fishways are inspected twice per day during fish season, March. 1 - Nov. 31  
 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> 14	<b>Temperature:</b> 72 F
	<b>Out of Criteria</b>	<b>Limit</b>		<b>Secchi:</b> 5.1 Ft.
<b>NORTH FISHWAY</b>			In regular service. Five AWS pumps available since 4/11	
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>			In regular service with all three AWS turbines	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	MID setting	MID is normal for JDS	
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 8.5	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.19	
Bay 1 differential	0	1.0' - 2.0'	AVG 1.7	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.9	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0	
<b>JUVENILE PASSAGE</b>			JBS/SMF changed to bypass at switch gate due to water temp of 70 F on 7/31	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	Next monthly STS camera inspection scheduled for the 3 rd week of September	
Turbine trashrack drawdown	0	<1.5', wkly	Raking during week 8/25 produced minimal amount of visible debris	
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or more frequently if high river debris loads	
Spill volume	0	30%	30% 24 hrs spill since 7/22; will end on 8/31. TSW shutdown occurred on 8/28 per FPP	
Spill pattern	0	per FPP	TSW pattern through 8/28 and then North Spillway bulk pattern through 8/31	
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

**SMOLT MONITORING FACILITY**

**Operation:** SMF continues in bypass at switch gate due to water temp over 70 F. PSMFC sampling twice a week until the temp drops to 69.5 F; it is 71 F as of 9/03. JD Fisheries works regular 24/7 swing shift schedule as required by FPP; it will continue this until the end of sampling season on 9/15.

**Debris:** Moderate to light; primarily tumbleweeds with some sticks, branches, and wooden debris.

**Maintenance:** None

**Research:**

US Fish and Wildlife Service's pilot tagging of adult lamprey started at JD SMF on 7/14 and will continue as long as the fish are available. The tagged fish are transported and released at Ice Harbor for the Snake River dams passage research.

**Fallbacks:** AVG: 6 MAX: 6 MIN: 5 (6 hr. conditioning samples twice weekly at temps over 70 F.)

**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.

**Operations:**

JD North Fishway is in regular service and meeting the FPP criteria.

JD South Fishway in regular service and meeting the FPP criteria.

Two TSWs in spillway bays 18 & 19 were shut down for the season on 8/28 at approximately noon. Bulk spill pattern continues through 8/31, 2400 hrs.

**Maintenance:**

JD North AWS pumps - five out of total six are available for service since 4/11. AWS pump # 4 continues in OOS status due to its lower bearing issues.

JD Engineering/contractor continue with its repairs.

Calibration: 8/22/2014 All sensors were within the criteria of 0.3' .

JD South Fishway's bay 19 tailrace sensor was determined erratic/failed on 7/22 and TR'd immediately. JD Electrical found it clogged up by debris and cleaned it up on 7/30. Awaiting for a new sensor to replace it.

Gatewell Drawdown: 8/17 and 8/20. No units measured greater than 1.3 ft of differential for this reporting week.

**Research:**

JD Fisheries continues coordinating with research groups performing 2014 studies:

PSMFC/WDFW dam angling from the JD PH tailrace deck for pikeminnow underway; total YTD JD catch is 4,025 as of 8/31 which is a great result!

U of I Testing of JD North LPS (Lamprey Passage System) started in late June and continues very successful with a high diversion of adult lampreys.

2014 Adult Salmonids counting by Normandeau Ass. continues through October 31 as required by FPP.

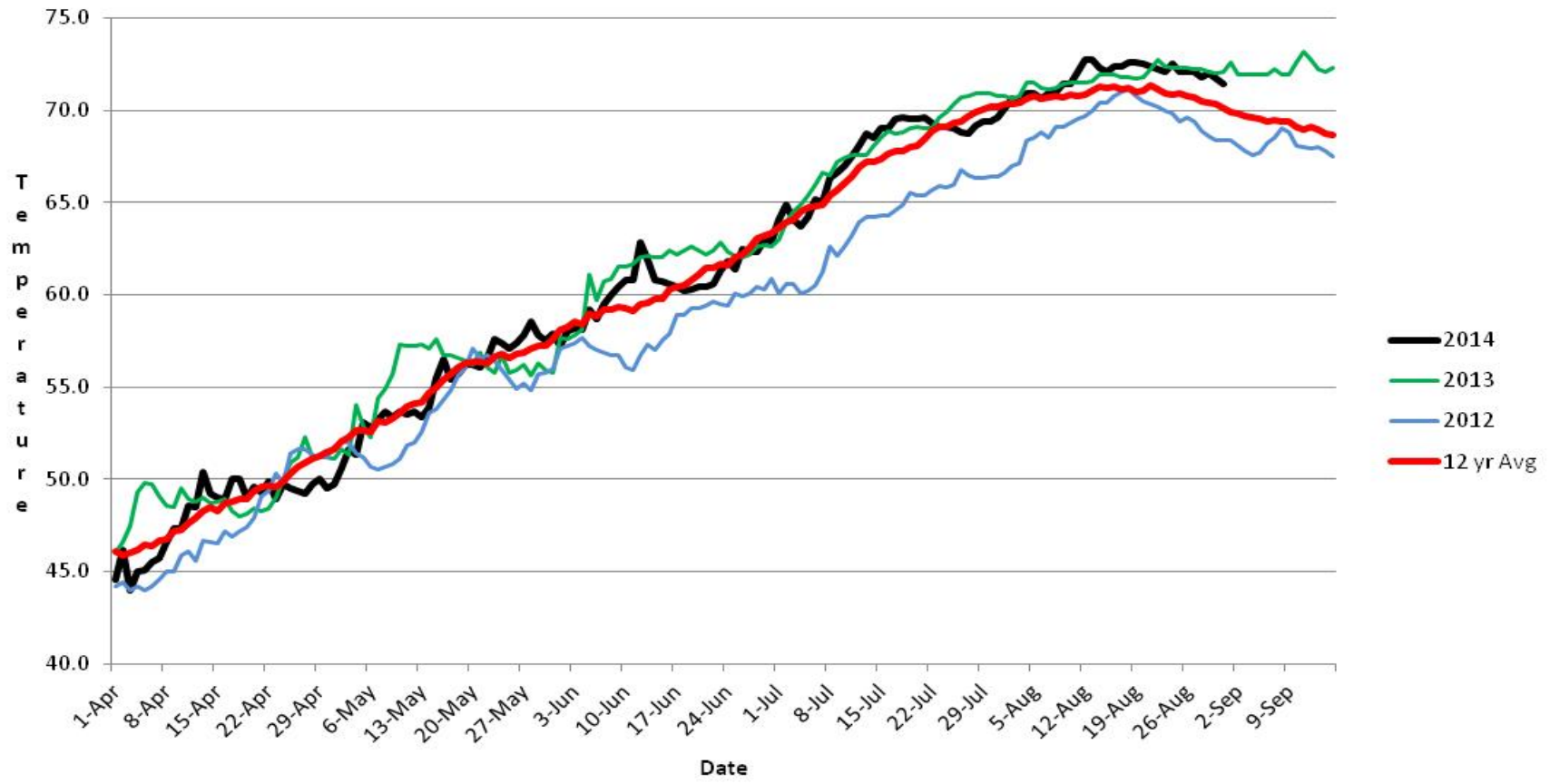
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Glen A. Smith PE

Date: \_\_\_ 2-Sep-14

OPM John Day/Willow Creek Project

### JDA SMF Water Temp



## JDA COLLECTION CHANNEL VELOCITY

**Date**    27-Aug-14

**By:**        pkr,maz

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	01:02.0	62	2.90
2 - 4	0:01:54	114	3.46
4 - 6	0:02:53	173	3.05
6 - 8	0:03:48	228	3.27
8 - 10	0:04:48	288	3.00
10 - 12	0:05:48	348	3.00
12 - 14	0:06:48	408	3.00
14 - 16	0:07:52	472	2.81
16 - 18	0:08:35	515	4.19

**3.19**









John Day Dam  
Avian Zones 2013





**John Day:**

	Temp:	Secchi:	Fallbacks	
Sun	72	5.0		
Mon	72	5.0		
Tues	72	5.0	5	
Wed	72	5.0		
Thur	72	5.0	6	6 hr condition sample
Fri	72	5.5		
Sat	72	5.5		
AVG:	<b>72</b>	AVG: <b>5.1</b>	AVG <b>6</b>	
			MAX <b>6</b>	
			MIN <b>5</b>	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.5	8.5	1.6	8.1	1.5	4.8	1.9	1.5
Sun	8.8	8.9	1.6	8.1	1.4	4.4	1.9	1.6
Mon	9.1	9.2	1.6	8.1	1.4	4.5	1.9	1.6
Mon	10.3	10.4	1.7	9.1	1.6	4.4	2.0	1.4
Tues	8.1	8.1	1.4	8.0	1.5	4.6	1.7	2.0
Tues	9.0	9.0	1.3	8.5	1.5	4.6	1.6	1.8
Wed	9.1	9.1	1.6	9.0	1.5	4.7	2.0	2.0
Wed	9.4	9.4	1.4	9.3	1.5	4.5	1.7	1.6
Thur	8.8	8.8	1.6	8.5	1.5	4.6	1.6	1.6
Thur	9.0	9.0	1.5	8.8	1.6	4.6	1.5	1.4
Fri	8.3	8.3	1.6	8.1	1.6	4.5	1.6	1.8
Fri	9.5	9.5	1.4	9.0	1.4	4.5	1.5	1.5
Sat	8.3	8.3	1.4	8.1	1.7	4.5	1.4	1.6
Sat	8.8	8.8	1.3	8.4	1.5	4.6	1.7	1.5
AVG:	<b>8.9</b>	<b>9.0</b>	<b>1.5</b>	<b>8.5</b>	<b>1.5</b>	<b>4.6</b>	<b>1.7</b>	<b>1.6</b>