

FISHWAY STATUS REPORT

Date: 12/13/2014
 Inspection Period: 12/7 thru 12/13/14

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.

	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: 7	Temperature: 46 F
	Out of Criteria	Limit		Secchi: 5.7 Ft.
NORTH FISHWAY			OOS for annual maintenance since 11/29, after 6 PM. RTS by 12/18/14.	
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 #DIV/0!	
SOUTH FISHWAY			In regular service with all three AWS turbines. Dewatering scheduled for 1/7/15.	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	High setting	HIGH since 11/1 to optimize the control section's flows for forebay > 265.0	
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 1.6	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.5	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.21	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.5	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.5	
JUVENILE PASSAGE			SMF successfully dewatered on 11/24. JBS continues in service through 12/15.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	JBS in service through 12/15. STSs removal starting on 12/16.	
Turbine trashrack drawdown	0	<1.5', wkly	Minimal amount of wooden debris during trashracks raking the week of 11/24.	
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or more frequently if high river debris loads	
Spill volume	OOS		On seal since 11/30.	
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP	Planned BPA Line 1 (MU1-4) outage started on 10/21. RTS is 12/5/14	
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operations: End of season dewatering completed on 11/24. 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 issues this year.

Research:

None

Fallbacks: AVG: #DIV/0! MAX: #DIV/0! MIN: #DIV/0! System in Primary By-pass

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.

Very high number of gulls, cormorants and grebes (> 500,) but it is apparent that they are primarily feeding on the abundant juvenile shad.

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 continues in service for kelts fallback protection through 12/15.

JD North Fishway OOS for annual maintenance since 11/29, after 6 PM. Intensive testing of AWS pumps by Engineering and contractor occurred 12/2-6.

As of 12/10 five out of six AWS pumps are available. Repair work on pump 4 continues; pump 3 has vibration issues and should be the last in service.

RTS is 12/18.

JD South Fishway in regular service and meeting the FPP criteria. Its dewatering is scheduled for 1/7/2015.

Maintenance:

BPA Line 1 (MU 1-4) planned/ replacement outage started on 10/21. RTS is 12/5/14.

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

COE Engineering/contractor continued with the intensive AWS pumps testing and repairs on 12/2-6.

Calibration: 12/10/2014 All sensors were within the criteria of 0.3' .

JD South Fishway's bay 1 & 19 tailrace failed back in July, 2014 and were TR'd immediately. Waiting for the new sensors (on order) to replace them.

JD Fisheries crew takes frequent manual measurements/ makes adjustments, which is more than satisfactory to meet the criteria this time of year.

Gatewell Drawdown: 12/11/2014.

No units measured greater than 0.9 ft of differential , debris loading is decreasing.

Research:

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

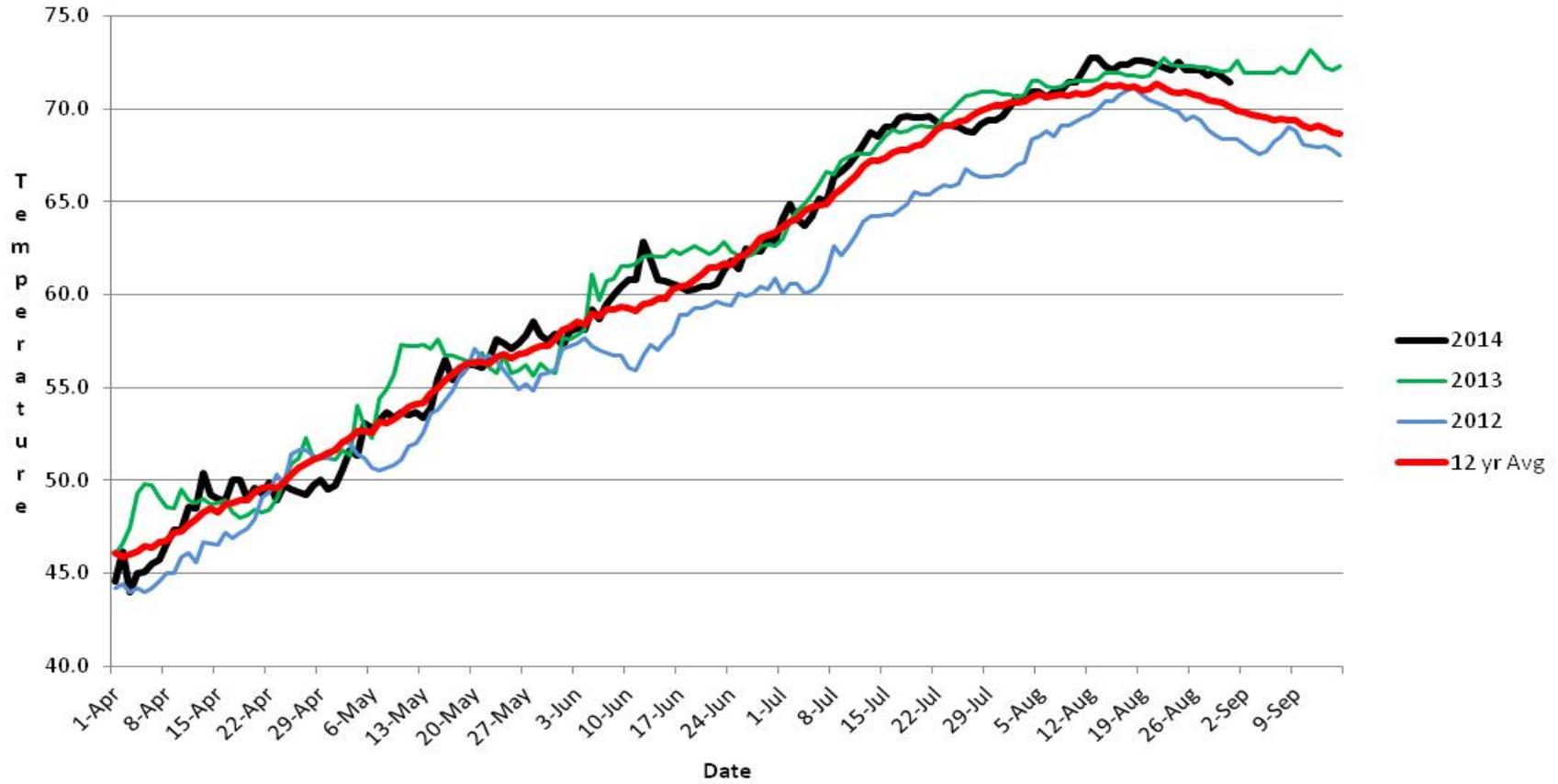
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

Date: ___ 14-Dec-14

OPM John Day/Willow Creek Project

JDA SMF Water Temp



JDA COLLECTION CHANNEL VELOCITY

Date	<u>7-Nov-14</u>
By:	<u>egg, pkr</u>

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	01:11.0	71	2.54
2 - 4	0:02:08	128	3.16
4 - 6	0:03:05	185	3.16
6 - 8	0:04:02	242	3.16
8 - 10	0:04:57	297	3.27
10 - 12	0:05:55	355	3.10
12 - 14	0:06:55	415	3.00
14 - 16	0:07:55	475	3.00
16 - 18	0:08:35	515	4.50

3.21

John Day Dam
Avian Zones 2013



John Day:

	Temp:	Secchi:	Fallbacks
Sun	46	5.5	
Mon	46	5.5	
Tues	45	6.0	
Wed	46	6.0	
Thur	46	6.0	
Fri	45	5.5	
Sat	45	5.5	
AVG:	46	AVG: 5.7	AVG #DIV/0!
			MAX #DIV/0!
			MIN #DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.3	8.3	1.6	8.7	oos	4.6	1.4
Sun					oos		
Mon	8.0	8.2	1.7	8.1	oos	4.6	1.5
Mon					oos		
Tues	8.4	8.4	1.6	8.4	oos	4.4	1.3
Tues					oos		
Wed	8.9	8.9	1.6	9.1	oos	4.6	1.5
Wed					oos		
Thur	8.6	8.6	1.6	8.3	oos	4.6	1.2
Thur					oos		
Fri	8.4	8.4	1.6	8.4	oos	4.5	1.4
Fri					oos		
Sat	8.7	8.6	1.7	8.6	oos	4.6	1.5
Sat					oos		
AVG:	8.5	8.5	1.6	8.5	#DIV/0!	4.6	1.4