


FISHWAY STATUS REPORT

Date: 12/27/2014
Inspection Period: 12/21 thru 12/27/2014

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: 6	Temperature: 45 F
	Out of Criteria	Limit		Secchi: 5.2 Ft.
NORTH FISHWAY			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	
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 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 9.0	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.19	RTS
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.5	
Entrance weir NE1	0	depth (≥ 8')	AVG 9.0	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.9	
JUVENILE PASSAGE			SMF OOS/dewatered since 11/24. JBS OOS since 12/18.	
Forebay/bypass conduit differential	N/A	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	N/A	visual inspect	STSs removal completed on 12/18.	
Turbine trashrack drawdown	N/A	<1.5', wkly		
Vert barrier screen drawdown	N/A	<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	N/A	per FPP		
Turbine Unit Priority	N/A	per FPP		
Turbine 1% Efficiency	N/A	per FPP		

SMOLT MONITORING FACILITY

Operations: End of season dewatering completed on 11/24. SMF 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; SCADA computer issue underway.

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 OOS since 12/18, when the STSs removal was completed.

JD North Fishway returned back to service on 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 in regular service and meeting the FPP criteria. Its dewatering is scheduled for 1/7/2015.

Maintenance:

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

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

JD South Fishway's bay 1 & 19 tailrace sensor failed back in July, 2014 and were TR'd immediately. Waiting for parts (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 then 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.

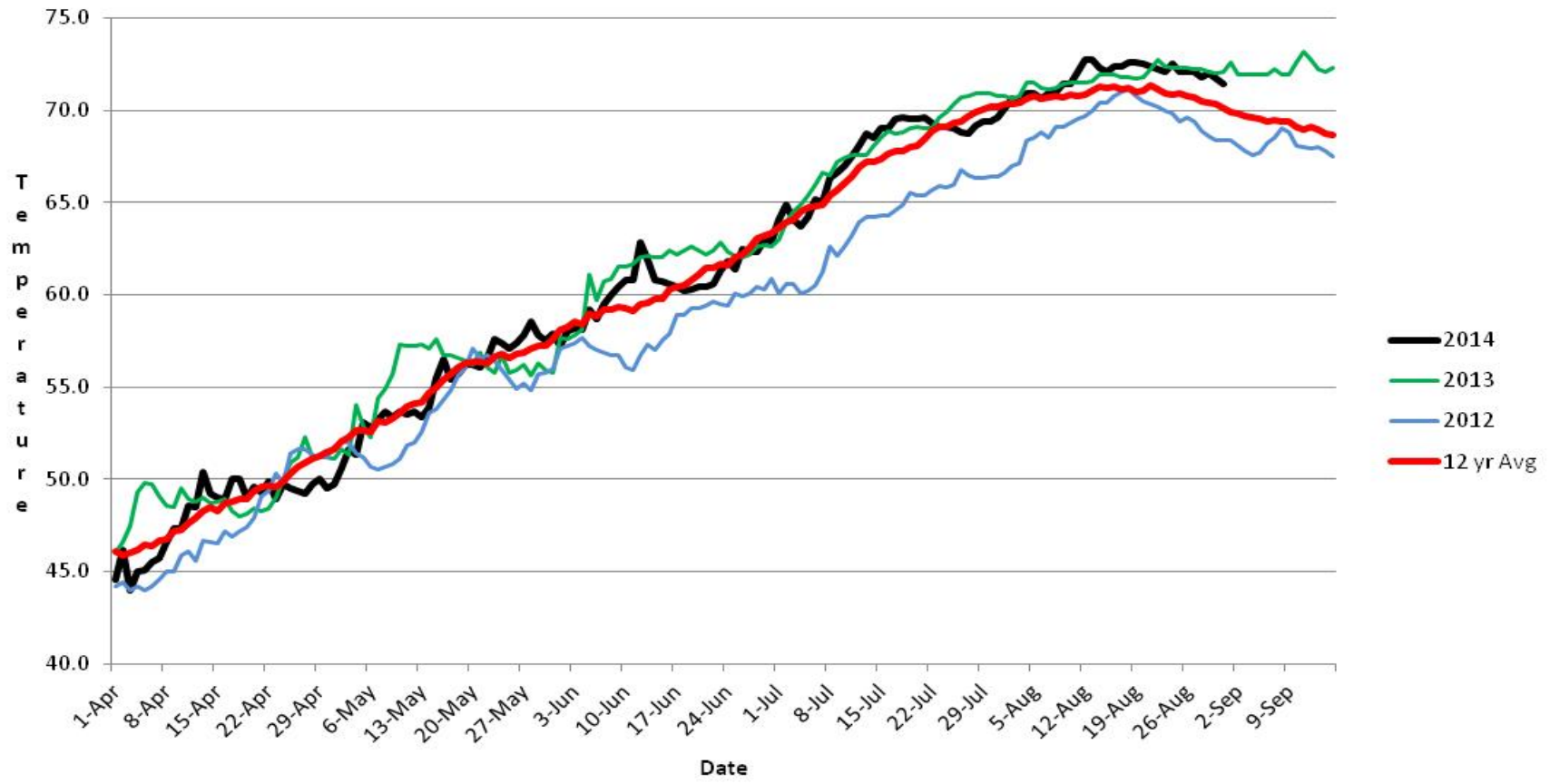
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

Date: ___ 7-Jan-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	45	5.5	
Mon	45	5.0	
Tues	45	6.0	
Wed	45	5.0	
Thur	46	5.0	
Fri	45	5.0	
Sat	45	5.0	
AVG:	45	AVG: 5.2	AVG #DIV/0!
			MAX #DIV/0!
			MIN #DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.8	8.8	1.4	9.0	oos	4.6	1.5
Sun					oos		
Mon	9.2	9.2	1.4	9.2	OOS	4.6	1.4
Mon							
Tues	8.7	8.7	1.5	8.7	1.6	4.5	1.4
Tues							
Wed	*	*	*	*	*	*	*
Wed							
Thur	9.1	9.1	1.4	9.2	1.4	4.6	1.4
Thur							
Fri	9.2	9.1	1.4	9.2	1.4	4.7	1.5
Fri							
Sat	8.7	8.7	1.5	8.9	1.5	4.6	1.7
Sat							
AVG:	9.0	8.9	1.4	9.0	1.5	4.6	1.5

* no inspection due to Holiday