

FISHWAY STATUS REPORT

Date: 11/1/2014
Inspection Period: 10/26 thru 11/01/2014

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.

	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: 14	Temperature: 61 F
	Out of Criteria	Limit		Secchi: 5.0 Ft.
NORTH FISHWAY			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	
SOUTH FISHWAY			In regular service with all three AWS turbines	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	High setting	changed to HIGH due to Forebay > 265.0 on 11/1, to optimize the control section's flows	
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 8.7	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.11	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.6	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.7	
JUVENILE PASSAGE			SMF continues in bypass for the full flow PIT tags detections through 24 November	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	October STS/VBS camera inspection 10/20-25: no problems were found	
Turbine trashrack drawdown	0	<1.5', wkly	Intake trashracks raked and continued gatewells debris removal this week, 10/27 - 30	
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	1.6 kcfs	Bay 2 at 1.6 kcfs daylight only through November	
Spill pattern	0	per FPP	Bay 2 at 1.6kcfs to provide additional attraction to JD North Entrance	
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: Sampling season ended on 9/15; SMF continues in bypass for the full flow PIT tags detections until 24 November.

JD Fisheries crew works an abbreviated 18 hrs/7 swing shift schedule as required by FPP.

Debris: N/A due to bypass / DA Separator OOS.

Maintenance: Annual winter maintenance activities are planned to commence in December. The Sampling Building's piping has been already winterized by JD Fisheries crew, with Mr. Kovalchuk, PSMFC biologist assisting. Cleanup inside and outside of the Building 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:

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

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

Bay 2, 1.6 kcfs daylight spill from Bay 2 continues daily, September through November to provide additional attraction to JD North Entrance.

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 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: 10/20/2014 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 a 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: 10/26 & 10/30/2014. No units measured greater than 1.3 ft of differential , debris loading is increasing.

Research:

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

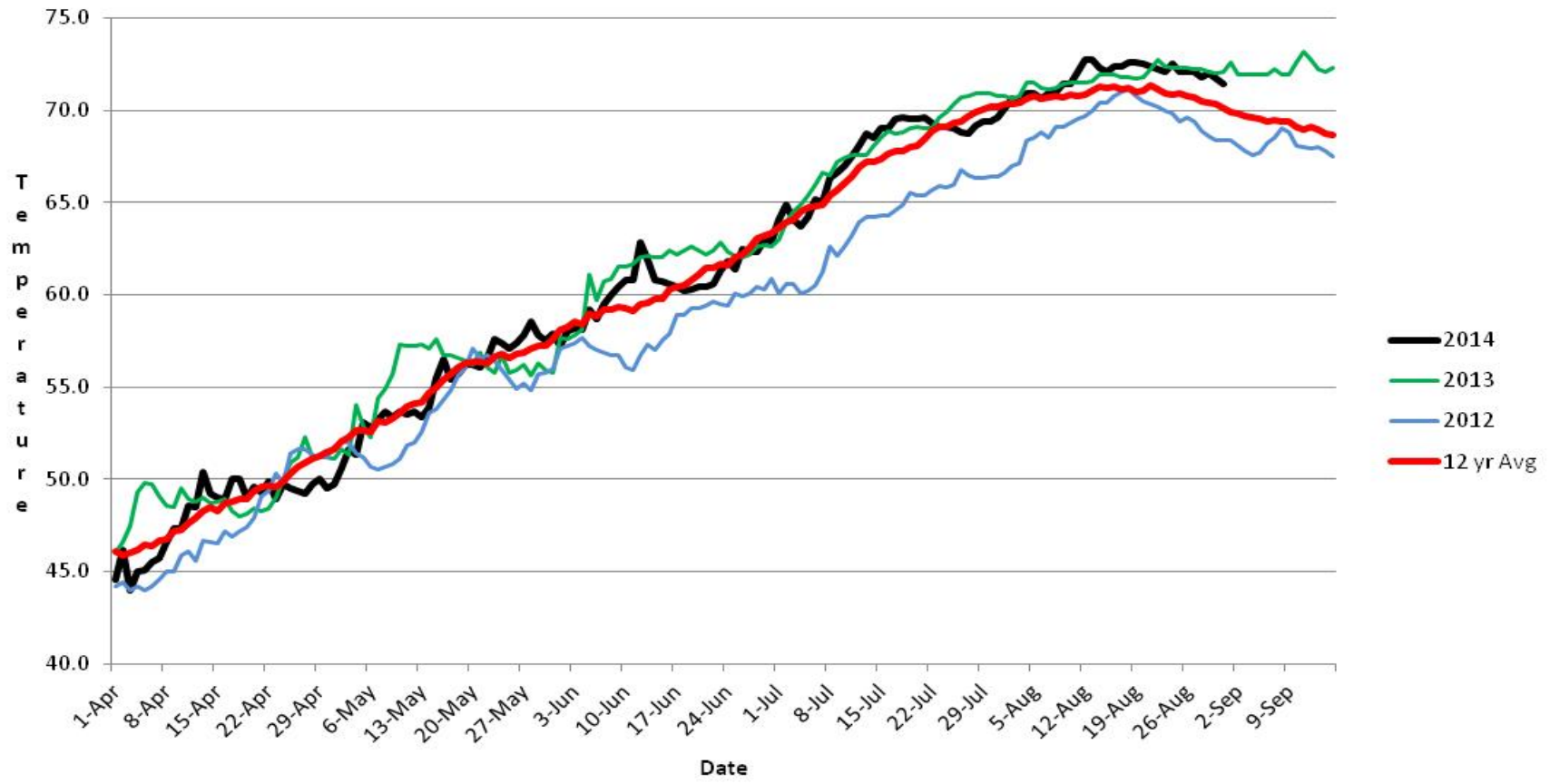
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

Date: ___ 2-Nov-14

OPM John Day/Willow Creek Project

JDA SMF Water Temp



JDA COLLECTION CHANNEL VELOCITY

Date	<u>24-Oct-14</u>
By:	<u>MZ,prk</u>

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	01:13.0	73	2.47
2 - 4	0:02:10	130	3.16
4 - 6	0:03:11	191	2.95
6 - 8	0:04:17	257	2.73
8 - 10	0:05:15	315	3.10
10 - 12	0:06:14	374	3.05
12 - 14	0:07:13	433	3.05
14 - 16	0:08:11	491	3.10
16 - 18	0:08:52	532	4.39

3.11

2014 JDA Piscivorous Bird Counts

F=foraging, NF=non-foraging

Date	Session	Time (24 hr)	Zone	Gull		Cormorant		Caspian tern		AWPE		Grebe		Total birds in zone	Observer
				F	NF	F	NF	F	NF	F	NF	F	NF		
26-Oct-14	1	7:30	PHFB	0	0	0	16	0	0	0	0	110	0	126	egg
26-Oct-14	1	7:30	SWFB	0	400	0	0	0	0	0	0	0	0	400	egg
26-Oct-14	1	7:30	PH1	0	0	3	0	0	0	0	0	0	0	3	egg
26-Oct-14	1	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	egg
26-Oct-14	1	7:30	PH3	1	0	0	0	0	0	0	0	0	0	1	egg
26-Oct-14	1	7:30	SW1	0	0	5	0	0	0	0	0	0	0	5	egg
26-Oct-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	egg
26-Oct-14	1	7:30	SW3	0	0	0	35	0	0	0	0	0	0	35	egg
26-Oct-14	2	14:00	PHFB	0	0	0	0	0	0	0	0	120	0	120	pete
26-Oct-14	2	14:00	SWFB	0	400	0	0	0	0	0	0	0	0	400	pete
26-Oct-14	2	14:00	PH1	85	0	22	0	0	0	0	0	0	0	107	pete
26-Oct-14	2	14:00	PH2	26	0	0	0	0	0	0	0	0	0	26	pete
26-Oct-14	2	14:00	PH3	5	0	0	0	0	0	0	0	0	0	5	pete
26-Oct-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	pete
26-Oct-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	pete
26-Oct-14	2	14:00	SW3	3	0	0	0	0	0	0	0	0	0	3	pete
27-Oct-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	200	200	egg
27-Oct-14	1	7:30	SWFB	0	500	0	0	0	0	0	0	0	0	500	egg
27-Oct-14	1	7:30	PH1	0	0	8	0	0	0	0	0	0	0	8	egg
27-Oct-14	1	7:30	PH2	0	0	0	1	0	0	0	0	0	0	1	egg
27-Oct-14	1	7:30	PH3	5	0	0	0	0	0	0	0	0	0	5	egg
27-Oct-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	egg
27-Oct-14	1	7:30	SW2	0	4	0	0	0	0	0	0	0	0	4	egg
27-Oct-14	1	7:30	SW3	0	7	0	67	0	0	0	0	0	0	74	egg
27-Oct-14	2	14:00	PHFB	0	180	0	0	0	0	0	0	0	189	369	pete
27-Oct-14	2	14:00	SWFB	0	270	0	0	0	0	0	0	0	0	270	pete
27-Oct-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	pete
27-Oct-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	pete
27-Oct-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	pete
27-Oct-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	pete
27-Oct-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	pete
27-Oct-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	pete
28-Oct-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	220	220	egg
28-Oct-14	1	7:30	SWFB	0	500	0	0	0	0	0	0	15	0	515	egg

John Day Dam
Avian Zones 2013



John Day:

	Temp:	Secchi:	Fallbacks:
Sun	61	5.0	
Mon	61	5.0	
Tues	61	5.0	
Wed	61	5.0	
Thur	61	5.0	
Fri	61	5.0	
Sat	61	5.0	
AVG:	61	AVG: 5.0	AVG: #DIV/0!
			MAX: #DIV/0!
			MIN: #DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.4	8.4	1.6	8.4	1.5	4.5	1.5
Sun	8.5	8.5	1.5	8.5	1.4	4.5	1.4
Mon	8.2	8.2	1.5	8.2	1.6	4.5	1.5
Mon	8.2	8.2	1.5	8.2	1.6	4.5	1.4
Tues	8.6	8.6	1.6	8.6	1.6	4.6	1.5
Tues	8.6	8.6	1.5	8.6	1.5	4.6	1.4
Wed	9.0	9.1	1.3	9.1	1.4	4.6	1.4
Wed	9.2	9.3	1.5	9.3	1.5	4.6	1.4
Thur	9.0	9.1	1.3	9.0	1.5	4.5	1.4
Thur	8.5	8.6	1.4	8.6	1.7	4.6	1.4
Fri	8.7	8.8	1.3	8.8	1.6	4.6	1.4
Fri	8.6	8.7	1.2	8.7	1.6	4.6	1.4
Sat	8.6	8.7	1.5	8.6	1.5	4.4	1.5
Sat	8.7	8.8	1.6	8.7	1.4	4.6	1.5
AVG:	8.6	8.7	1.5	8.7	1.5	4.6	1.4