

# FISHWAY STATUS REPORT

Date: 7/26/2014  
 Inspection Period: 7/20 thru 7/26/2014

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.



**US Army Corps  
of Engineers**  
Portland District

## JOHN DAY DAM

JD/WC Project-Fisheries  
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 Rufus, Oregon 97050  
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John Day Dam	Inspections	Criteria	Total Number of Inspections:	Temperature:
	Out of Criteria	Limit	14	69 F
			Secchi:	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	Returned to regular High setting for Salmon passage on 7/24	
Count station differential	0	≤ 0.3'		
Weir crest depth (DS gauge)	0	1.0' ± 0.1'	Changed back to regular setting of 1.0' for Salmon on 7/21	
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'	Changed back to regular 1.0' setting for Salmon on 7/16	
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 3.25	
Bay 1 differential	0	1.0' - 2.0'	AVG 1.8	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	1	depth (≥ 8')	AVG 8.4	7.8' on 7/22 due to erratic Tailrace level sensor, which was TR'd
Entrance weir NE2	1	depth (≥ 8')	AVG 8.4	7.8' on 7/22 due to erratic Tailrace level sensor, which was TR'd
<b>JUVENILE PASSAGE</b>			JBS/SMF in regular service since 3/30.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	Next monthly underwater camera inspection scheduled for the 3rd week of August	
Turbine trashrack drawdown	0	<1.5', wkly	Next monthly MU intake trashracks raking scheduled for the 4th week of August	
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or more frequently if river debris loads are high	
Spill volume	0	30/40 %	Per the PNNL experimental block design, changing every two days.	
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

## SMOLT MONITORING FACILITY

**Operation:** SMF is in sampling mode since 3/31 AM. Daily 24 hrs smolt sampling by PSMFC crew since 4/1.

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.

River Temps are approaching 70 F and the limited sampling schedule is likely to be implemented soon to protect the downstream migrants from unnecessary stress.

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

**Maintenance:** None

### Research:

PNNL summer/ subyearling collection and tagging completed by 7/ 13. Monitoring of passing fish with hydrophones continues through the end of July.

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: 155 MAX: 175 MIN: 118

## 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.

USDA hazing from a boat started on 4/17; one 8 hrs shift, 7 days a week will continue through the end of July. A slight increase in numbers of gulls PM after hazing stops, but almost all are flying downstream of the avian tailrace BRZ grid. Gull predation at JD continues to be estimated as minimal.

124 out of 125 total primary lines are intact/ in place.

### Operations:

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

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

### 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: 7/25/2014 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 will replace it soon; until then JD Fisheries crew will adjust NE 1 & 2 weirs' elevation manually.

Gatewell Drawdown: 7/14 and 7/20 No units measured greater than 1.3 ft of differential for this reporting week.

Condition of smolts sampled at SMF was normal for this time of year, with no signs of elevated descaling during the entire week.

### Research:

JD Fisheries continues coordinating with research groups performing 2014 studies:

Tribal collection of adult lamprey at JD began on 6/12; due to high catches in 2014, trapping is slated to end in the next few days.

PSMFC/WDFW dam angling from the JD PH tailrace deck for pikeminnow underway; total YTD JD catch is 3,244 as of 7/20 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.

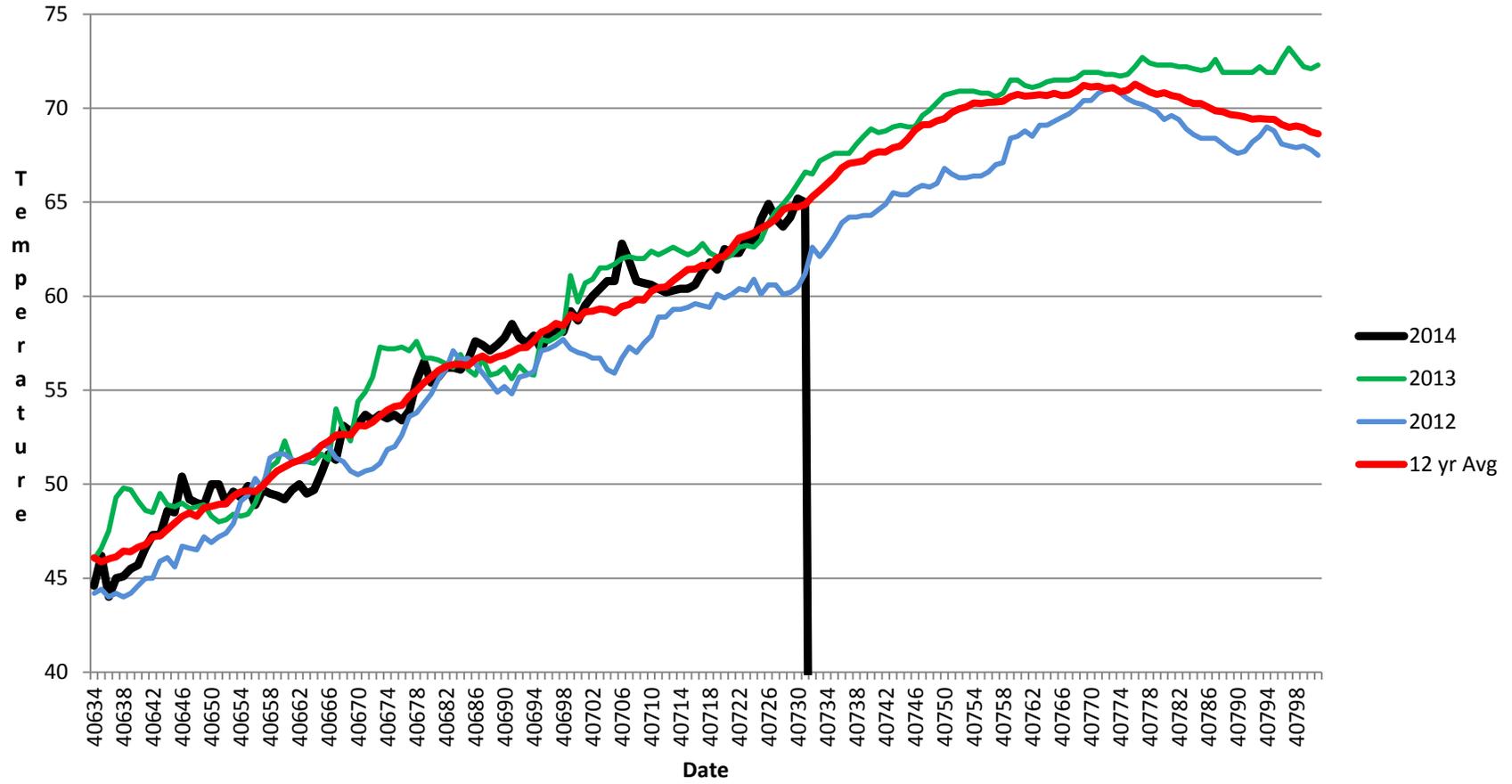
PNNL Summer /Subyearling collection and tagging of fish at JD SMF completed by 7/13. Monitoring of marked fish with hydrophones continues through the end of July. Dismantling of gear and office trailers from forebay deck is scheduled for 8/4-8/11.

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.

OPM John Day/Willow Creek Project

# JDA SMF Water Temp



## JDA COLLECTION CHANNEL VELOCITY

<b>Date</b>	12-Jul-14
<b>By:</b>	pkr

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	01:09.0	9-Mar-00	2.61
2 - 4	0:02:03	2-May-00	3.33
4 - 6	0:02:54	22-Jun-00	3.53
6 - 8	0:03:55	22-Aug-00	2.95
8 - 10	0:04:52	18-Oct-00	3.16
10 - 12	0:05:47	12-Dec-00	3.27
12 - 14	0:06:43	6-Feb-01	3.21
14 - 16	0:07:45	9-Apr-01	2.90
16 - 18	0:08:27	21-May-01	4.29

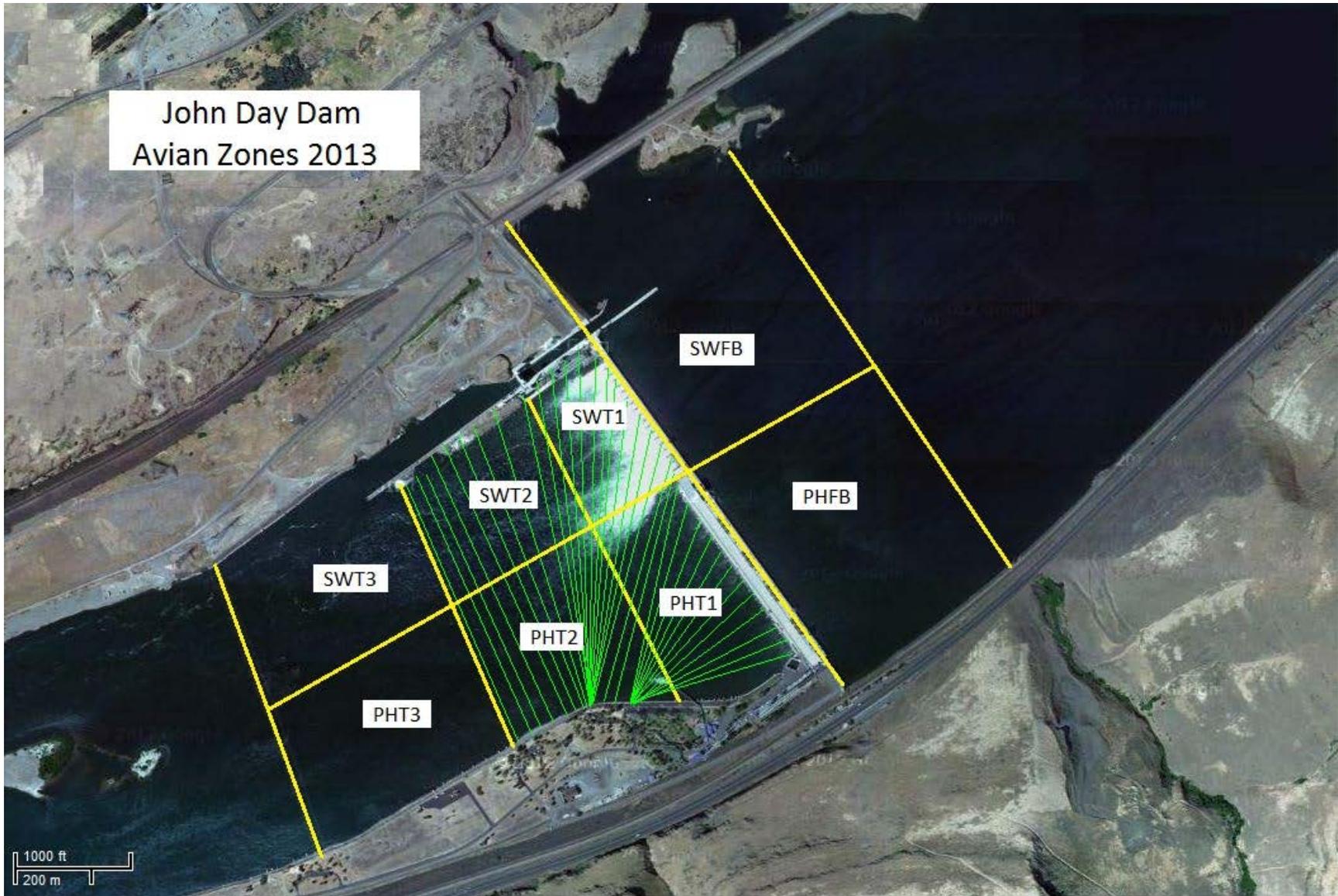
3.25





24-Jul-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Jul-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Jul-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Jul-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Jul-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Jul-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	1	7:30	PHFB	4	0	0	0	0	0	0	0	0	13	17	0	0	DEK
25-Jul-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	1	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	1	7:30	PH2	2	0	0	0	0	0	0	0	0	0	2	0	0	DEK
25-Jul-14	1	7:30	PH3	0	0	0	0	0	0	5	0	0	0	5	0	0	DEK
25-Jul-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	1	7:30	SW3	0	0	0	0	0	0	26	0	0	0	26	0	0	DEK
25-Jul-14	2	14:00	PHFB	1	0	0	0	0	0	0	0	0	13	14	0	0	DEK
25-Jul-14	2	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Jul-14	2	14:00	SW3	0	0	0	0	0	0	17	0	0	0	17	0	0	DEK
26-Jul-14	1	7:30	PHFB	2	0	0	0	0	0	0	0	0	15	17	0	0	DEK
26-Jul-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	1	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	1	7:30	PH2	2	0	0	0	0	0	0	0	0	0	2	0	0	DEK
26-Jul-14	1	7:30	PH3	0	0	0	0	0	0	2	0	0	0	2	0	0	DEK
26-Jul-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	1	7:30	SW3	0	0	0	0	0	0	2	0	0	0	2	0	0	DEK
26-Jul-14	2	14:00	PHFB	12	0	0	0	0	0	0	0	0	15	27	0	0	DEK
26-Jul-14	2	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	2	14:00	PH3	3	0	0	0	0	0	11	0	0	0	14	0	0	DEK
26-Jul-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Jul-14	2	14:00	SW3	0	0	0	0	0	0	5	0	0	0	5	0	0	DEK

John Day Dam  
Avian Zones 2013



**John Day:**

	Temp:	Secchi:	Fallbacks
Sun	69	5.0	159
Mon	69	5.0	175
Tues	69	5.0	158
Wed	69	5.0	153
Thur	69	5.0	163
Fri	69	5.5	161
Sat	69	5.0	118
AVG:	<b>69</b>	AVG: <b>5.1</b>	AVG <b>155</b>
			MAX <b>175</b>
			MIN <b>118</b>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.4	8.4	1.4	8.0	1.4	4.6	1.7	1.6
Sun	8.0	8.0	1.4	8.3	1.4	4.5	1.7	1.5
Mon	8.2	8.3	1.4	8.1	1.6	4.6	1.8	1.3
Mon	8.2	8.2	1.6	8.5	1.5	4.5	1.8	1.1
Tues	7.8	7.8	1.4	8.0	1.5	4.5	1.7	1.2
Tues	8.0	8.1	1.4	8.7	1.4	4.6	1.7	1.2
Wed	8.6	8.8	1.7	8.5	1.5	4.7	2.0	1.0
Wed	8.9	8.9	1.7	8.5	1.4	4.6	2.0	2.0
Thur	8.5	8.4	1.7	8.2	1.5	4.5	2.0	1.0
Thur	8.7	8.5	1.6	8.2	1.4	4.6	1.9	1.1
Fri	8.2	8.2	1.1	8.4	1.5	4.6	1.4	1.6
Fri	8.5	8.5	1.5	8.3	1.6	4.6	1.8	1.6
Sat	8.5	8.4	1.4	9.3	1.4	4.5	1.7	1.4
Sat	8.8	8.8	1.4	9.6	1.4	4.6	1.7	1.4
AVG:	<b>8.4</b>	<b>8.4</b>	<b>1.5</b>	<b>8.5</b>	<b>1.5</b>	<b>4.6</b>	<b>1.8</b>	<b>1.4</b>