

# FISHWAY STATUS REPORT

Date: 7/19/2014  
 Inspection Period: 7/13 thru 7/19/2014

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: 14</b>	<b>Temperature: 69 F</b>
	<b>Out of Criteria</b>	<b>Limit</b>		<b>Secchi: 5.0 Ft.</b>
<b>NORTH FISHWAY</b>			In regular service. Five AWS pumps available since 4/11.	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	MID setting	Temporary Mid setting for Sockeye	
Count station differential	0	≤ 0.3'		
Weir crest depth (DS gauge)	0	1.3' ± 0.1'	Temporary 1.3' for shad passage since 5/22.	
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 Salmon setting on 7/16	
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.4	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.25	
Bay 1 differential	0	1.0' - 2.0'	AVG 1.7	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.5	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.5	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.5	
<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	Two bad STS were found during camera inspection on 7/15 and were replaced with spare	
Turbine trashrack drawdown	0	<1.5', wkly	MU intake trashrack raking scheduled for the next week, starting 7/21	
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: 208 MAX: 239 MIN: 177

## 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: 7/11/2014 All sensors were within the criteria of 0.3' .

Gatewell Drawdown: 7/6 and 7/10 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.

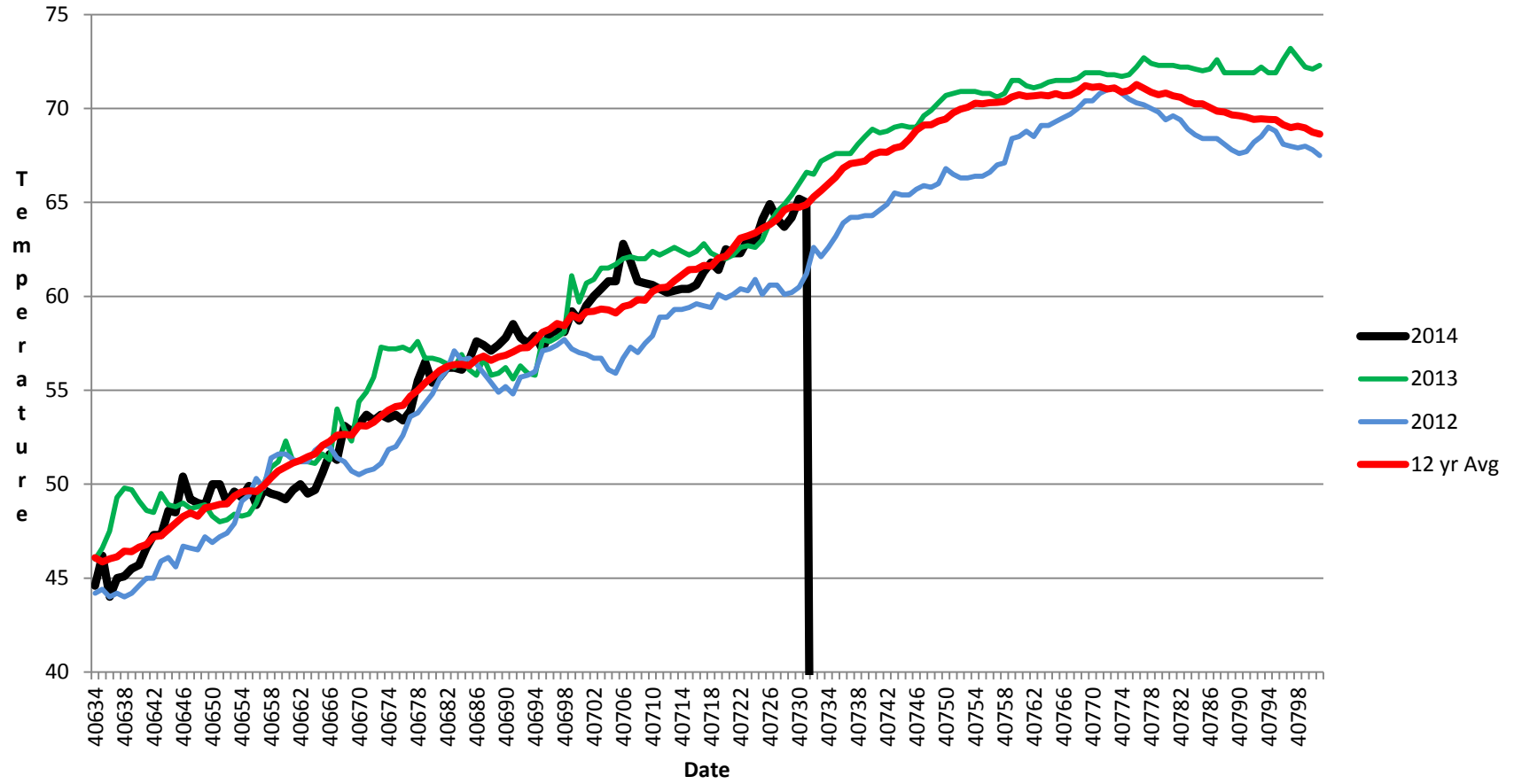
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Glen A. Smith PE

Date: \_\_\_ 21-Jul-14

OPM John Day/Willow Creek Project

# JDA SMF Water Temp



## JDA COLLECTION CHANNEL VELOCITY

**Date**     12-Jul-14  
**By:**        pkp

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**

## 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		
6-Jul-14	1-Jan-00	7:30	PHFB	0	28	0	0	0	0	3	0	6	6	12-Feb-00	PKR
6-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	SW1	5	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	1-Jan-00	7:30	SW3	4	0	0	0	0	0	0	0	0	0	4-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	PHFB	0	10	0	0	0	0	10	0	6	6	1-Feb-00	PKR
6-Jul-14	2-Jan-00	14:00	SWFB	0	1	0	0	0	0	0	0	0	0	1-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	SW2	5	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
6-Jul-14	2-Jan-00	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	PHFB	0	16	0	0	0	0	14	0	5	5	9-Feb-00	PKR
7-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	1-Jan-00	7:30	SW3	1	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	PHFB	0	1	0	0	0	0	0	0	1	0	2-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	SWFB	0	1	0	0	0	0	0	0	3	4	8-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	SW1	0	1	0	0	0	0	0	0	0	0	1-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	SW2	0	1	0	0	0	0	0	0	0	0	1-Jan-00	PKR
7-Jul-14	2-Jan-00	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	PHFB	0	1	0	0	0	0	1	0	8	7	17-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR

8-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	SW1	1	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	1-Jan-00	7:30	SW3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	PHFB	0	4	0	0	0	0	7	0	4	4	19-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	SWFB	0	0	0	0	0	0	1	0	0	0	1-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	SW1	5	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	SW2	5	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
8-Jul-14	2-Jan-00	14:00	SW3	17	0	0	0	0	0	0	0	0	0	17-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	PHFB	0	2	0	0	0	0	1	0	4	4	11-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	SW1	2	0	0	0	0	0	0	0	0	0	2-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	SW2	3	0	0	0	0	0	0	0	0	0	3-Jan-00	PKR
9-Jul-14	1-Jan-00	7:30	SW3	3	0	0	0	0	0	0	0	0	0	3-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	PHFB	0	1	0	0	0	0	1	0	4	4	10-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	SWFB	0	0	0	0	0	0	0	0	1	0	1-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
9-Jul-14	2-Jan-00	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	PHFB	0	18	0	0	0	0	4	0	4	4	30-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	SW1	7	0	0	0	0	0	0	0	0	0	7-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	1-Jan-00	7:30	SW3	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	PHFB	0	8	0	0	0	0	0	0	6	5	19-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR

10-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	SW1	2	0	0	0	0	0	0	0	0	0	0	2-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
10-Jul-14	2-Jan-00	14:00	SW3	7	0	0	0	0	0	0	0	0	0	0	7-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	PHFB	0	4	0	0	0	0	0	0	9	7	20-Jan-00	PKR	
11-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	SW1	5	0	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	1-Jan-00	7:30	SW3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	PHFB	0	1	0	0	0	0	0	0	9	7	17-Jan-00	PKR	
11-Jul-14	2-Jan-00	14:00	SWFB	0	3	0	0	0	0	0	0	0	0	0	3-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	SW1	1	0	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	SW2	1	0	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
11-Jul-14	2-Jan-00	14:00	SW3	1	0	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	PHFB	0	8	0	0	0	0	0	0	0	16	24-Jan-00	PKR	
12-Jul-14	1-Jan-00	7:30	SWFB	0	0	0	0	0	0	0	1	0	1	2	2-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	SW2	1	0	0	0	0	0	0	0	0	0	0	1-Jan-00	PKR
12-Jul-14	1-Jan-00	7:30	SW3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	PHFB	0	5	0	0	0	0	0	0	0	0	0	5-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	SWFB	0	1	0	0	0	0	0	0	0	10	11	11-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR
12-Jul-14	2-Jan-00	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	0-Jan-00	PKR



John Day Dam  
Avian Zones 2013





**John Day:**

	Temp:	Secchi:	Fallbacks
Sun	68	5.0	230
Mon	68	5.0	204
Tues	68	5.0	177
Wed	69	5.0	203
Thur	69	5.0	205
Fri	69	5.0	239
Sat	69	5.0	201
AVG:	<b>69</b>	AVG: <b>5.0</b>	AVG <b>208</b>
			MAX <b>239</b>
			MIN <b>177</b>

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.2	8.2	1.3	8.0	1.4	4.6	1.6	1.5
Sun	8.7	8.7	1.4	8.6	1.5	4.5	1.6	1.5
Mon	9.4	9.4	1.3	9.2	1.4	4.5	1.6	1.4
Mon	8.6	8.6	1.3	8.2	1.5	4.5	1.6	1.3
Tues	8.1	8.1	1.3	8.0	1.5	4.6	1.6	1.4
Tues	8.6	8.6	1.4	8.2	1.4	4.5	1.6	1.6
Wed	8.2	8.2	1.4	8.1	1.5	4.6	1.7	1.5
Wed	8.4	8.4	1.4	8.1	1.6	4.6	1.7	1.4
Thur	8.6	8.6	1.4	8.4	1.5	4.5	1.6	1.4
Thur	8.9	8.8	1.4	8.6	1.5	4.6	1.6	1.5
Fri	8.3	8.3	1.4	8.0	1.6	4.6	1.7	1.5
Fri	8.6	8.6	1.5	8.5	1.4	4.5	1.8	1.7
Sat	8.0	8.0	1.4	8.1	1.4	4.5	1.9	1.2
Sat	8.5	8.5	1.5	8.9	1.4	4.6	1.6	1.5
AVG:	<b>8.5</b>	<b>8.5</b>	<b>1.4</b>	<b>8.4</b>	<b>1.5</b>	<b>4.6</b>	<b>1.7</b>	<b>1.5</b>