

FISHWAY STATUS REPORT

Date: 3/17/2013
 Inspection Period: 03/10 thru 03/16/2013

JOHN DAY DAM



US Army Corps
 of Engineers
 Portland District

JD/WC Project-Fisheries
 P.O. Box 564
 Rufus, Oregon 97050
 Phone: 541-506-7860

Fishway inspected twice per day during walk throughs; frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	Temperature:
	Out of Criteria	Limit	14	42.3 F
			Comments	Secchi: 5.2 Ft.
NORTH FISHWAY			Returned to service 3/12/13 without AWS pumps; orifice flow only continues	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	Per forebay		
Count station differential	0	≤ 0.3'		
Weir crest depth	0	1.0' ± 0.1'		
Entrance differential	0	1.0' - 2.0'	AVG #DIV/0!	AWS pumps ETR is 3/29/13
SOUTH FISHWAY			In regular service with all three AWS turbines since 2/12/13	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	Per forebay		
Count station differential	0	≤ 0.3'		
Weir crest depth	0	1.0' ± 0.1'		
South entrance differential	0	1.0' - 2.0'	AVG 1.3	
Entrance weir SE1	1	depth (≥ 8')	AVG 9.4	OOC due to low tailrace, below 158' as necessary for Deschutes
Collection channel velocity	0	1.5 - 4 fps	ft/sec 3.36	park maintenance work; was coordinated by RCC in advance
Bay 1 differential	0	1.0' - 2.0'	AVG 1.9	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.2	
Entrance weir NE1	1	depth (≥ 8')	AVG 8.2	see above
Entrance weir NE2	1	depth (≥ 8')	AVG 8.2	see above
JUVENILE PASSAGE			JBS channel re-watered 3/13; returning to regular service with all STS before 1 April	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.4	
Submersible traveling screens	0	visual inspect	STSs installation is commencing on 3/22, all will be completed by 1 April.	
Turbine trashrack drawdown	0	<1.5', wkly	No discrepancies.	
Vert barrier screen drawdown	0	<1.5', wkly	No discrepancies	
Spill volume	0	per FPP		
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation: SMF OOS since 11/30/12. ETR is 3/28; the juvenile salmonids' daily sampling starting on 4/1/13.

STSs installation by JD Structural crew is starting on 3/22.

Debris: NA

Maintenance: winter maintenance/PM activities continue.

SMF CCTV replacement is in planning stage; the original system installed in 1998 is barely usable and its components have been failing frequently.

JD Structural completed repairs of three JBS/SMF leaking expansion joints; JBS collection channel was rewatered on 3/13.

Research: No fish collections are planned at JD SMF for 2013.

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

123 avian lines are properly installed; two are currently missing. JD Structural/ Resources Maintenance crews re-installed one powerhouse line on 3/1.

Gull hazing by USDA boat crews is scheduled to commence in JD tailrace the week of 4/15/13.

Operations:

JD North Fishway returned to service without the AWS pumps, on orifice flow only on 3/12. ETR for three AWS pumps is 3/29; Olsson Electric continues installation work on all six new AWS pumps.

JD South fishway entrances' weirs at lower limit due to the tailwater level below 158' on 3/10. Low river level was necessary for the Deschutes park's maintenance work and was coordinated by RCC in advance.

JBS collection channel was re-watered on 3/13. JBS will be in regular service, with all STSs installed by 4/1 as required by FPP.

New construction:

Contractor / Construction Office are working on bringing of all 6 new JDN AWS pumps into service soon. ETR for three pumps is 3/29.

Slayden completed the second year of JD North entrance improvements. JDN Entrance's clearance was released 3/8.

Two JD TSWs are undergoing installation by a contractor; they will be a permanent part of JD juvenile fish passage configuration in 2013 on.

JD South automated lamprey trap installation completed on 2/12/13. The trap's hoist will be installed outside of fishway in March.

JD North prototype Lamprey Passage System's (LPS) installation was successfully completed by University of Idaho crews by 3/12/13.

Maintenance:

JD North count station's crowder repaired and operable by JDM/JDE. JD South CS window completed; new limit switches were installed by JDE.

MU intake raking crane returned to service on 12/5/12. Pre-season intake trashracks raking is scheduled for the week of 3/18.

STS winter maintenance by JD Maintenance crews is underway.

Gatewell draw down: No STSs yet. ETR in late March 2013.

Calibration: 3/7/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

JD Resources/JD Fisheries-- repaired/replaced JD North tailwater staff gauge on 2/25.

Research:

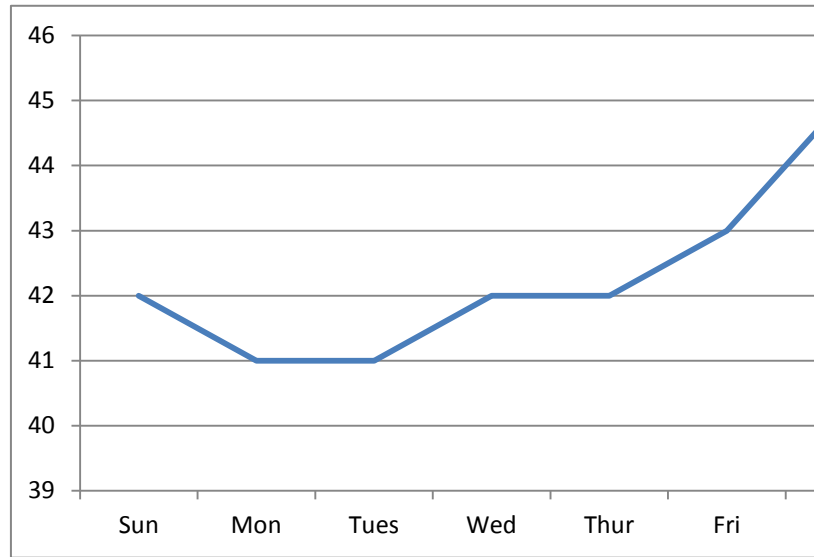
No fish research or fish counting taking place at JD since October 31.

JD South Counting Station' automated lamprey trap in-water installation complete on 2/12; the trap's hoist will be installed outside of fishway in March.

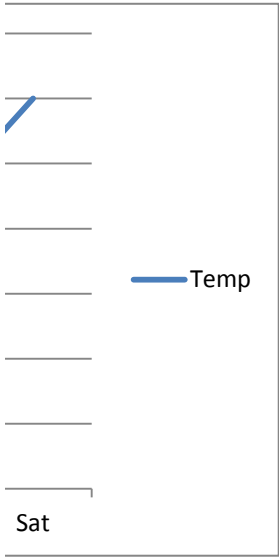
JD North prototype Lamprey Passage System's (LPS) installation was successfully completed by University of Idaho crews by 3/12/13.

JD Fisheries coordinating with U of I crews for the Adult Salmonids Radio telemetry's equipment set up, ETR is late April '13.

River Temperature



	Temp	
Sun	42	
Mon	41	
Tues	41	
Wed	42	
Thur	42	
Fri	43	
Sat	45	



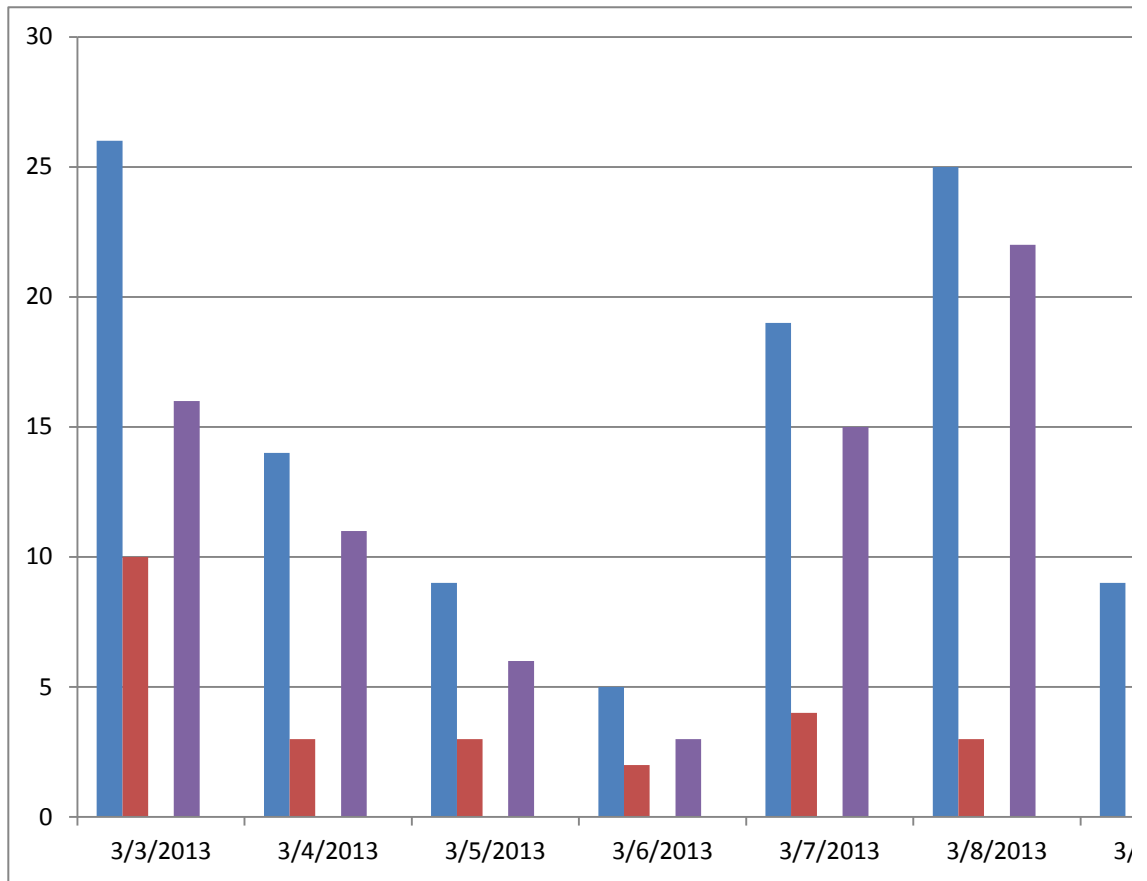
JDA COLLECTION CHANNEL VELOCITY

Date 15-Mar-13
By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:30	90	2.00
2 - 4	0:02:27	147	3.16
4 - 6	0:03:20	200	3.40
6 - 8	0:04:17	257	3.16
8 - 10	0:05:13	313	3.21
10 - 12	0:06:09	369	3.21
12 - 14	0:07:10	430	2.95
14 - 16	0:08:03	483	3.40
16 - 18	0:08:44	524	4.39

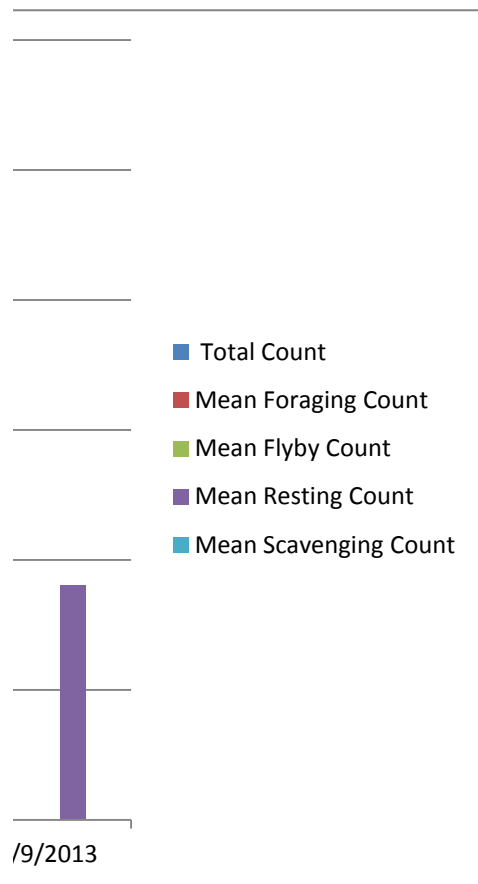
3.36

Bird Count by Activity for week ending 3/6

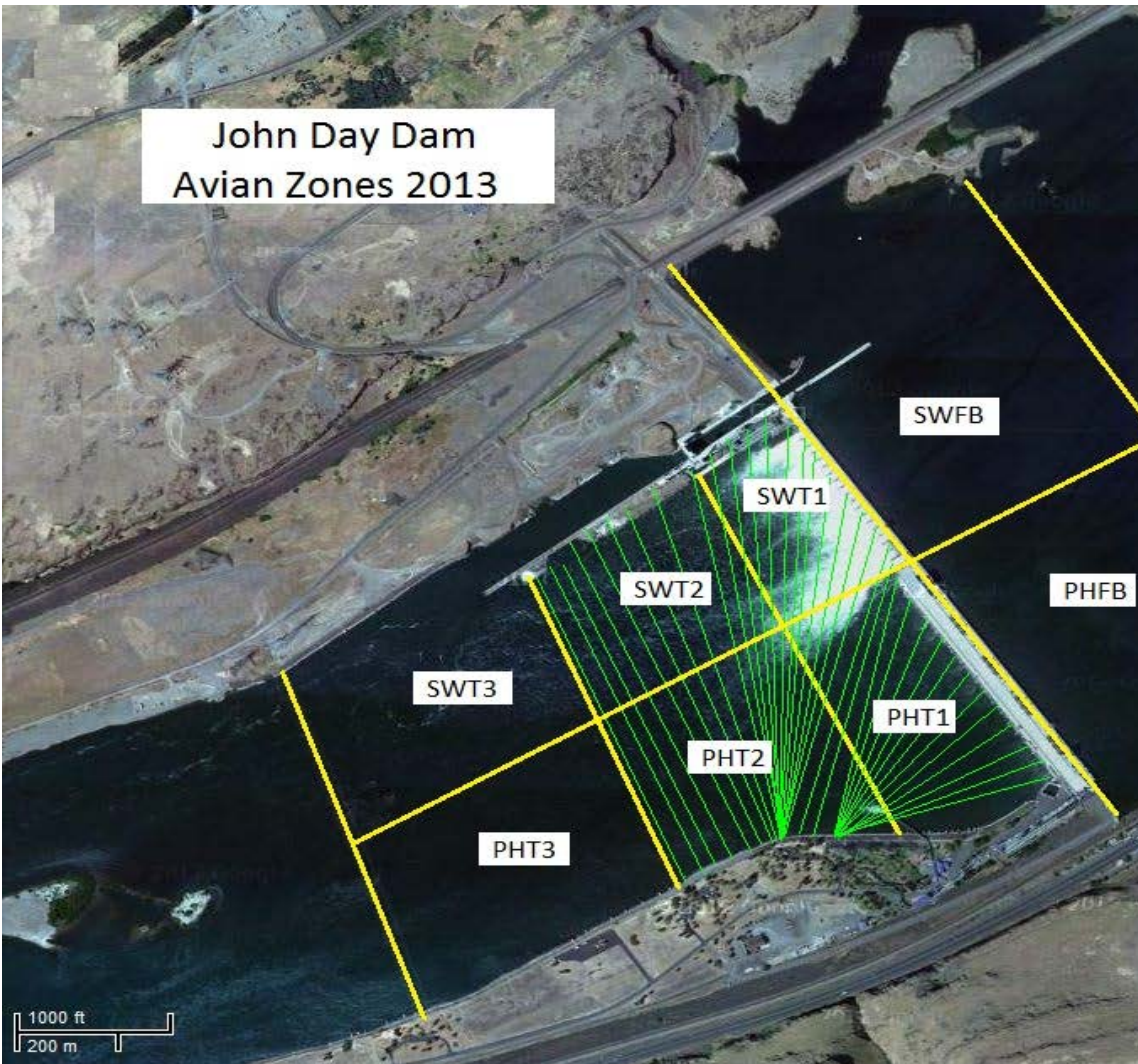


Date	Total Count	Mean Foraging Count	Mean Flyby Count	Mean Resting Count	Mean Scavenging Count
3/3/2013	26	10	0	16	0
3/4/2013	14	3	0	11	0
3/5/2013	9	3	0	6	0
3/6/2013	5	2	0	3	0
3/7/2013	19	4	0	15	0
3/8/2013	25	3	0	22	0
3/9/2013	9	0	0	9	0

09/2013



John Day Dam
Avian Zones 2013





John Day:

	Temp:	Secchi:	Fallbacks
Sun	42	5.5	na
Mon	41	5.5	na
Tues	41	5.5	na
Wed	42	5.0	na
Thur	42	5.0	na
Fri	43	5.0	na
Sat	45	5.0	na
AVG:	42.3	5.2	AVG #DIV/0!
			MAX #DIV/0!
			MIN #DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.5	8.5	1.3	9.8	OOS	OOS	1.7	1.2
Sun	7.6	7.6	1.1	7.7	OOS	OOS	1.5	1.1
Mon	8.7	8.7	1.4	8.8	OOS	OOS	1.9	1.2
Mon	8.2	8.2	1.4	8.4	OOS	OOS	1.8	1.4
Tues	8.0	8.0	1.4	10.1	OOS	OOS	1.9	1.5
Tues	8.2	8.2	1.2	9.9		OOS	1.9	1.3
Wed	8.2	8.1	1.3	9.5		OOS	1.9	1.3
Wed	8.2	8.1	1.4	9.4		3.5	1.8	1.2
Thur	8.1	8.2	1.3	9.6		4.6	1.8	1.2
Thur	8.2	8.3	1.0	9.8		4.6	1.8	1.1
Fri	8.3	8.2	1.2	9.9		4.6	2.0	1.2
Fri	8.2	8.1	1.3	9.8		4.5	2.0	1.2
Sat	8.1	8.3	1.3	9.7		4.6	2.0	1.2
Sat	8.4	8.5	1.3	9.8		4.6	2.0	1.1
AVG:	8.2	8.2	1.3	9.4	#DIV/0!	4.4	1.9	1.2