

FISHWAY STATUS REPORT

Date: 4/21/2013
 Inspection Period: 4/14 thru 4/20/13

JOHN DAY DAM



**US Army Corps
of Engineers**
Portland District

JD/WC Project-Fisheries
 P.O. Box 564
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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	48.4 F
			Secchi:	3.4 Ft.
NORTH FISHWAY			In regular service, with three AWS pumps since 4/3/13. Five operational since 4/09/13	
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	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 since 2/12/13	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS	
Count station differential	0	≤ 0.3'		
Weir crest depth	0	1.0' ± 0.1'		
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 9.6	
Collection channel velocity	0	1.5 - 4 fps	ft/sec 3.26	
Bay 1 differential	0	1.0' - 2.0'	AVG 1.9	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.8	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.8	
JUVENILE PASSAGE			JBS placed in Sampling mode at 07:00hrs on 3/31/2013.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	STSs camera inspection complete on 4/18.	
Turbine trashrack drawdown	0	<1.5', wkly	Monthly MU intake trashracks raking scheduled for week of 4/29	
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	per FPP	Spill for fish passage started on 4/10	
Spill pattern	0	per FPP	None-critical bay 13 unable to operate so far due to its control/ PLC issues	
Turbine Unit Priority	0	per FPP	MU Priority with two TSWs 4/10 through 8/31	
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation: SMF in regular sampling mode since 3/31/13. Manned 24/7 thru 9/15 by COE personnel. PSMFC biologists performing daily sampling.

All necessary STSs were installed by 3/28.

PDS screen cleaner was returned to service as planned on 4/1, after JD Electrical verified its settings under flow conditions.

Debris: Light with mostly small beaver-generated sticks and tumbleweeds.

Maintenance: No issues. All winter maintenance/PM activities successfully completed by 4/1/13.

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

Research: None. No fish collections are planned for 2013.

Fallbacks: AVG: 24 MAX: 30 MIN: 14

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

123 avian lines are properly installed. Two lines are currently missing; a spillway/TSW line broke on 4/12/13. JD Management preparing a plan for the missing lines replacement before 2014 passage season.

Daily, 8 hrs gull hazing shifts by USDA boat crew started at JD tailrace on 4/17. Effective so far.

Operations:

JD North Fishway in regular service with three AWS pumps operational since 4/2. Five pumps operational since 4/9; JDN is meeting the optimal entrance/FPP criteria of 1.5'.

JD South Fishway in regular service with all three AWS turbines; it is meeting the optimal entrances' criteria of 1.5'.

JD Structural crew completed the STSs' camera inspections on 4/18. Two bad screens were found, removed and replaced with working spares.

None-critical JD spillway bay 13 unable to operate due to issues with its control/PLC. Its flow is being distributed between the two adjacent bays.

New construction:

The last of six JD North AWS pumps, # 5's completion is delayed by contractor/Construction Office; this pumps is non-critical/ always spare.

Two permanent JD TSWs were completed by a contractor on time; both are in regular service since 4/10 AM as required by FPP.

Kudos to JD Structural crew for their last minute assistance/mods to the closure gate !

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

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

Maintenance:

JD Electrical has been working on the spillway bay 13 control/PLC, ETR 4/25.

Gatewell draw down: Measurements made on 4/14. All units were within established limits.

Calibration: 4/18/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

Research:

Fish counting began at both adult ladders on 4/1 under contract with Normandeau Associates; there were no problems with the startup.

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 April.

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

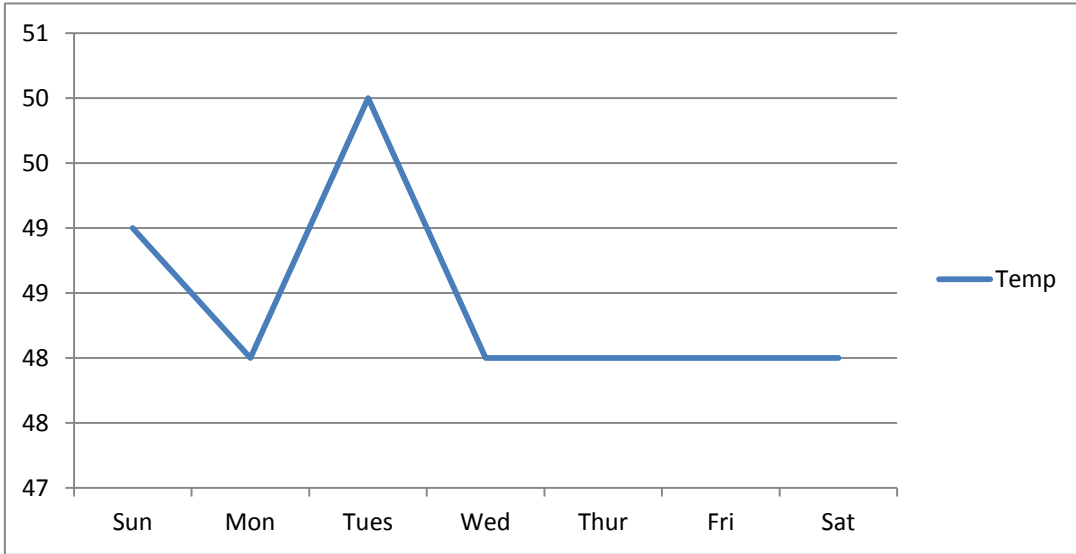
JD Fisheries coordinating with U of I crews for the Adult Salmonids Radio telemetry's equipment set up, ETR is late April '13.

Glen A. Smith PE

Date: _____

OPM John Day/Willow Creek Project

River Temperature



Day	Temp
Sun	49
Mon	48
Tues	50
Wed	48
Thur	48
Fri	48
Sat	48

JDA COLLECTION CHANNEL VELOCITY

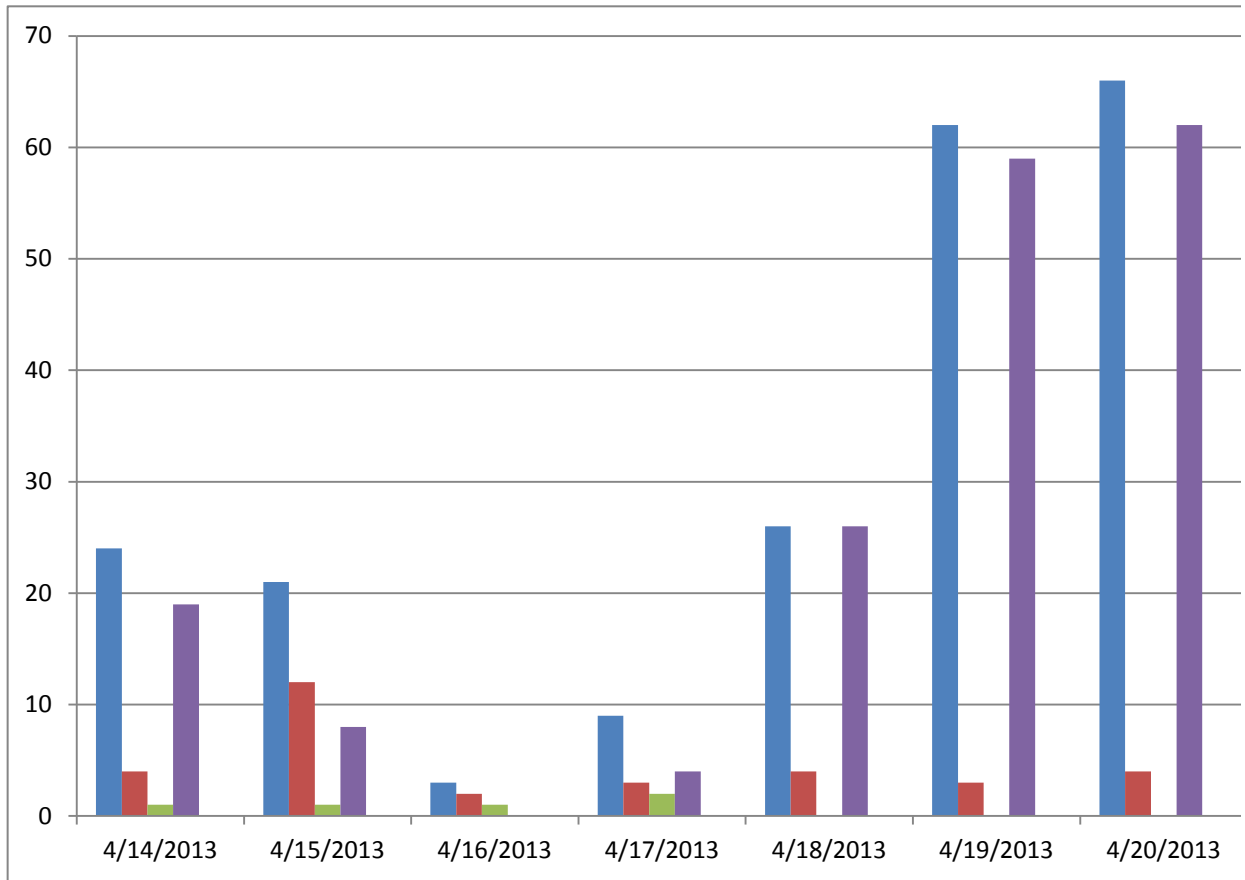
Date 30-Mar-13

By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:33	93	1.94
2 - 4	0:02:31	151	3.10
4 - 6	0:03:28	208	3.16
6 - 8	0:04:27	267	3.05
8 - 10	0:05:29	329	2.90
10 - 12	0:06:23	383	3.33
12 - 14	0:07:22	442	3.05
14 - 16	0:08:22	502	3.00
16 - 18	0:09:02	542	4.50

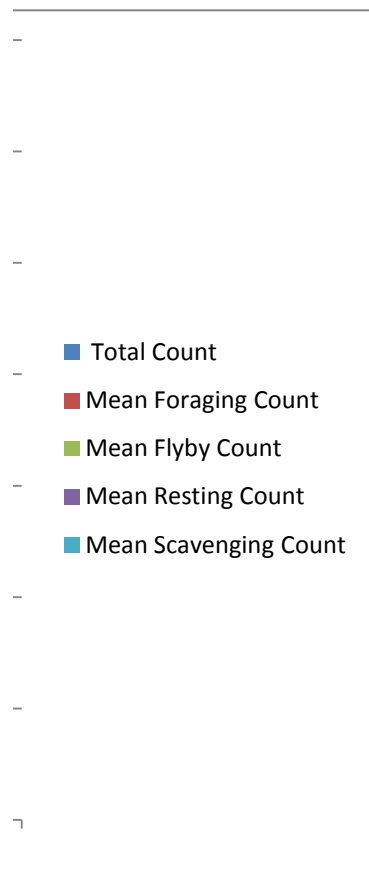
3.26

Bird Count by Activity for week ending 4/20/13



Date	Total Count	Mean Foraging Count	Mean Flyby Count	Mean Resting Count	Mean Scavenging Count
4/14/2013	24	4	1	19	0
4/15/2013	21	12	1	8	0
4/16/2013	3	2	1	0	0
4/17/2013	9	3	2	4	0
4/18/2013	26	4	0	26	0
4/19/2013	62	3	0	59	0
4/20/2013	66	4	0	62	0

20/2013



John Day Dam
Avian Zones 2013





John Day:

	Temp:	Secchi:	Fallbacks
Sun	49	3.5	14
Mon	48	4.0	24
Tues	50	4.0	26
Wed	48	3.0	22
Thur	48	3.0	30
Fri	48	3.0	26
Sat	48	3.0	25
AVG:	48.4	3.4	AVG 24
			MAX 30
			MIN 14

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	9.3	9.4	1.4	10.1	1.4	4.6	1.8	1.4
Sun	9.5	9.7	1.4	9.8	1.5	4.6	1.8	1.4
Mon	9.3	9.2	1.4	10.1	1.5	4.4	1.9	1.7
Mon	9.6	9.2	1.4	10.1	1.5	4.6	1.8	1.5
Tues	8.7	8.8	1.4	10.0	1.5	4.6	1.8	1.4
Tues	9.2	9.1	1.5	10.1	1.5	4.3	1.8	1.5
Wed	8.2	8.0	1.6	8.1	1.5	4.6	2.0	1.4
Wed	8.5	8.5	1.4	10.0	1.6	4.7	1.9	1.3
Thur	8.7	8.8	1.4	9.9	1.5	4.6	1.9	1.5
Thur	8.3	8.0	1.3	8.5	1.7	4.6	1.7	1.4
Fri	9.1	9.1	1.4	9.8	1.4	4.6	1.9	1.3
Fri	8.2	8.2	1.4	8.6	1.7	4.5	1.8	1.4
Sat	8.6	8.3	1.4	10.0	1.4	4.5	1.9	1.5
Sat	8.4	8.6	1.4	9.9	1.5	4.6	1.9	1.3
AVG:	8.8	8.8	1.4	9.6	1.5	4.6	1.9	1.4