

FISHWAY STATUS REPORT

Date: 6/2/2013
Inspection Period: 5/26 thru 6/1/2013

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

All JD Fishways are 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: 14	Temperature: 56.6 F
	Out of Criteria	Limit		Secchi: 4.1 Ft.
NORTH FISHWAY			In regular service with three AWS pumps since 4/3/13. Six operational since 5/20/13	
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	1.3' ± 0.1'	Shad passage criterion of 1.3' commenced on 5/22	
Entrance differential	0	1.0' - 2.0'	AVG 1.6	
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	1.3' ± 0.1'	Shad passage criterion of 1.3' commenced on 5/22	
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 9.9	
Collection channel velocity	0	1.5 - 4 fps	ft/sec 3.35	
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 9.0	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0	
JUVENILE PASSAGE			JBS/SMF continues in regular service, in sampling mode	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.5	
Submersible traveling screens	0	visual inspect	STSs camera inspection complete 5/22, 1 minor mesh damage found and repaired	
Turbine trashrack drawdown	0	<1.5', wkly	MU intake trashracks raking complete on 5/30; modest amount of small wood debris	
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	per FPP	Spill for fish passage started on 4/10; alternating 30/ 40 % levels same as 2012	
Spill pattern	0	per FPP		
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. PDS screen rake continues in regular service without any issues.

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: 25 MAX: 36 MIN: 14

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

123 avian lines are properly installed. Two lines are currently missing; 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; ongoing and effective so far.

Overall, the JD gull abundance / predation is small and under control.

Operations:

JD North Fishway in regular service with three AWS pumps operational since 4/2. Six pumps operational since 5/20; JDN is meeting the optimal entrance/FPP criteria of 1.5'. One adult chinook trapped between CS picketed leads reported on 5/22; JD Fisheries immediately closed/ eliminated netting gaps and verified proper fit of picketed leads. Attempting to net the trapped fish with dip nets.

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

All JD Spillway bays are in regular service per FPP pattern requirement.

New construction:

The last of six JD North AWS pumps, # 5, was completed and returned to regular service on 5/20.

Maintenance:

There were no major maintenance issues during this report period.

Gatewell draw down: Measurements made on 5/26 and 5/29. All units were within established limits.

Calibration: 5/31/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

Research:

WDFW dam angling crew commenced NPM removal from JD PH tailrace on 5/1. Fishing has been slow ; 46 fish caught to date. Will continue through the end of August.

Fish counting at both JD Fishways ongoing as required by FPP.

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 June.

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

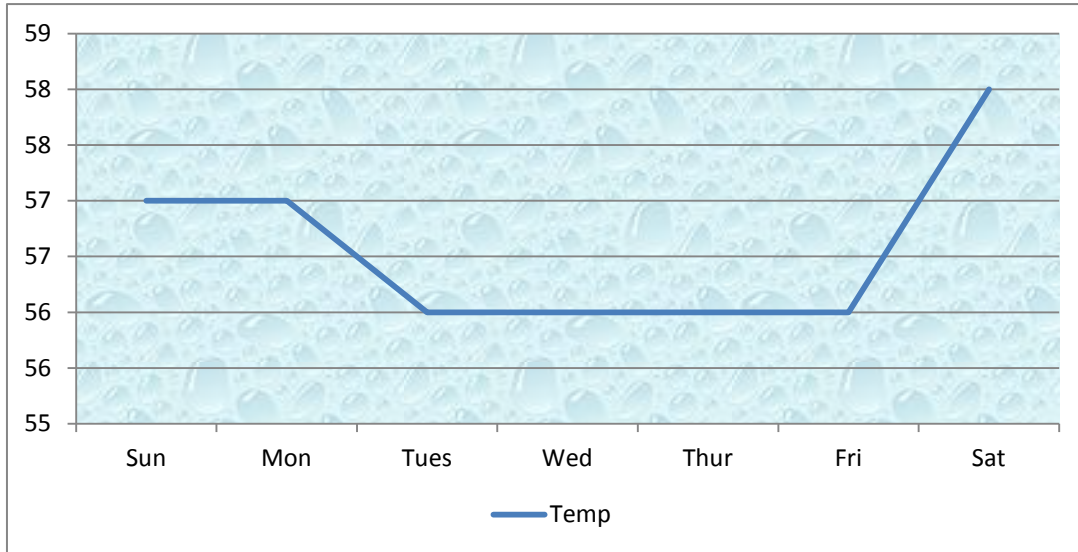
Adult Salmonids Radio telemetry equipment/antennas' set up completed at both JD fishways, by University of Idaho crew by early May; detecting adult spring chinook which were tagged at Bonneville Dam.

Glen A. Smith PE

OPM John Day/Willow Creek Project

Date: _____

River Temperature



Day	Temp
Sun	57
Mon	57
Tues	56
Wed	56
Thur	56
Fri	56
Sat	58

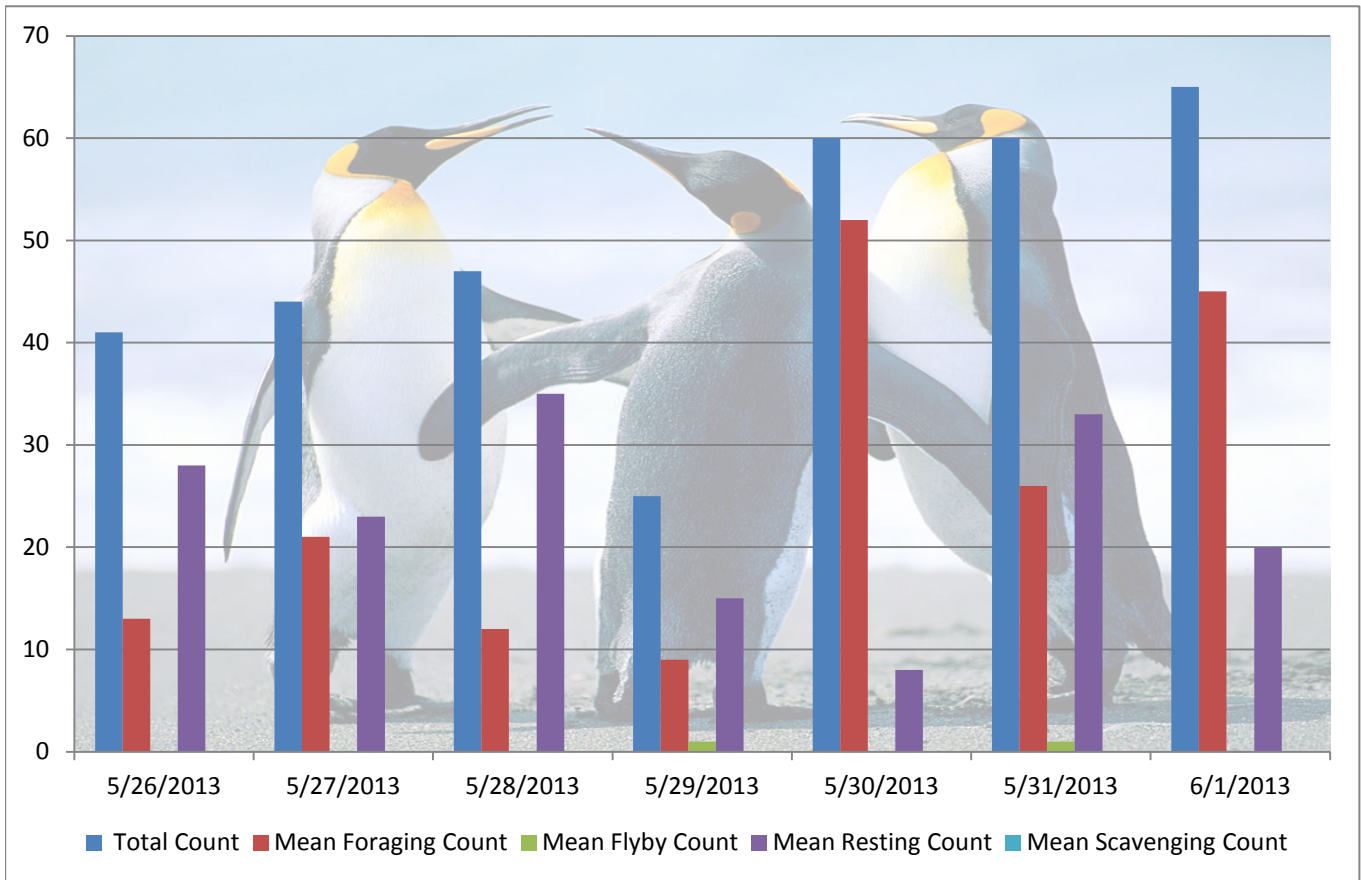
JDA COLLECTION CHANNEL VELOCITY

Date 26-May-13
By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:26	86	2.09
2 - 4	0:02:11	131	4.00
4 - 6	0:03:06	186	3.27
6 - 8	0:04:05	245	3.05
8 - 10	0:05:01	301	3.21
10 - 12	0:05:56	356	3.27
12 - 14	0:06:51	411	3.27
14 - 16	0:07:46	466	3.27
16 - 18	0:08:24	504	4.74

3.35

Bird Count by Activity



Date	Total Count	Mean Foraging Count	Mean Flyby Count	Mean Resting Count	Mean Scavenging Count
5/26/2013	41	13		28	
5/27/2013	44	21		23	
5/28/2013	47	12		35	
5/29/2013	25	9	1	15	
5/30/2013	60	52		8	
5/31/2013	60	26	1	33	
6/1/2013	65	45		20	

John Day Dam
Avian Zones 2013



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John Day:

	Temp:	Secchi:	Fallbacks
Sun	57	3.5	14
Mon	57	3.5	20
Tues	56	3.5	24
Wed	56	4.5	17
Thur	56	4.5	35
Fri	56	4.5	31
Sat	58	5.0	36
AVG:	56.6	4.1	AVG 25
			MAX 36
			MIN 14

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	9.0	9.2	1.5	10.0	1.6	4.6	1.9	1.6
Sun	9.3	9.3	1.4	10.0	1.4	4.6	2.0	1.5
Mon	9.1	9.3	1.4	9.7	1.6	4.5	2.0	1.5
Mon	8.7	8.9	1.4	9.4	1.6	4.6	2.0	1.7
Tues	9.4	9.2	1.4	10.0	1.5	4.6	1.9	1.5
Tues	8.7	8.8	1.3	10.0	1.5	4.1	1.8	1.2
Wed	9.3	9.3	1.4	10.0	1.6	4.5	1.9	1.3
Wed	8.7	8.7	1.4	9.6	1.6	4.3	1.9	1.2
Thur	8.8	8.8	1.6	10.0	1.5	4.6	2.0	1.3
Thur	9.3	9.3	1.5	9.8	1.5	4.6	1.9	1.2
Fri	9.0	9.0	1.4	10.0	1.7	4.6	1.9	1.4
Fri	8.5	8.5	1.5	10.0	1.5	4.6	1.9	1.4
Sat	8.5	8.5	1.3	9.8	1.9	4.5	1.7	1.3
Sat	9.0	9.0	1.2	10.2	1.6	4.5	1.6	1.3
AVG:	9.0	9.0	1.4	9.9	1.6	4.5	1.9	1.4