FISHWAY STATUS REPORT

Date: 12/7/2013
Inspection Period: 12/01 thru 12/07/13

All JD Fishways are inspected once per day, December- February ;
frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

JOHN DAY DAM
US Army Corps of Engineers
Portland District
JD/WC Project-Fisheries
P.O. Box 823
Rufus, Oregon 97050
Phone: 541-506-7860

John Day Dam	Inspections Out of Criteria	Criteria Limit	Total Number of Inspections: 7	Temperature: 46.4 F
				Secchi: 5.4 Ft.
NORTH FISHWAY			OOS for winter maintenance since 11/29 night; upper successfully dewatered on 12/5	
Exit differential	N/A	≤ 0.5'		
Exit Control weirs	N/A	High setting	High setting is normal for JDN	
Count station differential	N/A	≤ 0.3'		
Weir crest depth	N/A	1.0' ± 0.1'		
Entrance differential	N/A	1.0' - 2.0'	AVG 0.0	
SOUTH FISHWAY			In regular service with all three AWS turbines working properly	
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	0	1.0' ± 0.1'		
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.7	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.21	
Bay 1 differential	0	1.0' - 2.0'	AVG 1.8	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.2	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.8	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.8	
JUVENILE PASSAGE			SMF sampling season ended on 9/15, full flow PIT tags detections through 30 November	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect		
Turbine trashrack drawdown	0	<1.5', wkly		
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	Bay 2 only	Spill for fish passage ended on 9/1, TSWs removed for contract mods	
Spill pattern	0	Bay 2 only	Bay 2 at 1.5 K for additional attraction to JD North entrance, during daylight hours	
Turbine Unit Priority	0	per FPP	MU priority without TSWs requires only units 1-4 in service	
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation: Sampling season ended on 9/15; SMF continues in bypass for the full flow PIT tags detections until 30 November.
JD Mechanics fixed the Crest Gate by 12/10. The end of season SMF dewatering is scheduled for 12/17 AM.

Debris: Very light

Maintenance:
SMF building / wet lab OOS and winterized by JD Fisheries.
JD Fisheries Team continues preparing for the end of season dewatering of entire SMF on 12/16.
SMF CCTV replacement is in planning stage; on hold due to lack of funding. Likely implementation in FY 2014 :)

Research: None. No fish collections in 2013

Fallbacks: AVG: 0 MAX: 0 MIN: 0

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.
122 avian lines are properly installed. Four 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.

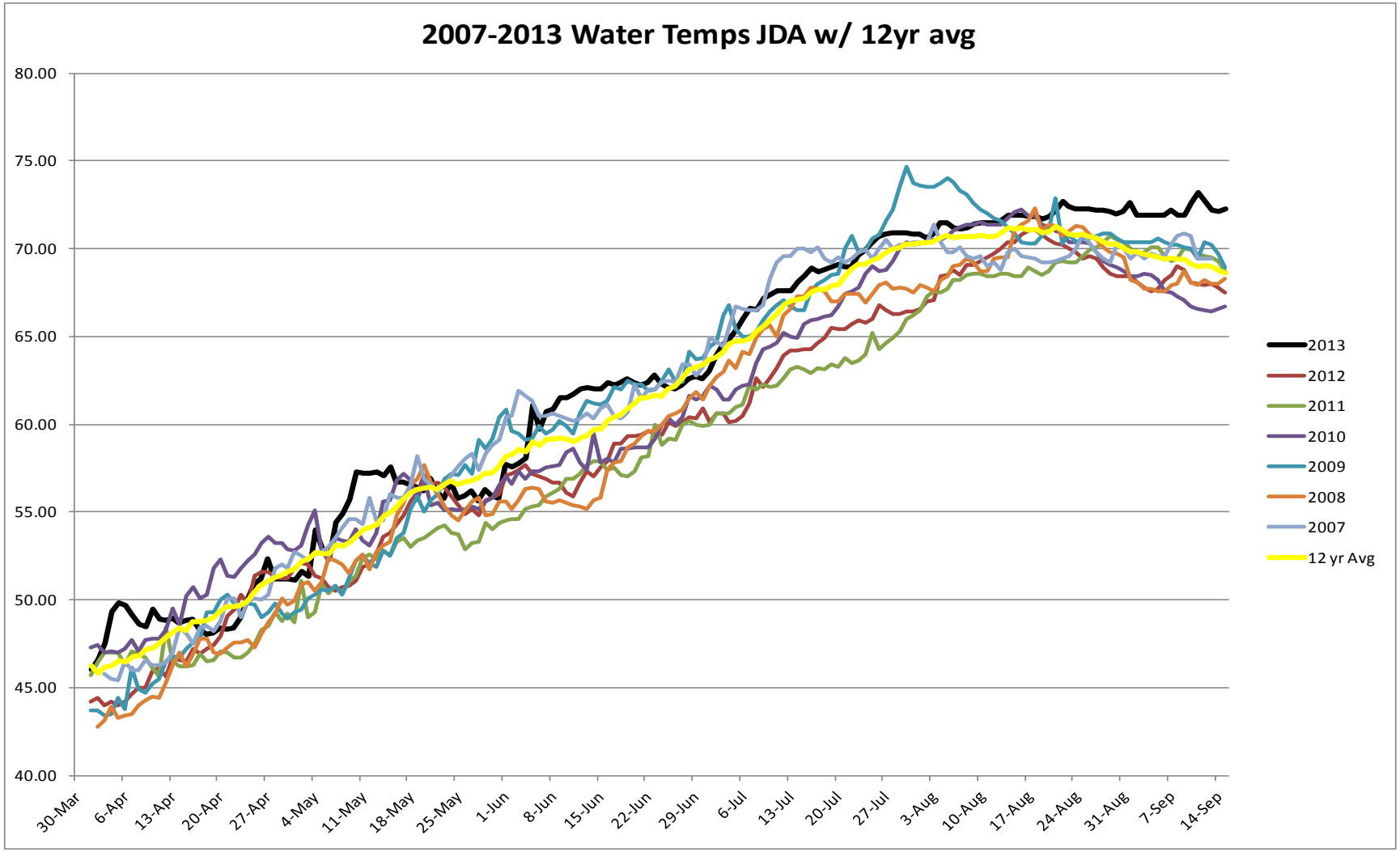
Operations:
JD North Fishway OOS for winter maintenance since 11/29 night. Upper fishway was successfully dewatered on 12/5. " Flushing" method resulted in almost no fish requiring salvage; only two small adult sturgeon and two steelhead smolts were bagged and released into tailrace in great condition. Planned return to service is 12/19.
JD South Fishway in service, meeting the optimal FPP criteria with all three AWS turbines.
JBS continues in regular service with all 48 STS installed for kelts fallback protection through 12/15 as required by FPP. JD Structural crew will pull all STSs during the week of 12/16.

Maintenance:
Monthly (November) STS inspection by JD Structural crew completed on 11/21; only one screen had mesh issues and was replaced with working spare.
Gatewell draw down: Measurements made on 11/24. All units were within established limits, with less than 1.0' differential
Calibration: 11/30/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

Research:
Fish counting at both JD Fishways ended 10/31 . Video counting began 11/1 and will continue through the winter.
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult adult salmonids, which were first tagged at Bonneville Dam.

Glen A. Smith PE
OPM John Day/Willow Creek Project

Date:___ 10-Dec-13


2007-2013 Water Temps JDA w/ 12yr avg
80.00
75.00
70.00
65.00
60.00
55.00
50.00
45.00
40.00
30-Mar
6-Apr
13-Apr
20-Apr
27-Apr
4-May
11-May
18-May
25-May
1-Jun
8-Jun
15-Jun
22-Jun
29-Jun
6-Jul
13-Jul
20-Jul
27-Jul
3-Aug
10-Aug
17-Aug
24-Aug
31-Aug
7-Sep
14-Sep
2013
2012
2011
2010
2009
2008
2007
12 yr Avg

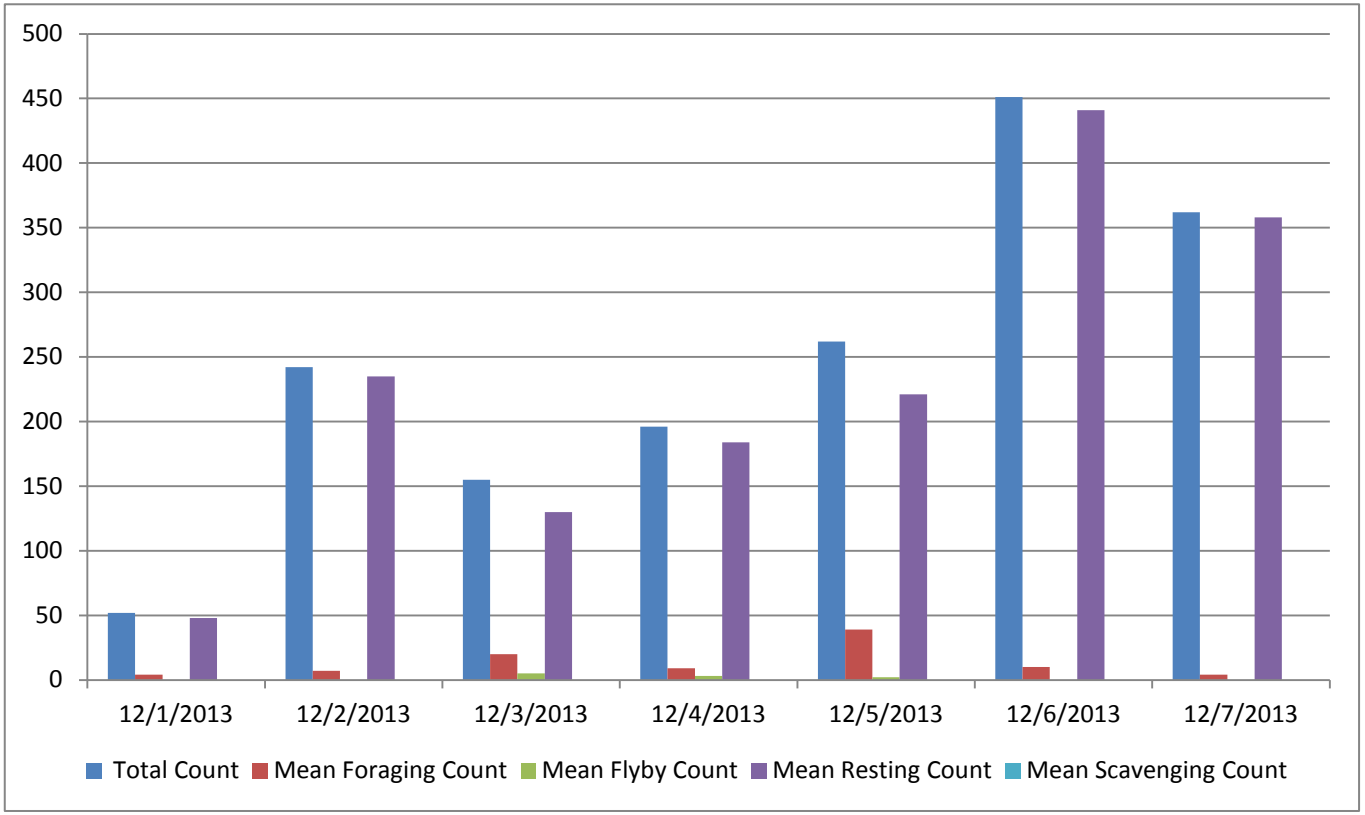
JDA COLLECTION CHANNEL VELOCITY

Date dec. 10

By: pkr,dek

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:33	93	1.94
2 - 4	0:02:24	144	3.53
4 - 6	0:03:23	203	3.05
6 - 8	0:04:16	256	3.40
8 - 10	0:05:11	311	3.27
10 - 12	0:06:07	367	3.21
12 - 14	0:07:11	431	2.81
14 - 16	0:08:07	487	3.21
16 - 18	0:08:47	527	4.50
			3.21

Bird Count by Activity



Date	Total Count	Mean Foraging Count	Mean Flyby Count	Mean Resting Count	Mean Scavenging Count
12/1/2013	52	4		48	
12/2/2013	242	7		235	
12/3/2013	155	20	5	130	
12/4/2013	196	9	3	184	
12/5/2013	262	39	2	221	
12/6/2013	451	10	0	441	
12/7/2013	362	4	0	358	

Seasonal High numbers of GULLS in the Forebay and on the WING WALL.


John Day Dam
Avian Zones 2013
SWFB
SWT1
SWT2
PHFB
SWT3
PHT1
PHT2
PHT3
1000 ft
200 m

John Day:

	Temp:		Secchi:		Fallbacks
Sun	47		5.0		
Mon	47		5.5		
Tues	47		5.5		
Wed	46		5.5		
Thur	46		5.5		
Fri	46		5.5		
Sat	46		5.5		
AVG:	46.4	AVG:	5.4	AVG	
				MAX	
				MIN	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.0	8.0	1.5	8.1	oos	4.7	2.0	1.5
Sun								
Mon	8.5	8.5	1.5	8.7	oos	4.6	1.9	1.2
Mon								
Tues	9.1	9.1	1.4	9.3	oos	4.4	1.8	1.2
Tues								
Wed	9.1	9.0	1.5	9.1	oos	4.6	1.8	1.5
Wed								
Thur	8.5	8.5	1.5	8.2	oos	4.6	1.8	1.1
Thur								
Fri	8.8	8.8	1.5	8.3	oos	4.6	1.9	1.2
Fri								
Sat	9.4	9.4	1.1	9.2	oos	4.6	1.5	1.0
Sat								
AVG:	8.8	8.8	1.4	8.7		4.6	1.8	1.2