# FISHWAY STATUS REPORT

**Date:** 9/20/2014

**Inspection Period:** 9/14 thru 9/20/2014

# US Army Corps of Engineers Portland District

# JOHN DAY DAM

JD/WC Project-Fisheries P.O. Box 823

Rufus, Oregon 97050 Phone: 541-506-7860

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.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Ter	mperature:	<b>68</b> F
-	Out of Criteria	Limit	Sec	<b>cchi:</b> 5.6 Ft.	
NORTH FISHWAY			In regular service. Five AWS pumps available sir	nce 4/11	
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 (DS gauge)	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		
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'			
South entrance differential	0	1.0' - 2.0'	AVG 1.6		
Entrance weir SE1	0	depth (≥ 8')	AVG 8.9		
Collection channel velocity	0	1.5 - 4 fps	AVG 3.31		
Bay 1 differential	0	1.0' - 2.0'	AVG 1.8		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG 8.8		
Entrance weir NE2	0	depth (≥ 8')	AVG 8.8		
JUVENILE PASSAGE			SMF continues in bypass for PIT tags detections	through 24 November.	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6		
Submersible traveling screens	0	visual inspect	All STS/VBS orifices were working properly per C	amera inspection, the week of	of 9/15.
Turbine trashrack drawdown	0	<1.5', wkly	Next raking is scheduled for the last week of Sept	tember.	
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or m	ore frequently if high river del	oris loads
Spill volume	0	1.6 kcfs	2014 Fish Spill ended on 8/31, 2400 hrs. 1.6 kcfs,	, Bay 2 daylight only through I	November
Spill pattern	0	per FPP	Bay 2 at 1.6kcfs to provide additional attraction to	JD North Entrance.	
Turbine Unit Priority	0	per FPP			
Turbine 1% Efficiency	0	per FPP			

#### SMOLT MONITORING FACILITY

Operations: Sampling season ended on 9/15; SMF will continue in bypass for the full flow PIT tags detections until 24 November.

JD Fisheries crew works an abbreviated 18 hrs/7 swing shift schedule as required by FPP.

**Debris:** N/A due to bypass / DA Separator OOS.

Maintenance: Annual winter maintenance activities are planned to commence in December.

Research:

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: #DIV/0! MAX: #DIV/0! MIN: #DIV/0! System in Primary By-pass

## **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.

Avian line # 26 was found failed/its end in the water on 9/1. This is shore- to-shore line and immediately adjacent to the previously missing # 27.

JD Engineering preparing SOW for a contract, which is expected in March '15; funding by special CRFM \$.

## Operations:

JD North Fishway is in regular service and meeting the FPP criteria.

JD South Fishway in regular service and meeting the FPP criteria.

Bay 2, 1.6 kcfs daylight spill from Bay 2 continues daily, September through November to provide additional attraction to JD North Entrance.

### 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: 9/20/2014 All sensors were within the criteria of 0.3'.

JD South Fishway's bay 19 tailrace sensor was determined erratic/failed on 7/22 and TR'd immediately. JD Electrical found it clogged up by debris and cleaned it up on 7/30. Awaiting for a new sensor to replace it. JD Fisheries takes frequent manual measurements to keep the fishway in criteria.

Gatewell Drawdown: 9/14/2014. No units measured greater then 1.3 ft of differential for this reporting week debris loading is light...

#### Research:

JD Fisheries continues coordinating with research groups performing 2014 studies:

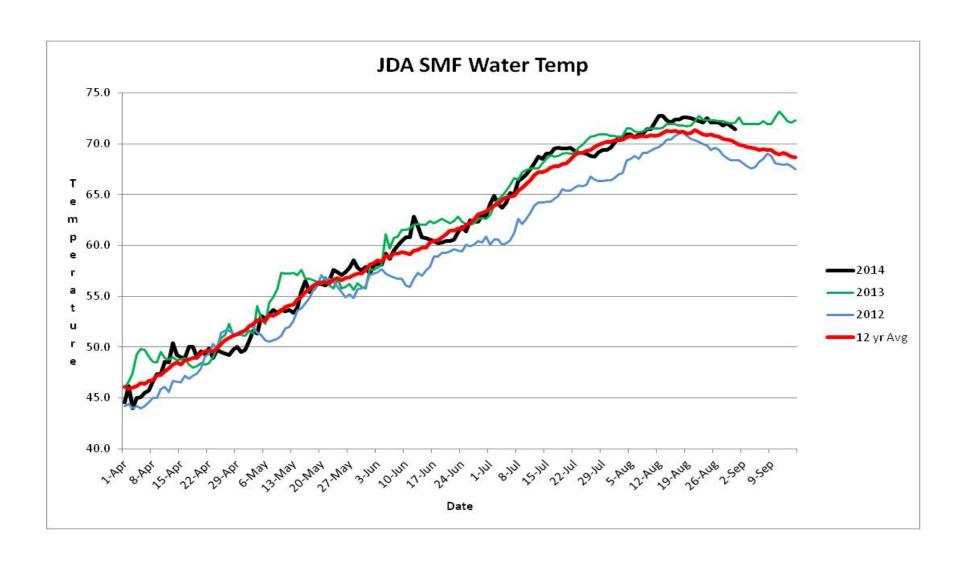
PSMFC/WDFW dam angling from the JD PH tailrace deck for pikeminnow continues; total YTD JD catch is 4,025 as of 8/31.

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. 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: \_\_\_ 23-Sep-14

OPM John Day/Willow Creek Project



JE	DA COL	LECTION	ON CHA	ANNEL V	ELOCI	ITY	
		Date	16-Sep-14				
		Ву:	pete				
	Bay(s)	Time	Sec.	Velocity (f/s)			
	0-2	01:16.0	76	2.37			
	2 - 4	0:02:10	130	3.33			
	4 - 6	0:03:00	180	3.60			
	6 - 8	0:03:59	239	3.05			
	8 - 10	0:04:59	299	3.00			
	10 - 12	0:05:54	354	3.27			
	12 - 14	0:06:49	409	3.27			
	14 - 16	0:07:40	460	3.53			
	16 - 18	0:08:21	501	4.39			
				3.31			
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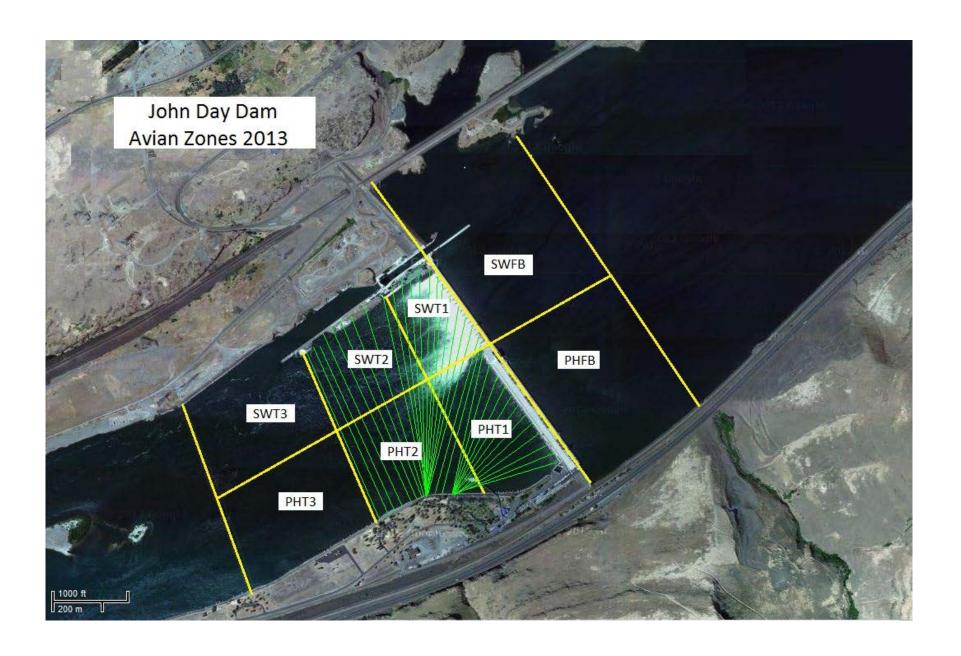
# **2014 JDA Piscivorous Bird Counts**

F=foraging, NF=non-foraging

				Gı	ıll	Cormo	orant	Caspia	n tern	AWF	È	Gre	be	Total	
		Time												birds in	
Date	Session	(24 hr)	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	zone	Observer
14-Sep-14			PHFB	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14			SWFB	0	6	0	0		0	0	0	0	0	6	egg
14-Sep-14	1		PH1	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14			PH2	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14			PH3	0	16	0	0	0	0	0	0	0	0	16	egg
14-Sep-14			SW1	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14			PHFB	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14		14:00		0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14	2	14:00		27	0	0	0	0	0	0	0	0	0	27	egg
14-Sep-14		14:00		0	0	0	0	0	0	0	0	0	0	0	egg
14-Sep-14			SW2	0	0	2	0	0	0	0	0	0	0	2	egg
14-Sep-14			SW3	0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14			PHFB	0	0	0	0	_	0	0	0	0	0	0	egg
15-Sep-14			SWFB	0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14			PH1	0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14			PH2	3	0	0	0	0	0	0	0	0	0	3	egg
15-Sep-14			PH3	24	0	0	0	0	0	0	0	0	0	24	egg
15-Sep-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14	1		SW2	0	0	4	0	0	0	0	0	0	0	4	egg
15-Sep-14			SW3	6	0	0	0		0	0	0	0	0	6	egg
15-Sep-14			PHFB	0	0	0	0	_	0	0	0	0	0	0	egg
15-Sep-14			SWFB	0	0	0	0	_	0	0	0	0	0	0	egg
15-Sep-14	2	14:00		0	0	2	0	_	0	0	0	0	0	2	egg
15-Sep-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14	2	14:00		17	0	0	0	0	0	0	0	0	0	17	egg
15-Sep-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	egg
15-Sep-14	2		SW2	0	0	5	0	0	0	0	0	0	0	5	egg
15-Sep-14	2		SW3	0	0	0	0		0	0	0	0	0	0	egg
16-Sep-14			PHFB	0	0	0	0	_	0	0	0	0	0	0	egg
16-Sep-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	egg

16-Sep-14	1	7:30	PH1	0	ol	1	o	0	0	0	ol	0	0	1	egg
16-Sep-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	1		PH3	57	0	0	0	0	0	0	0	0	0	57	egg
16-Sep-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	1		SW2	0	0	5	0	0	0	0	0	0	0	5	egg
16-Sep-14	1		SW3	3	0	0	0	0	0	0	0	0	0	3	egg
16-Sep-14	2		PHFB	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2		PH2	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2	14:00		0	0	0	0	0	ő	0	0	0	0	0	egg
16-Sep-14	2		SW1	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	egg
16-Sep-14	2		SW3	0	0	0	0	0	0	0	0	0	0	0	egg
17-Sep-14	1		PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
17-Sep-14	1		SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
17-Sep-14	1		PH1	0	0	0	0	0	0	0	ő	0	0	0	DEK
17-Sep-14	1		PH2	0	0	0	0	0	0	0	ő	0	0	0	DEK
17-Sep-14	1		PH3	11	0	0	0	0	0	0	ő	0	0	11	DEK
17-Sep-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
17-Sep-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
17-Sep-14	1		SW3	3	0	0	0	0	0	0	0	0	0	3	DEK
17-Sep-14	2		PHFB	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	PH2	2	0	0	0	0	0	0	0	0	0	2	Jim
17-Sep-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Sep-14	2	14:00	SW3	0	0	0	22	0	0	0	0	0	0	22	Jim
18-Sep-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	PH3	13	0	0	0	0	0	0	0	0	0	13	DEK
18-Sep-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Sep-14	1	7:30	SW3	4	0	0	0	0	0	0	0	0	0	4	DEK
18-Sep-14	2	14:00	PHFB	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Sep-14	2	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0	Jim

18-Sep-14	2	14:00 PH1	0	ol	0	ol	0	ol	0	0	0	0	0	Jim
18-Sep-14	2	14:00 PH2	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Sep-14	2	14:00 PH3	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Sep-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Sep-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Sep-14	2	14:00 SW3	0	0	0	0	0	0	0	0	0	0	0	Jim
19-Sep-14	1	7:30 PHFB	0	0	1	0	0	0	0	0	0	0	1	DEK
19-Sep-14	1	7:30 SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
19-Sep-14	1	7:30 PH1	0	0	2	0	0	0	0	0	0	0	2	DEK
19-Sep-14	1	7:30 PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
19-Sep-14	1	7:30 PH3	4	0	0	0	0	0	0	0	0	0	4	DEK
19-Sep-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
19-Sep-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
19-Sep-14	1	7:30 SW3	1	0	0	0	0	0	0	0	0	0	1	DEK
19-Sep-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	Jim
19-Sep-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	0	0	0	Jim
19-Sep-14	2	14:00 PH1	0	0	1	0	0	0	0	0	0	0	1	Jim
19-Sep-14	2	14:00 PH2	4	0	0	0	0	0	0	0	0	0	4	Jim
19-Sep-14	2	14:00 PH3	3	0	0	0	0	0	0	0	0	0	3	Jim
19-Sep-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	Jim
19-Sep-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	Jim
19-Sep-14	2	14:00 SW3	0	0	0	16	0	0	0	0	0	0	16	Jim
20-Sep-14	1	7:30 PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 PH1	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 PH3	16	0	0	0	0	0	0	0	0	0	16	DEK
20-Sep-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	1	7:30 SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
20-Sep-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	Jim
20-Sep-14	2	14:00 SWFB	0	2	0	0	0	0	0	0	0	0	2	Jim
20-Sep-14	2	14:00 PH1	0	0	3	0	0	0	0	0	0	0	3	Jim 
20-Sep-14	2	14:00 PH2	2	0	0	0	0	0	0	0	0	0	2	Jim 
20-Sep-14	2	14:00 PH3	3	0	0	0	0	0	0	0	0	0	3	Jim 
20-Sep-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	Jim 
20-Sep-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	Jim
20-Sep-14	2	14:00 SW3	0	0	0	25	0	0	0	0	0	0	25	Jim



# John Day:

	Temp:		Secchi:		Fallbacks
Sun	69		5.0		
Mon	69		5.0		
Tues	69		5.0		
Wed	68		6.0		
Thur	68		6.0		
Fri	68		6.0		
Sat	68		6.0		
AVG:	68	AVG:	5.6	AVG	#DIV/0!
				MAX	#DIV/0!
				MIN	#DIV/0!
				•	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.9	8.9	1.6	8.9	1.5	4.6	1.8	1.5
Sun	8.8	8.8	1.5	8.8	1.6	4.5	1.8	1.6
Mon	8.9	8.9	1.6	8.9	1.5	4.6	1.9	1.4
Mon	9.5	9.5	1.5	9.5	1.6	4.5	2.0	1.4
Tues	8.7	8.7	1.6	8.7	1.5	4.5	2.0	1.6
Tues	9.6	9.6	1.4	8.7	1.5	4.6	2.0	1.6
Wed	9.0	9.0	1.6	9.4	1.5	4.7	1.9	1.8
Wed	9.7	9.7	1.3	9.6	1.4	4.5	1.6	1.5
Thur	9.5	9.5	1.7	9.4	1.6	4.6	1.9	1.3
Thur	8.3	8.3	1.7	10.1	1.5	4.5	1.8	1.7
Fri	8.0	8.0	1.7	8.2	1.5	4.5	1.9	1.4
Fri	8.2	8.2	1.7	8.3	1.5	4.5	1.9	1.8
Sat	8.2	8.3	1.8	8.3	1.6	4.6	1.2	1.8
Sat	8.3	8.3	1.7	8.2	1.8	4.6	1.9	1.8
AVG:	8.8	8.8	1.6	8.9	1.5	4.6	1.8	1.6