FISHWAY STATUS REPORT

Date: 8/30/2014

Inspection Period: 8/24 thru 8/30/2014

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 I	nspections:	14	Temperature:	72 F
•	Out of Criteria	Limit				Secchi:	5.1 Ft.
NORTH FISHWAY			In regular service.	Five AWS pump	os availab	le since 4/11	
Exit differential	0	≤ 0.5′					
Exit Control weirs	0	High setting	High setting is norr	mal 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 v	with all three AW	S turbines	3	
Exit differential	0	≤ 0.5′					
Exit Control weirs	0	MID setting	MID is normal for a	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 1.5				
Entrance weir SE1	0	depth (≥ 8')	AVG 8.5				
Collection channel velocity	0	1.5 - 4 fps	AVG 3.19				
Bay 1 differential	0	1.0' - 2.0'	AVG 1.7				
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6				
Entrance weir NE1	0	depth (≥ 8')	AVG 8.9				
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0				
JUVENILE PASSAGE			JBS/SMF changed	I to bypass at sw	itch gate	due to water tem	p of 70 F on 7/31
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6				
Submersible traveling screens	0	visual inspect	Next monthly STS	camera inspecti	on schedi	uled for the 3 rd v	week of September
Turbine trashrack drawdown	0	<1.5', wkly	Raking during wee	k 8/25 produced	minimal a	amount of visible	debris
Vert barrier screen drawdown	0	<1.5', wkly					tly if high river debris loads
Spill volume	0	30%	30% 24 hrs spill sir	nce 7/22; will end	d on 8/31.	TSW shutdown	occurred on 8/28 per FPP
Spill pattern	0	per FPP	TSW pattern throu				
Turbine Unit Priority	0	per FPP	·		•	•	-
Turbine 1% Efficiency	0	per FPP					

SMOLT MONITORING FACILITY

Operation: SMF continues in bypass at switch gate due to water temp over 70 F. PSMFC sampling twice a week until the temp drops to 69.5 F; it is 71 F as of 9/03. JD Fisheries works regular 24/7 swing shift schedule as required by FPP; it will continue this until the end of sampling season on 9/15.

Debris: Moderate to light; primarily tumbleweeds with some sticks, branches, and wooden debris.

MAX:

Maintenance: None

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:

6

6

MIN:

(6 hr. conditioning samples twice weekly at temps over 70 F.)

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.

Operations:

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

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

Two TSWs in spillway bays 18 & 19 were shut down for the season on 8/28 at approximately noon. Bulk spill pattern continues through 8/31, 2400 hrs.

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: 8/22/2014 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.

Gatewell Drawdown: 8/17 and 8/20. No units measured greater then 1.3 ft of differential for this reporting week.

Research:

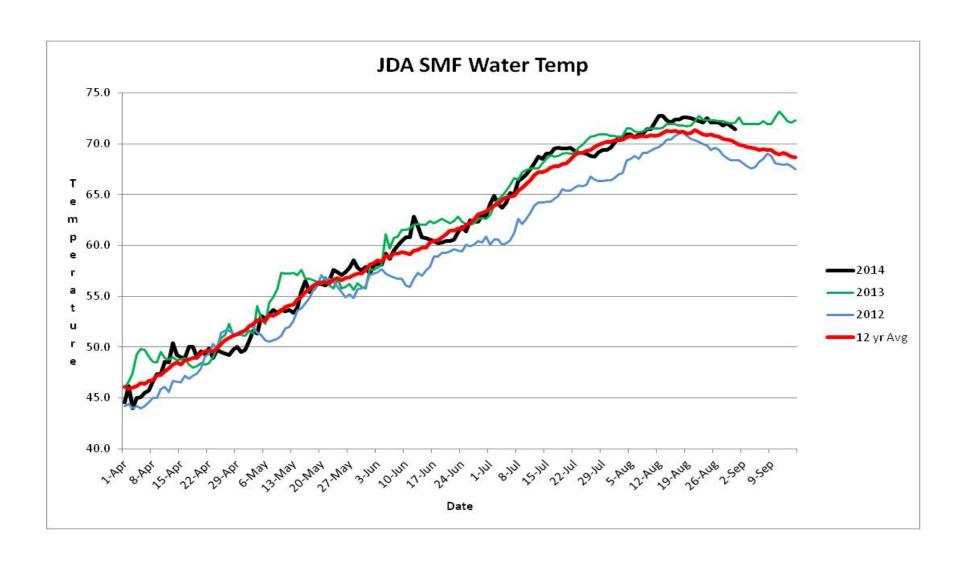
JD Fisheries continues coordinating with research groups performing 2014 studies:

PSMFC/WDFW dam angling from the JD PH tailrace deck for pikeminnow underway; total YTD JD catch is 4,025 as of 8/31 which is a great result! 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: 2-Sep-14

OPM John Day/Willow Creek Project



JD	A COL	LECTION	ON CHA	ANNEL V	ELOCI	TY	
		Date	27-Aug-14				
	-	Ву:	pkr,maz				
				•			
	Bay(s)	Time	Sec.	Velocity (f/s)			
	0-2	01:02.0	62	2.90			
	2 - 4	0:01:54	114	3.46			
	4 - 6	0:02:53	173	3.05			
	6 - 8	0:03:48	228	3.27			
	8 - 10	0:04:48	288	3.00			
	10 - 12	0:05:48	348	3.00			
	12 - 14	0:06:48	408	3.00			
	14 - 16	0:07:52	472	2.81			
	16 - 18	0:08:35	515	4.19			
				3.19			
	-						
	-						
	-						
	-						
	_						

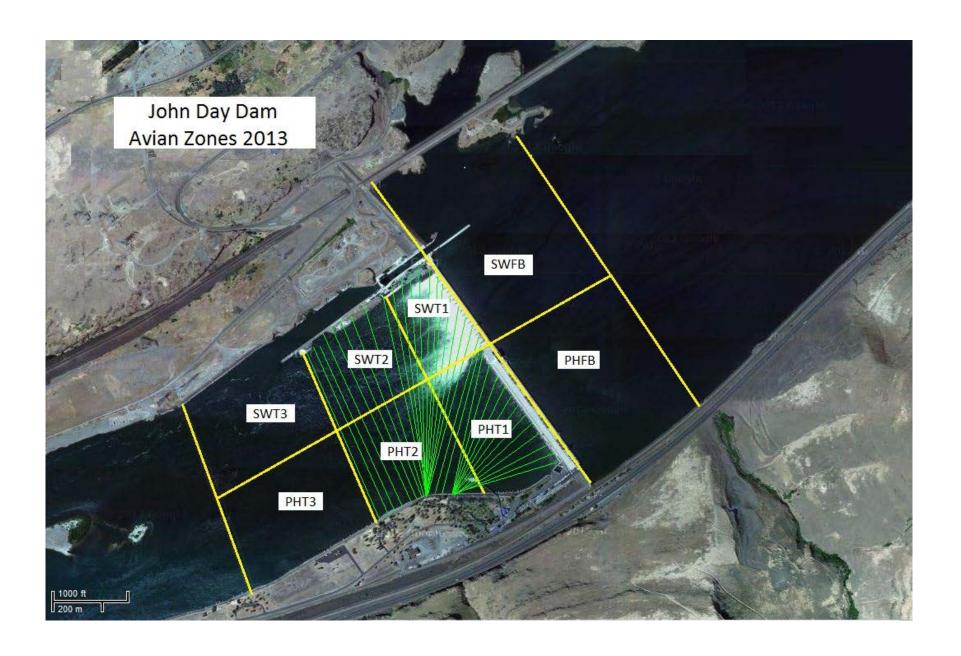
2014 JDA Piscivorous Bird Counts

F=foraging, NF=non-foraging

				Gı	ıll	Cormo	orant	Caspia		AWF		Gre	be	Total	
		Time												birds in	
Date	Session	(24 hr)	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	zone	Observer
24-Aug-14			PHFB	0	0		0		0	0	0	0	0	0	DEK
24-Aug-14			SWFB	0	0	0	0	_	0	0	0	0	0	0	DEK
24-Aug-14			PH1	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14			PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14			PH3	0	0	0	0	0	0	5	0	0	0	5	DEK
24-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14			SW2	0	0	0	0	0	0	3	0	0	0	3	DEK
24-Aug-14			SW3	12	0	0	0	0	0	17	0	0	0	29	DEK
24-Aug-14			PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14			SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14		14:00		3	0	0	0	0	0	0	0	0	0	3	DEK
24-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14			SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Aug-14	2		SW3	20	0	0	0	0	0	5	0	0	0	25	DEK
25-Aug-14			PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			PH1	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			PH3	16	0	0	0	0	0	5	0	0	0	21	DEK
25-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SW3	10	0	0	0	0	0	5	0	0	0	15	DEK
25-Aug-14			PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14		14:00		19	0	0	0	0	0	5	0	0	0	24	DEK
25-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
25-Aug-14			SW3	6	0	0	0	0	0	2	0	0	0	8	DEK
26-Aug-14			PHFB	0	1	0	0		0	0	0	0	0	1	DEK
26-Aug-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK

26-Aug-14	1	7:30 PH1	0	0	0	0	0	o	0	0	0	0	0	DEK
26-Aug-14	1	7:30 PH2	0	o	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	1	7:30 PH3	24	0	0	0	0	0	6	0	0	0	30	DEK
26-Aug-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	1	7:30 SW3	10	0	0	0	0	0	4	0	0	0	14	DEK
26-Aug-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 PH1	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 PH3	4	0	0	0	0	0	2	0	0	0	6	DEK
26-Aug-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Aug-14	2	14:00 SW3	12	0	0	0	0	0	6	0	0	0	18	DEK
27-Aug-14	1	7:30 PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 PH1	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 PH2	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 PH3	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	1	7:30 SW3	7	0	0	0	0	0	14	0	0	0	21	PKR
27-Aug-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 PH1	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 PH2	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 PH3	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
27-Aug-14	2	14:00 SW3	14	0	0	0	0	0	5	0	0	0	19	PKR
28-Aug-14	1	7:30 PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 PH1	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 PH2	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 PH3	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	1	7:30 SW3	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	1	0	1	PKR

28-Aug-14	2	14:00	lPH1	I 0	0	0	o	0	ol	0	0	0	0	0	PKR
28-Aug-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
28-Aug-14	2		SW3	39	0	0	0	0	0	4	0	0	0	43	PKR
29-Aug-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1	7:30	SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1	7:30	PH1	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	1		SW3	16	0	0	0	0	0	7	0	0	0	23	PKR
29-Aug-14	2		PHFB	2	0	0	0	0	0	0	0	0	0	2	PKR
29-Aug-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	2		SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
29-Aug-14	2		SW3	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	1		PHFB	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14			SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14			PH1	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14			PH3	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14			SW1	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14			SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	1		SW3	13	0	0	0	0	0	7	0	0	0	20	PKR
30-Aug-14	2		PHFB	1	0	0	0	0	0	0	0	0	0	1	PKR
30-Aug-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14		14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	PKR
30-Aug-14	2	14:00	SW3	1	0	0	0	0	0	0	0	0	0	1	PKR



John Day:

	Temp:		Secchi:		Fallbacks	
Sun	72		5.0			
Mon	72		5.0			
Tues	72		5.0		5	
Wed	72		5.0			
Thur	72		5.0		6	6 hr condition sample
Fri	72		5.5			
Sat	72		5.5			
AVG:	72	AVG:	5.1	AVG	6	
				MAX	6	
				MIN	5	
				•		-

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.5	8.5	1.6	8.1	1.5	4.8	1.9	1.5
Sun	8.8	8.9	1.6	8.1	1.4	4.4	1.9	1.6
Mon	9.1	9.2	1.6	8.1	1.4	4.5	1.9	1.6
Mon	10.3	10.4	1.7	9.1	1.6	4.4	2.0	1.4
Tues	8.1	8.1	1.4	8.0	1.5	4.6	1.7	2.0
Tues	9.0	9.0	1.3	8.5	1.5	4.6	1.6	1.8
Wed	9.1	9.1	1.6	9.0	1.5	4.7	2.0	2.0
Wed	9.4	9.4	1.4	9.3	1.5	4.5	1.7	1.6
Thur	8.8	8.8	1.6	8.5	1.5	4.6	1.6	1.6
Thur	9.0	9.0	1.5	8.8	1.6	4.6	1.5	1.4
Fri	8.3	8.3	1.6	8.1	1.6	4.5	1.6	1.8
Fri	9.5	9.5	1.4	9.0	1.4	4.5	1.5	1.5
Sat	8.3	8.3	1.4	8.1	1.7	4.5	1.4	1.6
Sat	8.8	8.8	1.3	8.4	1.5	4.6	1.7	1.5
AVG:	8.9	9.0	1.5	8.5	1.5	4.6	1.7	1.6