

FISHWAY STATUS REPORT

Date: 11/17/2018
 Inspection Period: 11/11/2018 thru 11/17/2018



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 passage season, Mar. 1 - Nov. 30.
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	54 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps total available.			
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	0		In service with two AWS turbines and two FOGs.			
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 (US gauge)	0	1.0' ± 0.1'				
South entrance differential	0	1.0' - 2.0'	AVG	1.4		
Entrance weir SE1	1	depth (≥ 8')	AVG	8.4	OOC at 7.6' on 11/16 PM. Adjusted immediately above 8.0'.	
Collection channel velocity	0	1.5 - 4 fps	AVG	2.69		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.6		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.6		
JUVENILE PASSAGE	0		In service since 2/28.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	Monthly STS inspection scheduled for the week of 11/19.			
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashrack raking complete on 10/25. A small amount of wooden debris' removed.			
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are below the criterion of 1.5'.			
Spill volume	0	per FPP	Spill Season ended on 8/31. Bay 2 open at 1.6K for adult attraction to North Entrance on 9/1.			
Spill pattern	0	per FPP	Bay 2 open at 1.6K during daylight hours for adult attraction to North Entrance since 9/1.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

2018 SMF Sampling Season ended on 9/15. Bypass at Switch Gate for full flow PIT detections will continue thru 28 November.

SMF SCADA update/mods' planning by JD Electrical/ Portland District Engineers is underway. Implementation during this coming winter's outage season.

Research: None

Fallbacks: AVG: 0 MAX: 0 MIN: 0

Birds :

Typical fall water birds feeding on the abundant juvenile shad. See Avian Numbers tab for details.

All 125 avian lines in place without any deficiencies.

Operations:

JD South Fishway in service, with two AWS turbines and two FOGs since 2/28/18. Awaiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)

JD North Ladder in service since 12/21/17. 6 out of 6 AWS pumps available again since 4/18/18.

MU Gatewell Drawdowns: All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

Maintenance:

MU 14 was dewatered for its 5-year overhaul on 11/15. JD Fisheries inspected scroll case AM and draft tube PM. There were no fish found in the scroll case. There were approx. 200 catfish, mostly small and juvenile found in the draft tube. 12 large catfish were salvaged and released into the river in excellent condition. The remaining small size catfish are expected to survive in a high volume of water until the unit is watered back up in 4 weeks.

JD South AWS turbine 1 is OOS, in poor condition and urgently awaiting its overhaul as soon as \$ 3 million becomes available (hopefully in a year or two ?)

Calibration: All gauges/ sensors are within the criteria of 0.3' .

Research:

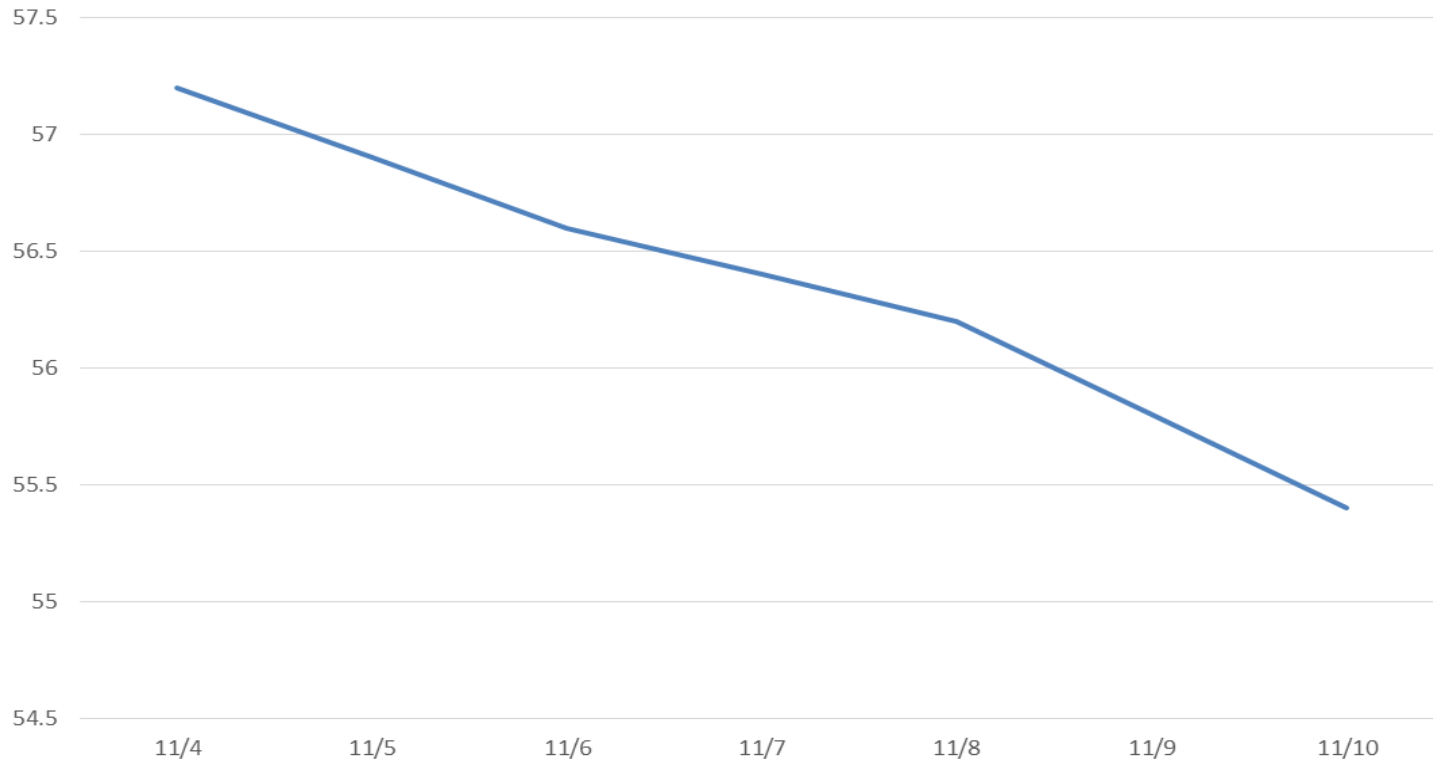
JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

WDFW NPM angling concluded 10/07/18 with a respectable seasonal total of 3,089 NPM removed.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

E-Signed by MOYNAHAN,KEVIN.PATRICK,1393959157
VERIFY authenticity with ApproveIt

JDA Tailwater Temperature (F) (11/4/18 - 11/10/18)



JDA Collection Channel Velocity

Date 8-Nov-18

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:14	134	2.57
4 - 6	3:20	200	2.73
6 - 8	4:27	267	2.69
8 - 10	5:36	336	2.61
10 - 12	6:45	405	2.61
12 - 14	7:54	474	2.61
14 - 16	9:03	543	2.61
16 - 18	10:06	606	2.86
			2.68

Bay 19 TW:	160.5
Turbine 2-3:	68 RPM

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	55	6.0	NA
Mon	55	6.0	NA
Tue	54	6.0	NA
Wed	53	6.0	NA
Thur	53	6.0	NA
Fri	53	6.0	NA
Sat	53	6.0	NA
AVG:	54	AVG: 6.0	AVG/Sample #DIV/0!
			MAX 0
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.0	10.0	1.3	8.5	1.3	4.6	1.5
Sun	9.4	9.4	1.5	8.1	1.3	4.5	1.6
Mon	10.2	10.2	1.3	8.5	1.3	4.6	1.5
Mon	9.7	9.7	1.5	8.2	1.3	4.5	1.5
Tues	11.0	11.0	1.2	9.7	1.3	4.6	1.5
Tues	9.4	9.4	1.6	8.3	1.5	4.5	1.4
Wed	9.9	9.9	1.1	8.8	1.6	4.6	1.8
Wed	9.4	9.4	1.5	8.0	1.7	4.5	1.3
Thur	9.6	9.6	1.3	8.5	1.6	4.6	1.8
Thur	8.9	8.9	1.4	8.0	1.6	4.5	1.7
Fri	9.6	9.6	1.3	8.5	1.5	4.6	1.5
Fri	8.3	8.3	1.6	7.6	1.6	4.6	1.4
Sat	10.0	10.0	1.6	8.5	1.5	4.5	1.6
Sat	9.4	9.4	1.2	8.9	1.6	4.6	1.7
AVG:	9.6	9.6	1.4	8.4	1.5	4.6	1.6

JDA Bird Counts: 11/11/18 to 11/17/18

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
11-Nov	PHFB	0	0	62	62	0	0	17	0	0	0	0	0	0	0	0	0	70	74	0	0	285
11-Nov	SWFB	0	0	481	398	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	879
11-Nov	PH1	36	2	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
11-Nov	PH2	38	18	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
11-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Nov	SW2	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
11-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		47		502		8		20		0		0		0		0		72		0		1295
12-Nov	PHFB	0	0	40	21	0	0	36	4	0	0	0	0	0	0	0	0	52	64	0	0	217
12-Nov	SWFB	0	0	405	433	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	838
12-Nov	PH1	43	12	0	0	14	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
12-Nov	PH2	29	21	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
12-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Nov	SW2	0	0	0	0	0	0	27	16	0	0	0	0	0	0	0	0	0	0	0	0	43
12-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		53		450		15		42		0		0		0		0		58		0		1232
13-Nov	PHFB	0	0	38	40	0	0	32	2	0	0	0	0	0	0	0	0	37	0	0	1213	1362
13-Nov	SWFB	0	0	326	1332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1658
13-Nov	PH1	62	34	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
13-Nov	PH2	16	15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
13-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Nov	SW2	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	57
13-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		64		868		6		46		0		0		0		0		19		607		3215
14-Nov	PHFB	0	0	57	73	0	0	7	0	0	0	0	0	0	0	0	0	142	0	0	0	279
14-Nov	SWFB	0	0	758	711	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1469
14-Nov	PH1	2	10	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
14-Nov	PH2	37	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
14-Nov	PH3	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	16
14-Nov	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14-Nov	SW2	0	0	0	0	0	0	53	45	0	0	0	0	0	0	0	0	0	0	0	0	98
14-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		42		805		1		57		0		0		0		0		71		0		1950

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Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
15-Nov	PHFB	0	0	23	513	0	0	34	8	0	0	0	0	0	0	0	0	27	127	0	0	732
15-Nov	SWFB	0	0	793	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	917
15-Nov	PH1	43	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
15-Nov	PH2	53	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
15-Nov	PH3	7	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
15-Nov	SW1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15-Nov	SW2	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	23
15-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		63		727		14		33		0		0		0		0		77		0		1825
16-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		0		0		0		0		0		0		0		0		0
17-Nov	PHFB	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
17-Nov	SWFB	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
17-Nov	PH1	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
17-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		72		4		0		0		0		0		0		0		0		152
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		536		6845		91		391		0		0		0		0		593		1213		9669
Avg/Survey		38		489		7		28		0		0		0		0		42		87		691

John Day Dam
Avian Zones

