


FISHWAY STATUS REPORT

Date: 9/29/2018
Inspection Period: 9/23/2018 thru 9/29/2018



**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: 66 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	0	depth (≥ 8')	AVG 8.7	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.17	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.5	
Entrance weir NE1	0	depth (≥ 8')	AVG 9.0	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0	
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 was completed 9/25. All STSs found in good working order.	
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashrack raking completed on 9/27. Very low river debris found.	
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 (last sample on 9/14.) Bypass at Switch Gate for full flow PIT detections will continue thru 30 November.
SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway. Awaiting for \$ 170 K UFR to complete in FY18.

Research: None

Fallbacks: AVG: 0 MAX: 0 MIN: 0

Birds :

Almost all White pelicans already gone to Lake Chaparral, Mexico for their winter vacation there. 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:

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 from JD PH Tailrace deck continues since 5/1. Catches improved in September, with a great seasonal total of 3,019 NPM thru 9/23.
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 Temperatures (F) 9/23/18 - 9/29/18



JDA Collection Channel Velocity

Date 24-Aug-18

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:19	79	2.28
2 - 4	2:33	153	2.43
4 - 6	3:56	236	2.17
6 - 8	5:19	319	2.17
8 - 10	6:35	395	2.37
10 - 12	7:48	468	2.47
12 - 14	9:12	552	2.14
14 - 16	10:24	624	2.50
16 - 18	11:22	682	3.10
			2.40

Bay 19 TW: 159.9
turbine 2-3=68rpm

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

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	66	6.0	
Mon	66	6.0	
Tue	66	6.0	
Wed	66	6.0	
Thur	66	6.0	
Fri	66	6.0	
Sat	66	6.0	
AVG:	66	AVG: 6.0	AVG/Sample #DIV/0!
			MAX 0
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.8	8.8	1.5	8.1	1.6	4.6	1.6
Sun	8.8	8.8	1.6	8.4	1.6	4.6	1.7
Mon	9.2	9.2	1.4	9.0	1.5	4.5	1.6
Mon	9.4	9.4	1.4	9.2	1.5	4.8	1.6
Tues	9.0	9.1	1.4	8.8	1.5	4.6	1.4
Tues	9.0	9.0	1.2	9.0	1.6	4.6	1.1
Wed	8.7	8.7	1.4	8.5	1.7	4.6	1.5
Wed	8.7	8.7	1.5	8.4	1.7	4.6	1.5
Thur	9.1	9.1	1.4	9.0	1.2	4.6	1.5
Thur	9.0	9.0	1.4	8.8	1.4	4.6	1.6
Fri	9.1	9.1	1.5	8.9	1.5	4.9	1.6
Fri	9.0	9.0	1.4	9.0	1.5	4.3	1.5
Sat	8.9	8.9	1.5	8.8	1.5	4.6	1.6
Sat	9.0	9.0	1.4	8.5	1.4	4.6	1.5
AVG:	9.0	9.0	1.4	8.7	1.5	4.6	1.5

JDA Bird Counts: 9/23/18 to 9/29/18

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)	
23-Sep	PHFB	0	0	40	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	65	262
23-Sep	SWFB	0	0	50	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	115
23-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	PH3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
23-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	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		126		0		0		0		0		0		0		0		65		382
24-Sep	PHFB	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	65	68
24-Sep	SWFB	0	0	29	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	180
24-Sep	PH1	36	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
24-Sep	PH2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
24-Sep	PH3	9	15	0	0	1	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	38
24-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		33		66		2		0		0		0		7		0		0		59		331
25-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	SWFB	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	26	44	0	87
25-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep	PH2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25-Sep	PH3	22	0	0	39	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	98
25-Sep	SW1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25-Sep	SW2	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	33
25-Sep	SW3	12	0	0	17	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	31
Avg/Survey		18		37		0		35		0		0		0		1		13		22		251
26-Sep	PHFB	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
26-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	59	122
26-Sep	PH1	23	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
26-Sep	PH2	20	12	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
26-Sep	PH3	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
26-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Sep	SW2	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
26-Sep	SW3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Avg/Survey		55		0		3		23		0		0		0		0		0		61		282

JDA Bird Counts: 9/23/18 to 9/29/18

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)	
27-Sep	PHFB	0	0	0	1	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	40
27-Sep	SWFB	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	66	0	169
27-Sep	PH1	41	24	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
27-Sep	PH2	4	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
27-Sep	PH3	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
27-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		48		22		2		20		0		0		0		0		31		33	307	
28-Sep	PHFB	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
28-Sep	SWFB	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	96
28-Sep	PH1	38	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
28-Sep	PH2	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
28-Sep	PH3	25	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	29
28-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		34		26		2		9		0		0		0		2		0		23	190	
29-Sep	PHFB	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
29-Sep	SWFB	0	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
29-Sep	PH1	39	3	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
29-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		21		48		2		12		0		0		0		0		0		0	165	
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		414		648		20		196		0		0		13		6		87		524	1908	
Avg/Survey		30		46		1		14		0		0		1		0		6		37	136	