


FISHWAY STATUS REPORT

Date: 11/3/2018
 Inspection Period: 10/28/2018 thru 11/3/2018



**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:	58 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	1.4		
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	8.4		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.50		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.9		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.9		
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 10/18. All STSs found in good working order.			
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 30 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:

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:

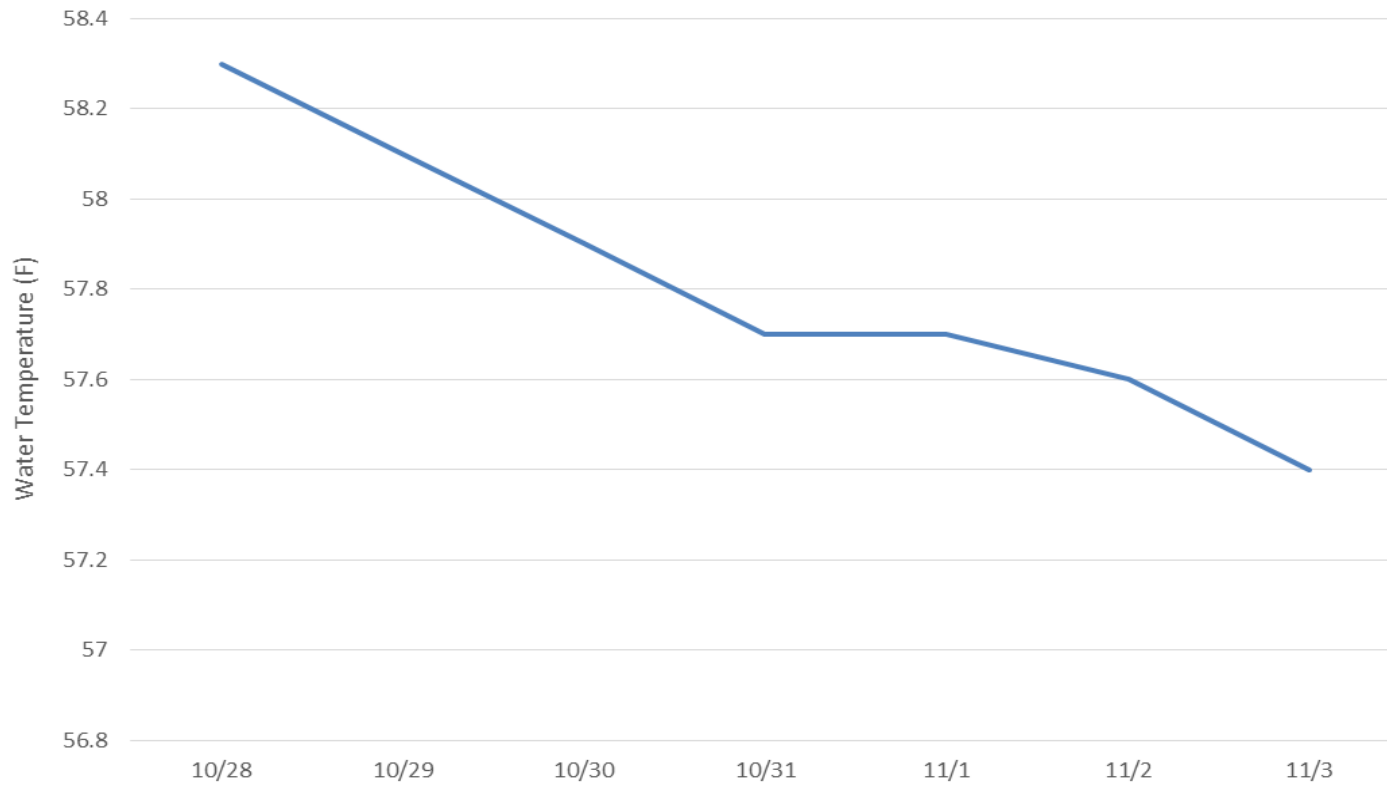
JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

WDFW NPM angling from JD PH Tailrace deck continues since 5/1. Catches continue slow since August, but with great seasonal total of 3,089 NPM thru 10/07.

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 Tailrace Water Temperature (F) (10/28/18/ - 11/4/18)



JDA Collection Channel Velocity

Date 23-Oct-18

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:07	67	2.69
2 - 4	2:14	134	2.69
4 - 6	3:22	202	2.65
6 - 8	4:34	274	2.50
8 - 10	5:45	345	2.54
10 - 12	6:52	412	2.69
12 - 14	8:03	483	2.54
14 - 16	9:11	551	2.65
16 - 18	10:14	614	2.86
			2.64

Bay 19 TW:	161.2
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	58	6.0	NA
Mon	58	6.0	NA
Tue	58	6.0	NA
Wed	58	6.0	NA
Thur	58	6.0	NA
Fri	58	6.0	NA
Sat	57	6.0	NA
AVG:	58	AVG: 6.0	AVG/Sample #DIV/0!
			MAX 0
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.2	9.2	1.4	8.1	1.5	4.6	1.3
Sun	10.0	10.0	1.5	8.4	1.4	4.6	1.5
Mon	11.8	11.8	1.5	8.2	1.2	4.6	1.6
Mon	10.6	10.6	1.2	8.2	1.5	4.5	1.4
Tues	10.2	10.2	1.5	8.3	1.3	4.6	1.6
Tues	9.8	9.8	1.4	8.4	1.4	4.5	1.7
Wed	10.1	10.1	1.4	8.5	1.5	4.5	1.6
Wed	9.8	9.8	1.5	8.2	1.5	4.5	1.7
Thur	9.5	9.5	1.5	8.5	1.4	4.7	1.7
Thur	9.4	9.3	1.5	8.2	1.5	4.6	1.6
Fri	9.2	9.2	1.4	8.4	1.6	4.6	1.8
Fri	9.7	9.7	1.4	9.0	1.5	4.6	1.8
Sat	9.3	9.3	1.4	8.7	1.5	4.5	1.8
Sat	9.7	9.7	1.5	8.4	1.4	4.6	1.7
AVG:	9.9	9.9	1.4	8.4	1.4	4.6	1.6

JDA Bird Counts: 10/28/18 to 11/3/18

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)	
28-Oct	PHFB	0	0	58	26	0	0	24	11	0	0	0	0	0	0	0	0	0	0	0	0	119
28-Oct	SWFB	0	0	304	381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	685
28-Oct	PH1	102	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
28-Oct	PH2	4	23	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
28-Oct	PH3	40	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
28-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		92		385		5		18		0		0		0		0		0		0		997
29-Oct	PHFB	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	31	48
29-Oct	SWFB	0	0	250	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294
29-Oct	PH1	68	41	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
29-Oct	PH2	8	25	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
29-Oct	PH3	62	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
29-Oct	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
29-Oct	SW2	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
29-Oct	SW3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Avg/Survey		113		147		4		19		0		0		0		0		0		16		595
30-Oct	PHFB	0	0	0	373	0	0	11	13	0	0	0	0	0	0	0	0	0	34	35	0	466
30-Oct	SWFB	0	0	298	173	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	473
30-Oct	PH1	103	12	0	0	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
30-Oct	PH2	15	9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
30-Oct	PH3	0	12	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
30-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Oct	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		76		422		17		13		0		0		0		0		17		18		1123
31-Oct	PHFB	0	0	56	480	0	0	15	3	0	0	0	0	0	0	0	0	68	36	0	37	695
31-Oct	SWFB	0	0	61	375	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	4	446
31-Oct	PH1	51	18	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
31-Oct	PH2	183	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
31-Oct	PH3	53	5	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
31-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Oct	SW3	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Avg/Survey		182		486		25		10		0		0		0		0		54		21		1555

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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)	
1-Nov	PHFB	0	0	337	319	0	0	18	3	0	0	0	0	0	0	0	0	75	17	0	16	785
1-Nov	SWFB	0	0	1	411	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	18	448
1-Nov	PH1	127	20	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
1-Nov	PH2	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
1-Nov	PH3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1-Nov	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Nov	SW3	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Avg/Survey		113		534		4		11		0		0		0		0		55		17		1465
2-Nov	PHFB	0	0	387	377	0	0	0	0	0	0	0	0	0	0	0	0	81	23	0	23	891
2-Nov	SWFB	0	0	212	424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	636
2-Nov	PH1	32	22	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
2-Nov	PH2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2-Nov	PH3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Nov	SW3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Avg/Survey		31		700		5		0		0		0		0		0		52		12		1598
3-Nov	PHFB	0	0	202	577	0	0	3	0	0	0	0	0	0	0	0	0	73	72	72	72	1071
3-Nov	SWFB	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195
3-Nov	PH1	3	0	0	544	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	551
3-Nov	PH2	31	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
3-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-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		31		759		2		2		0		0		0		0		73		72		1875
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		1271		6865		120		143		0		0		0		0		501		308		9208
Avg/Survey		91		490		9		10		0		0		0		0		36		22		658

John Day Dam
Avian Zones

