

FISHWAY STATUS REPORT

Date: 1/5/2019
 Inspection Period: 12/30/2018 thru 1/5/2019



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 once per day during winter maintenance, Dec. 1 - Feb. 28.
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	5	Temperature:	42 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			OOS since 11/30. RTS is 1/17.19.			
Exit differential	OOS	≤ 0.5'				
Exit Control weirs	OOS	High setting	High setting is normal for JDN			
Count station differential	OOS	≤ 0.3'				
Weir crest depth (DS gauge)	OOS	1.0' ± 0.1'				
Entrance differential	OOS	1.0' - 2.0'	AVG	#DIV/0!		
SOUTH FISHWAY	0		In service with two AWS turbines and two FOGs. Planned dewatering on 1/22/19.			
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	2.36		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.7		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.2		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.2		
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	All STSs removed for winter maintenance after 12/16/18.			
Turbine trashrack drawdown	0	<1.5', wkly				
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	All gates on seal since 1 December 2018. 2019 Fish Spill season starts on 10 April.			
Spill pattern	0	per FPP	None			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF continues OOS since 11/28/18. RTS is 1 March with first sample date on 2 March 2019.

Maintenance:

SMF SCADA update/mods' by JD Electrical/ Portland District Engineers is underway. Estimated completion by the end of February 2019.

Fallbacks: AVG: 0 MAX: 0 MIN: 0

Bird numbers have declined significantly due to low juvenile shad abundance in winter. See Avian Numbers tab for details.

All 125 avian lines in place without any deficiencies.

Operations:

JD North Fishway continues OOS since 11/30. RTS 17 January 2019.

JD South Fishway in service, with two AWS turbines and two FOGs since 2/28/18. Planned dewatering is on 22 January 2019.

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

Maintenance:

JD North Fishway winter maintenance and LPS improvements contract continue as planned. RTS is on 17 January 2019.

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' .

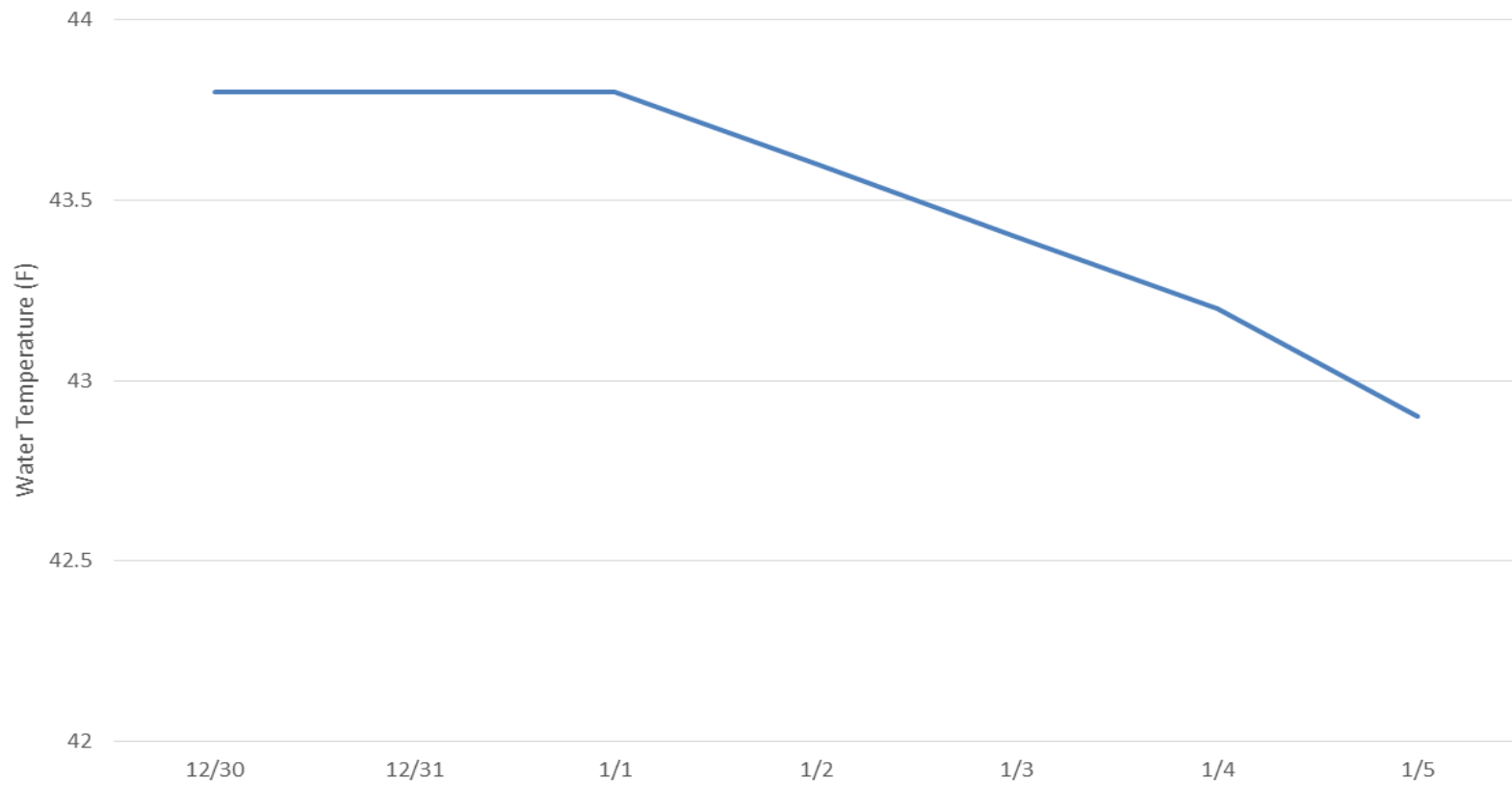
Research:

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

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

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

JDA Tailwater Temperature (F) - (12/30/18 - 1/5/19)



JDA Collection Channel Velocity

Date 2-Jan-19

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:15	75	2.40
2 - 4	2:29	149	2.43
4 - 6	3:48	228	2.28
6 - 8	5:07	307	2.28
8 - 10	6:20	380	2.47
10 - 12	7:40	460	2.25
12 - 14	9:10	550	2.00
14 - 16	10:24	624	2.43
16 - 18	11:30	690	2.73
			2.36

Bay 19 TW: 160.1

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	43	6.0	NA
Mon	43	6.0	NA
Tue	42	6.0	NA
Wed	42	6.0	NA
Thur	42	6.0	NA
Fri	42	6.0	NA
Sat	42	6.0	NA
AVG:	42	AVG: 6.0	AVG/Sample #DIV/0!
			MAX 0
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.1	9.1	1.4	9.0	OOS	4.6	1.5
Sun					OOS		
Mon					OOS		
Mon					OOS		
Tues	9.4	9.4	1.3	8.4	OOS	4.6	1.8
Tues					OOS		
Wed	9.2	9.2	1.5	8.3	OOS	4.5	1.8
Wed					OOS		
Thur	9.4	9.4	1.4	8.3	OOS	4.6	1.6
Thur					OOS		
Fri	9.2	9.2	1.5	8.0	OOS	4.6	1.6
Fri					OOS		
Sat	8.9	8.9	1.4	8.2	OOS	4.6	1.6
Sat					OOS		
AVG:	9.2	9.2	1.4	8.4	#DIV/0!	4.6	1.7

JDA Bird Counts: 12/30/18 to 1/5/19

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)	
30-Dec	PHFB	0	0	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
30-Dec	SWFB	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
30-Dec	PH1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Dec	SW3	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Avg/Survey		0		87		0		25		0		0		0		0		0		0		222
31-Dec	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Dec	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
1-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	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
2-Jan	PHFB	0	0	15	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	42
2-Jan	SWFB	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
2-Jan	PH1	2	0	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
2-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan	SW2	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	43
2-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		1		23		3		35		0		0		0		0		0		0		122

JDA Bird Counts: 12/30/18 to 1/5/19

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)	
3-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan	SWFB	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
3-Jan	PH1	1	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
3-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan	SW2	0	0	0	0	2	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	35
3-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		1		29		3		17		0		0		0		0		0		0		97
4-Jan	PHFB	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
4-Jan	SWFB	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
4-Jan	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan	SW1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4-Jan	SW2	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
4-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		3		20		0		6		0		0		0		0		0		0		57
5-Jan	PHFB	0	0	0	0	2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	32
5-Jan	SWFB	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
5-Jan	PH1	1	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan	SW1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5-Jan	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		1		13		4		15		0		0		0		0		0		0		63
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		10		341		17		193		0		0		0		0		0		0		561
Avg/Survey		2		68		3		39		0		0		0		0		0		0		112

John Day Dam
Avian Zones

