FISHWAY STATUS REPORT

JOHN DAY DAM

Date:	11/10/2018		
Inspection Period:	11/4/2018	thru	11/10/2018

US Army Corps of Engineers Portland District JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

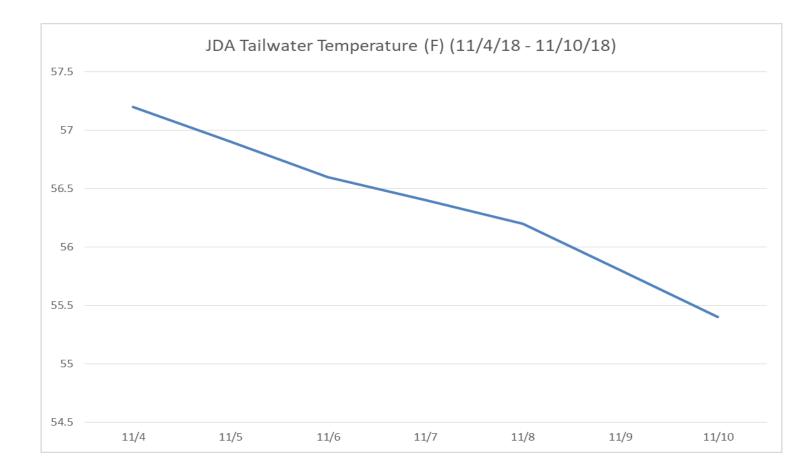
All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.

Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 56 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 8.3
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 9.4
Entrance weir NE2	0	depth (≥ 8')	AVG 9.4
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												
	-						detections will continue thru 29 November. underway. Implementation during this coming winter's outage season. 0					
Birds :												
Typical fall water	birds feed	ing on the a	bundant juvenil	e shad. See	e Avian N	Numbers	s tab for details.					
All 125 avian lines	s in place v	without any	deficiencies.									
Operations:												
ID South Fishway	in service,	, with two A	WS turbines and	two FOG	s since 2,	/28/18. /	Awaiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)					
ID North Ladder i	n service s	since 12/21/	17. 6 out of 6 A	WS pumps	available	e again si	since 4/18/18.					
MU Gatewell Dra	wdowns:	All MUs tr	ashrack differer	itials are 1	.5' or bel	ow acco	ording to twice a week inspections.					
Maintenance:												
MU3 OOS on 10/3	31, 0035 d	ue to STS tri	p. Faulty STS w	as replaced	d with a v	working s	spare and the unit returned to service on 11/2.					
ID South AWS tur	bine 1 is C	OOS, in poor	condition and u	rgently aw	aiting its	overhau	ul as soon as \$ 3 million becomes available (hopefully in a year or two ?)					
Calibration: All ga	auges/ sen	isors are wit	hin the criteria o	of 0.3' .								
Research:												
IDS and JDN Adul	t PIT syste	ms are in se	rvice and detect	ing PIT tag	s since 3	/1/18.						
WDFW NPM angl	ing conclu	ded on 10/7	/18 with a respe	ectable sea	asonal to	tal of 3,0	,089 NPM removed.					
Uof I crew contin	uoc monit	oring the DT			+ hath ID		iehe.					

MOYNAHAN, KEVIN, PATRICK, 1393959157 MOYNAHAN, KEVIN, PATRICK, 1393959157 MOYNAHAN, KEVIN, PATRICK, 1393959157



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)

	Temp:		Secchi:		Fallbacks
Sun	57		6.0		NA
Mon	57		6.0		NA
Tue	57	[6.0		NA
Wed	56	[6.0		NA
Thur	56		6.0		NA
Fri	56		6.0		NA
Sat	56		6.0	[NA
VG:	56	AVG:	6.0	AVG/Sample	#DIV/0!
		-		MAX	0
				MIN	0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.5	9.5	1.4	8.2	1.5	4.6	1.5
Sun	9.6	9.6	1.4	8.4	1.5	4.7	1.8
Mon	9.1	9.1	1.4	8.4	1.5	4.6	1.6
Mon	9.4	9.4	1.4	8.2	1.5	4.6	1.6
Tues	9.3	9.3	1.5	8.0	1.5	4.6	1.7
Tues	9.3	9.3	1.5	8.3	1.5	4.6	1.6
Wed	9.4	9.4	1.4	9.1	1.3	4.6	1.5
Wed	8.8	8.8	1.3	8.1	1.4	4.6	1.4
Thur	9.7	9.7	1.4	8.3	1.3	4.5	1.4
Thur	9.2	9.2	1.4	8.1	1.4	4.6	1.5
Fri	10.2	10.2	1.4	8.7	1.3	4.6	1.6
Fri	9.5	9.5	1.4	8.0	1.4	4.6	1.5
Sat	9.9	9.9	1.5	8.4	1.3	4.6	1.7
Sat	9.0	9.0	1.6	8.2	1.7	4.6	1.8
AVG:	9.4	9.4	1.4	8.3	1.4	4.6	1.6

JDA Bird Counts: <u>11/4/18</u> to <u>11/10/18</u>

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

Date	Zone		Ģ	Gulls			Cori	morant	:		Caspia	n tern			White	e Pelica	an		G	rebe		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)	
4-Nov	PHFB	0	0	577	744	0	0	1	0	0	0	0	0	0	0	0	0	73	73	72	72	1612
4-Nov	SWFB	0	0	495	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530
4-Nov	PH1	2	35	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
4-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		1	.9	92	26	1	2	1	L		0	(0	(0	(0	7	'3	7	2	2182
5-Nov		0	0	455	750	0	0	0	0	0	0	0	0	0	0	0	0	73	73	72	72	1495
	SWFB	0	0	511	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	531
5-Nov		0	65	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
5-Nov	PH2	49	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
5-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-		9		58	1	1	(0		0		0		0	r	'3		2	2170
6-Nov		0	0	0	733	0	0	0	0	0	0	0	0	0	0	0	0	0	87	0	0	820
	SWFB	0	0	855	159	1	0	0	0	0	0	0	0	0	0	0	0	0	0	145	0	1160
6-Nov		44	51	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
6-Nov		19	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
6-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-	r	4		74	1	2)		0	1	0		0		0		4	1	3	2149
7-Nov		11	0	0	105	0	0	18	9	0	0	0	0	0	0	0	0	123	181	0	0	447
	SWFB	0	0	244	231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	475
7-Nov		34	14	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	52
7-Nov		11	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
7-Nov		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7-Nov		3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
7-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Nov		7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Avg/Su	urvey	5	6	29	90	1	1	1	5		0	(0	(0	(0	1	52	(0	1026

JDA Bird Counts: <u>11/4/18</u> <u>to</u> <u>11/10/18</u>

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Date	Zone		Ģ	iulls			Cori	morant	:		Caspia	n tern			White	e Pelica	n		G	rebe		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)	
8-Nov	PHFB	0	0	46	110	0	0	19	4	0	0	0	0	0	0	0	0	0	6	61	0	246
8-Nov	SWFB	0	0	442	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	785
8-Nov	PH1	13	18	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
8-Nov	PH2	23	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
8-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Nov	SW2	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
8-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	3	5	4	71	i	2	1	9	_	0	(0	(0	()		3	3	1	1120
9-Nov		0	0	21	4	0	0	0	0	0	0	0	0	0	0	0	0	93	64	0	0	182
9-Nov	SWFB	0	0	209	329	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	538
9-Nov	PH1	17	3	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
9-Nov	PH2	33	19	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
9-Nov	PH3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
9-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Nov	SW2	3	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	22
9-Nov	SW3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Avg/Su	urvey	4	4	28	82	(6	1	0		0	(0	(0	()	7	'9	()	838
10-Nov		0	0	209	106	0	0	19	0	0	0	0	0	0	0	0	0	92	88	0	0	514
10-Nov	SWFB	0	0	203	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	445
10-Nov	PH1	34	17	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
10-Nov	PH2	18	21	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
10-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Nov	SW1	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
10-Nov	SW2	3	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	21
10-Nov	SW3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Avg/Su	ırvey	5	5	38	80		7	1	9		0	(D	(0	(D	9	0	(D	1101

Totals	Ģ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	719	8178	45	124	0	0	0	0	1026	494	10586
Avg/Survey	51	584	3	9	0	0	0	0	73	35	756

