FISHWAY STATUS REPORT

JOHN DAY DAM

Date:	9/15/2018		
Inspection Period:	9/9/2018	thru	9/1

9/15/2018



JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

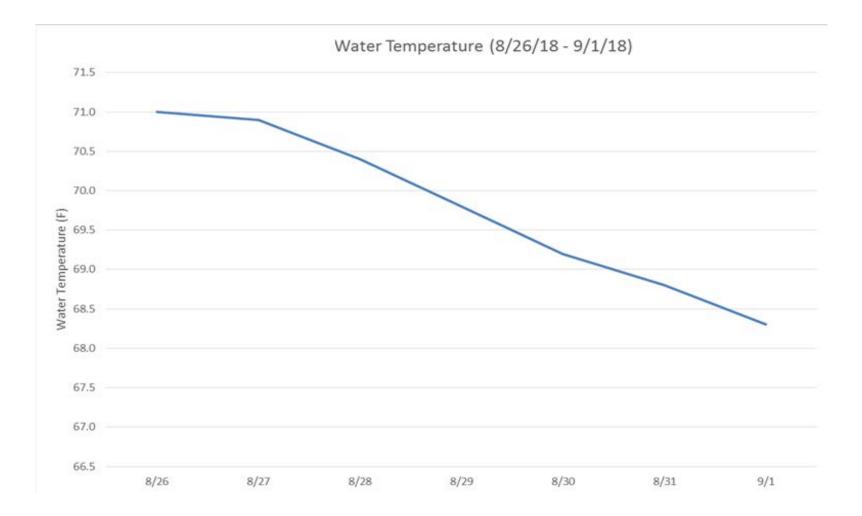
All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.

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

John Day Dam	Inspections	Criteria	Total Number of Inspections: 12 Temperature: 68 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 1.6
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 1.7
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 inpsect.	Monthly STS inspection is scheduled for the week of 24 Sept.
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashrack raking scheduled at the end of September.
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 MON	ITORING FACILITY	
Operation:							
2018 SMF San	npling Season	ended on 9/	/15 (last sample	on 9/14.) I	Bypass at Switc	Gate for full flow PIT detections will continue thru 30 November.	
		investigation	by JD Electrical	/ Portland I	District Enginee	s is underway. Awaiting for \$ 170 K UFR to complete in FY18.	
Research: No	ne						
Fallbacks:	AVG:	0	MAX:	0	MIN:	0	
Birds :							
Almost all Wh	ite pelicans a	Iready gone '	to Lake Chaparr	al, Mexico	for their winter	vacation there. See Avian Numbers tab for details.	
All 125 avian l							
Operations:	•						
JD South Fish	way in service	, with two A	WS turbines and	d two FOGs	since 2/28/18.	Awaiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)	
	-		17. 6 out of 6 A				
MU Gatewell	Drawdowns:	All MUs tr	ashrack differer	itials are 1.	5' or below acc	rding to twice a week inspections.	
Maintenance						č	
JD South AWS	turbine 1 is (JOS, in poor	condition and u	argently awa	aiting its overha	Il as soon as \$ 3 million becomes available (hopefully in a year or two ?)	
			hin the criteria o		0		
Research:	0 0						
JDS and JDN A	dult PIT svste	ems are in se	rvice and detect	ing PIT tags	s since 3/1/18.		
	-		LPS by CRITFC/	• •			
1	-	-	-	-	-		
WDFW NPM a	ingling from J	D PH Tailrace	e deck continue:	s since $5/1$.	Catches improv	ed in September, with a great seasonal total of 3,019 NPM thru 9/23.	

MOYNAHAN, KEVIN, PATRICK, 1393959157 MOYNAHAN, KEVIN, PATRICK, 1393959157 WERTFY authenticity, with Approvert ICK, 1393959157



JDA Collection Channel Velocity

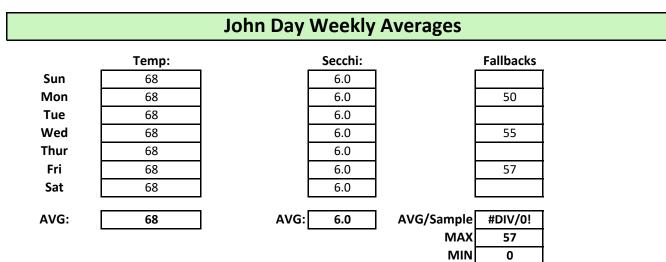
Date	24-Aug-18
By:	MDL

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)





	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.6	8.6	1.5	8.0	1.6	4.6	1.8
Sun	9.2	9.2	1.4	9.0	1.5	4.6	1.6
Mon	8.7	8.7	1.4	8.4	1.6	4.6	1.6
Mon							
Tues	8.5	8.5	1.5	8.8	1.6	4.5	1.7
Tues							
Wed	8.8	8.8	1.5	8.7	1.5	4.5	1.7
Wed	9.2	9.2	1.3	9.2	1.6	4.6	1.6
Thur	8.7	8.7	1.4	8.3	1.7	4.6	1.6
Thur	8.8	8.8	1.6	8.2	1.6	4.5	1.8
Fri	9.3	9.3	1.3	8.9	1.5	4.6	1.6
Fri	9.1	9.1	1.4	8.8	1.6	4.6	1.6
Sat	9.3	9.3	1.5	8.9	1.4	4.6	1.7
Sat	9.5	9.5	1.4	8.7	1.5	4.6	1.5
AVG:	9.0	9.0	1.4	8.7	1.6	4.6	1.7

JDA Bird Counts: <u>9/9/18</u> to <u>9/15/18</u>

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

Date	Zone		G	iulls			Cor	morant	:		Caspia	an 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)	
9-Sep	PHFB	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
9-Sep	SWFB	0	0	54	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	70
9-Sep	PH1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
9-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep	PH3	0	8	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	12
9-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
9-Sep	SW3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Avg/Su	irvey	1		2	.7	()	1	3	_	0	(0	4	4	(0	(0	(0	114
10-Sep	PHFB	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
10-Sep	SWFB	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
10-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep	PH3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
10-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		4	1	-	6	()		5	1	0	(0		0	(0		0		0	91
11-Sep		0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			5	-	31	-))		0		0		0		0		0		0	73
12-Sep		0	0	4	7	0	0	35	0	0	0	0	0	0	0	0	0	49	0	0	36	131
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-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	6	0	18	0	0	0	0	25	18	131

JDA Bird Counts: <u>9/9/18</u><u>to</u> <u>9/15/18</u>

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

Date	Zone		G	iulls			Cor	morant			Caspia	an tern			White	e Pelica	in		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)	
13-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	52	124
13-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Sep	PH1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
13-Sep	PH2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
13-Sep	PH3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
13-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
13-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	irvey	4	1	(0		2	()		0	(0	(0	ļ	5	-	0	6	52	143
14-Sep	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	52	101
14-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Sep	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Sep	PH2	7	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
14-Sep	PH3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
14-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			3	(0	1	L	()		0	(0	(0	()	(0		51	117
15-Sep	PHFB	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	54	50	113
15-Sep	SWFB	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
15-Sep	PH1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
15-Sep	PH2	3	8	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	14
15-Sep	PH3	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
15-Sep	SW1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15-Sep	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Sep	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	1	5	2	3	1	L	5	5		0	(0	:	2	(0	(0	5	52	192

Totals	Ŭ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	97	244	6	81	0	0	10	9	49	365	861
Avg/Survey	7	17	0	6	0	0	1	1	4	26	62