


FISHWAY STATUS REPORT

Date: 7/7/2018
 Inspection Period: 7/1/2018 thru 7/7/2018



**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: 67 F
	Out of Criteria	Limit		Secchi: 5.1 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	1.3' ± 0.1'	1.3' for shad passage since 5/24	
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	1.3' ± 0.1'	1.3' for shad passage since 5/24	
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.2	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.53	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.7	
Entrance weir NE1	0	depth (≥ 8')	AVG 10.1	
Entrance weir NE2	0	depth (≥ 8')	AVG 10.1	
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	June STS inspection completed 6/18. One bad STS at MU1 replaced with working spare.	
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashracks raking completed on 6/27. Very little debris was raked of the trashracks.	
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	per FPP	Summer spill operations started on 6/16 per FOP.	
Spill pattern	0	per FPP	Two TSWs, bays 18 & 19 open since 4/10/18 AM.	
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation:

SMF is in every other day/ 24 hrs sampling mode. The Switch Gate is moved between sampling and bypass every day, AM.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway. Awaiting for \$ 170 K UFR to complete in FY18.

Research: None

Birds :

White pelicans continue increasing on the island downstream of BRZ and inside of the BRZ. See Avian Numbers tab for details.

All 125 avian lines in place without any deficiencies. USDA boat hazing commenced on 4/16 and will continue 7 days a week thru 7/31.

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.

JD North LPS was started up on 6/20 AM. It is monitored by JD Fisheries with CRITFC retaining all unmarked adult lamprey for the tribal replanting programs.

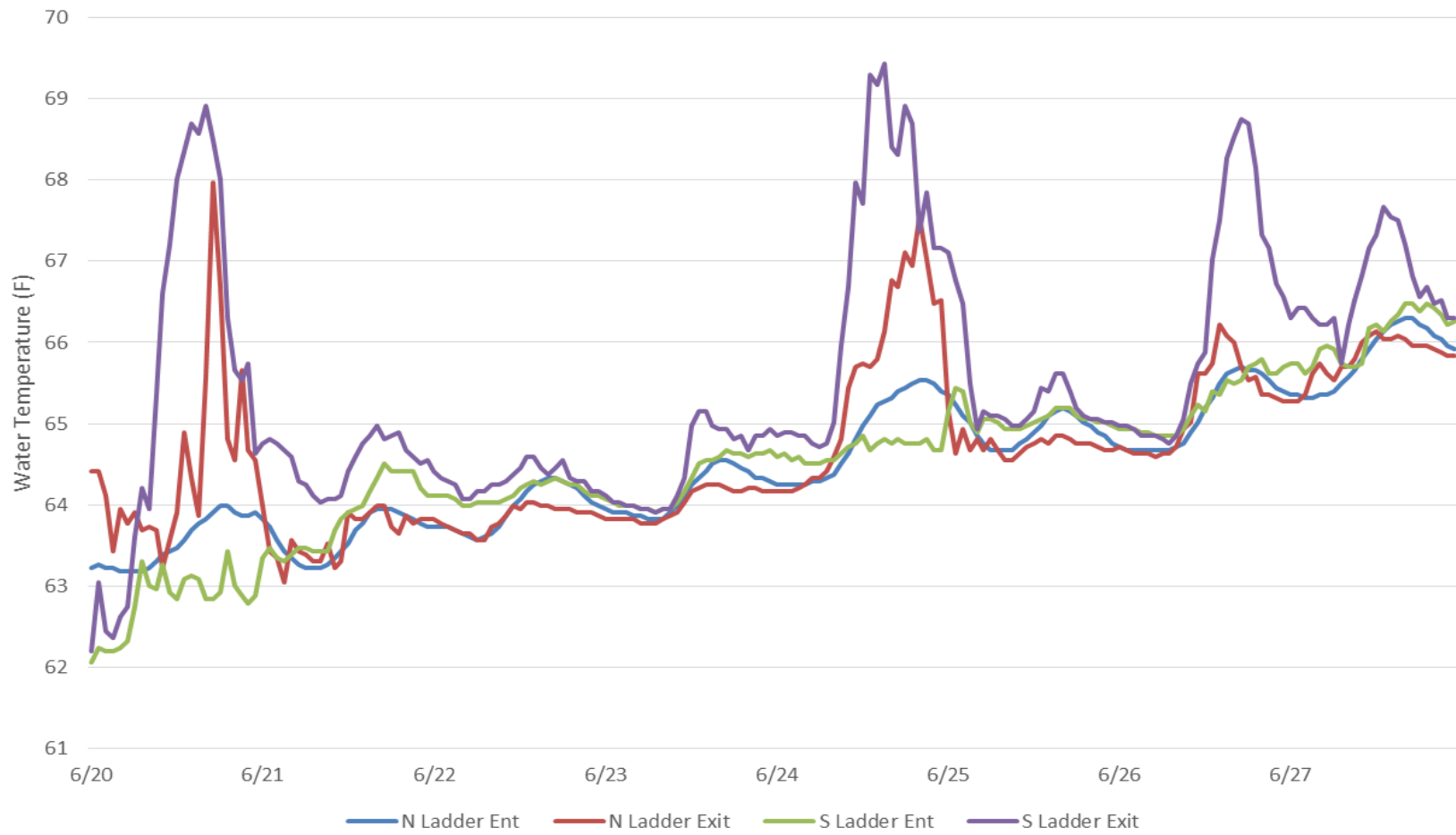
Catches were great over the weekend with first day, 6/21 at 30, and then the high of 86 fish caught on Saturday 6/23.

WDFW NPM angling from JD PH Tailrace deck continues since 5/1. Catches increased significantly in June s with 988 NPM caught thru 7/01.

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 Fishladder Water Temperatures (6/20/18 - 6/27/18)



JDA Collection Channel Velocity

Date 29-Jun-18

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:09	69	2.61
2 - 4	2:16	136	2.69
4 - 6	3:32	212	2.37
6 - 8	4:51	291	2.28
8 - 10	6:15	375	2.14
10 - 12	7:24	444	2.61
12 - 14	8:35	515	2.54
14 - 16	9:44	584	2.61
16 - 18	10:46	646	2.90
			2.53

Bay 19 TW: 161.7
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	5.5	500
Mon	66	5.5	
Tue	66	5.0	375
Wed	67	5.0	
Thur	67	5.0	270
Fri	67	5.0	
Sat	67	5.0	266
AVG:	67	AVG: 5.1	AVG/Sample 266
			MAX 500
			MIN 240

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.5	9.5	1.7	8.3	1.4	4.5	1.8
Sun	9.1	9.1	1.4	8.2	1.6	4.6	1.8
Mon	10.1	10.1	1.4	8.3	1.5	4.6	1.4
Mon	10.3	10.3	1.5	8.0	1.5	4.6	1.4
Tues	10.9	10.8	1.3	8.7	1.7	4.6	1.4
Tues	10.8	10.8	1.3	8.0	1.5	4.7	1.6
Wed	9.8	9.8	1.4	8.1	1.7	4.5	1.7
Wed	10.2	10.2	1.3	8.0	1.6	4.6	1.6
Thur	9.2	9.2	1.5	8.1	1.4	4.6	1.9
Thur	10.5	10.5	1.5	8.1	1.4	4.5	1.8
Fri	9.7	9.7	1.5	8.2	1.5	4.6	1.7
Fri	11.3	11.3	1.4	8.5	1.5	4.6	1.6
Sat	9.1	9.1	1.3	8.0	1.5	4.6	1.6
Sat	10.3	10.3	1.5	8.2	1.4	4.6	1.8
AVG:	10.1	10.1	1.4	8.2	1.5	4.6	1.7

JDA Bird Counts: 7/1/18 to 7/7/18

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)	
1-Jul	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	24	22	0	0	47
1-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul	PH1	4	1	0	0	0	0	0	0	0	0	0	0	13	7	0	0	0	0	0	0	25
1-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	12	16	0	0	0	0	0	0	28
1-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
1-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
1-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	5	0	0	0	0	12
1-Jul	SW3	0	1	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	34
Avg/Survey		3		0		0		0		0		0		52		3		23		0		161
2-Jul	PHFB	6	1	0	0	0	0	0	0	0	0	0	0	6	0	0	2	18	23	0	0	56
2-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jul	PH1	7	4	0	0	0	0	0	0	0	0	0	0	10	13	0	0	0	0	0	0	34
2-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	23	33	0	0	0	0	0	0	56
2-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	20	16	0	0	0	0	0	0	36
2-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
2-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	1	16	0	0	0	0	0	0	17
2-Jul	SW3	0	0	0	0	0	0	0	0	0	0	0	0	42	26	0	0	0	0	0	0	68
Avg/Survey		9		0		0		0		0		0		106		1		21		0		273
3-Jul	PHFB	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	22	25	0	0	49
3-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jul	PH1	1	0	0	0	0	0	0	0	0	0	0	0	11	15	0	0	0	0	0	0	27
3-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	15	10	0	0	0	0	0	0	25
3-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	0	0	11
3-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
3-Jul	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Avg/Survey		1		1		0		0		0		0		37		0		24		0		123
4-Jul	PHFB	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	7	0	0	33
4-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
4-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	52	22	0	0	0	0	0	0	74
4-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	16	3	0	0	0	0	0	0	19
4-Jul	SW3	3	1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	9
Avg/Survey		5		0		0		0		0		0		51		0		14		0		138

JDA Bird Counts: 7/1/18 to 7/7/18

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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)	
5-Jul	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	17	14	0	0	35
5-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	5
5-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	45	10	0	0	0	0	0	0	55
5-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	72	8	0	0	0	0	0	0	80
5-Jul	SW3	2	2	0	0	0	0	0	0	0	0	0	0	33	16	0	0	0	0	0	0	53
Avg/Survey		2		0		0		0		0		0		97		0		16		0		228
6-Jul	PHFB	14	0	0	12	0	0	0	0	0	0	0	0	1	0	0	0	22	14	0	0	63
6-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
6-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	8	2	0	0	0	0	0	0	10
6-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	51	14	0	0	0	0	0	0	65
6-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	55	6	0	0	0	0	0	0	61
6-Jul	SW3	0	4	0	0	0	0	0	0	0	0	0	0	44	3	0	0	0	0	0	0	51
Avg/Survey		9		6		0		0		0		0		94		0		18		0		253
7-Jul	PHFB	0	0	8	0	0	0	0	0	0	0	0	0	0	1	0	0	17	14	0	0	40
7-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
7-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	11	3	0	0	0	0	0	0	14
7-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	46	7	0	0	0	0	0	0	53
7-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	51	18	0	0	0	0	0	0	69
7-Jul	SW3	0	0	0	0	0	0	0	0	0	0	0	0	58	6	0	0	0	0	0	0	64
Avg/Survey		0		4		0		0		0		0		102		0		16		0		243
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		57		22		0		0		0		0		1073		8		259		0		1419
Avg/Survey		4		2		0		0		0		0		77		1		19		0		101