

FISHWAY STATUS REPORT

Date: 10/14/2017
 Inspection Period: 10/8/2017 thru 10/14/2017



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:	62 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps available since 1/19/17.			
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	1.5		
SOUTH FISHWAY			In service since 3/3/17 with 2 out of 3 AWS turbines available.			
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	8.9		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.23		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.1		
Entrance weir NE2	0	depth (≥ 8')	AVG	8.9		
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	STS camera inspection is scheduled for the next week, 17 OCT			
Turbine trashrack drawdown	0	<1.5', wkly				
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.			
Spill pattern	0	per FPP	Bay 2 only.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF sampling concluded for the 2017 season on 15 September. SMF continues in bypass at Switch Gate for PIT detections through 30 November.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: None**Birds :**

see the Avian Numbers tab.

6 Tower-to-Tower, 6 spillway (1 failed 23 August,) 4 Navlock and 4 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.

Trashrack Crane in service since 6/01/17.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway in service with all 6 AWS pumps available and meeting all FPP criteria since 1/19/17.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational condition until it's replaced with a brand new machine. However, the \$ 5 million for its replacement is not yet available.

Calibration: All gauges/ sensors are within the criteria of 0.3' .

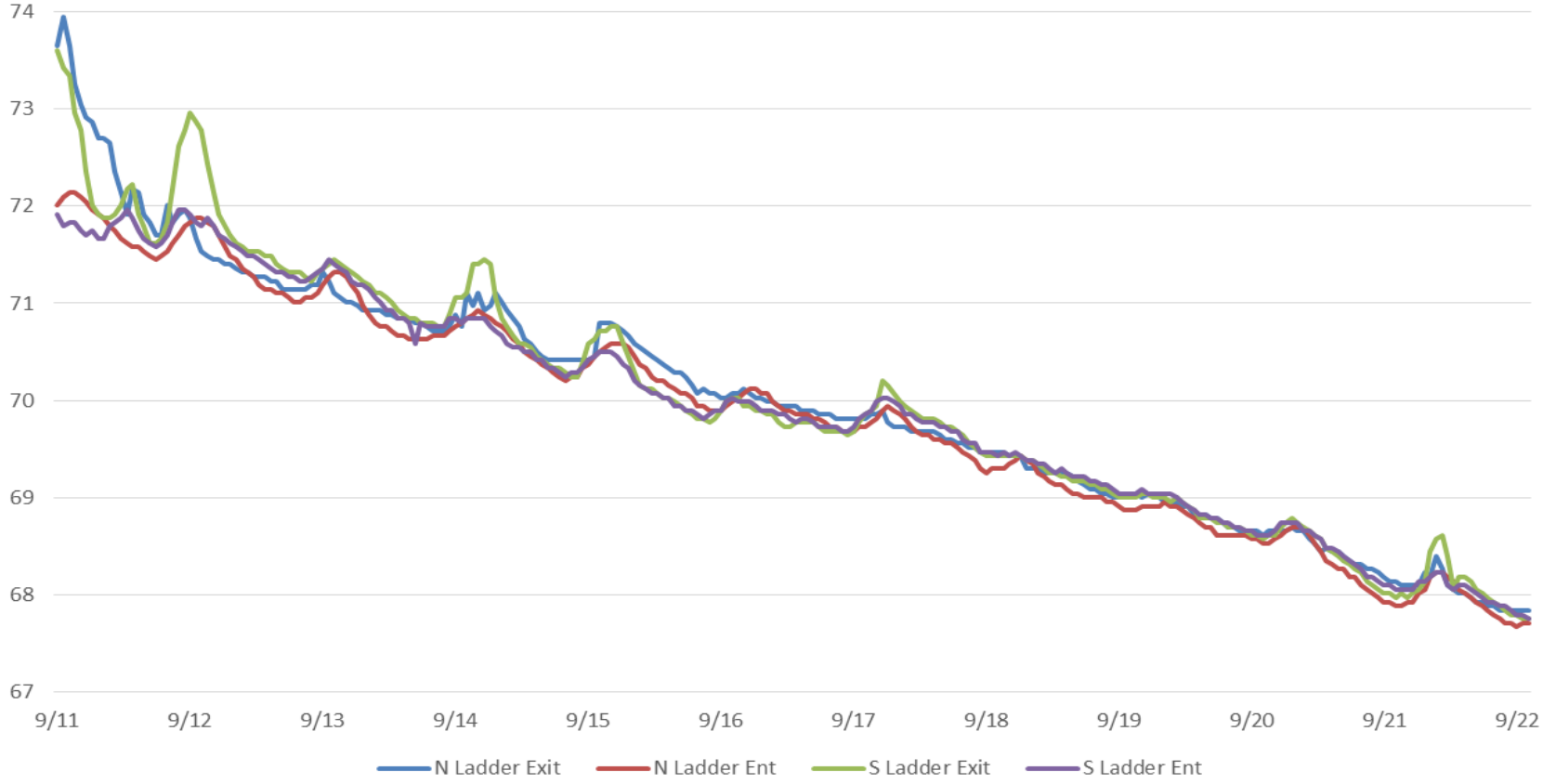
Research:

WDFW angling crew continues the pikeminnow removal from JD PH tailrace since 5/15. **Great annual catch of 3,472 NPM total by 10/08/17.**

Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources. Phase 2 support contract to install building/ office spaces plus electrical and Gorgenet hookups underway since 7 August.

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

Fishladder Water Temps JDA (9/11/17 - 9/22/17)



JDA Collection Channel Velocity

Date 21-Sep-17

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:17	77	2.34
2 - 4	2:42	162	2.12
4 - 6	4:09	249	2.07
6 - 8	5:31	331	2.20
8 - 10	6:54	414	2.17
10 - 12	8:15	495	2.22
12 - 14	9:36	576	2.22
14 - 16	10:58	658	2.20
16 - 18	12:09	729	2.54
			2.23

TW Bay19 = 159.9

RPMs 68/68 (2&3) (1 @ 0)

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	63	6.0	NA
Mon	62	6.0	NA
Tue	62	6.0	NA
Wed	62	6.0	NA
Thur	62	6.0	NA
Fri	61	6.0	NA
Sat	61	6.0	NA
AVG:	62	6.0	AVG: NA
			MAX: NA
			MIN: NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.7	8.6	1.3	8.9	1.6	4.6	1.8
Sun	9.1	9.0	1.1	9.3	1.5	4.5	1.7
Mon	9.5	9.4	1.2	9.7	1.5	4.6	1.2
Mon	9.2	9.1	1.2	9.5	1.6	4.5	1.5
Tues	9.3	9.2	1.4	9.5	1.4	4.7	1.4
Tues	9.1	9.0	1.5	9.3	1.4	4.6	1.5
Wed	8.4	8.5	1.6	8.4	1.4	4.6	1.5
Wed	9.0	8.7	1.5	8.4	1.4	4.5	1.5
Thur	9.7	9.4	1.4	8.9	1.5	4.6	1.6
Thur	9.4	9.1	1.4	8.8	1.5	4.6	1.6
Fri	9.0	8.7	1.4	8.5	1.5	4.6	1.7
Fri	9.0	8.7	1.3	8.4	1.6	4.6	1.7
Sat	8.8	8.5	1.4	8.6	1.6	4.6	1.7
Sat	8.7	8.4	1.4	8.4	1.6	4.6	1.8
AVG:	9.1	8.9	1.4	8.9	1.5	4.6	1.6

JDA Bird Counts: 10/8/17 to 10/14/17

F(1): Forage AM survey F(2): Forage PM Survey 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)	
8-Oct	PHFB	0	0	120	335	0	0	0	0	0	0	0	0	0	0	0	0	77	74	78	75	759
8-Oct	SWFB	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	3	9
8-Oct	PH1	21	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
8-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-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		23		229		0		1		0		0		0		0		77		78		814
9-Oct	PHFB	0	0	7	95	0	0	5	2	0	0	0	0	0	0	0	0	77	0	78	0	264
9-Oct	SWFB	0	0	111	255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
9-Oct	PH1	55	33	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
9-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Oct	PH3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
9-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Oct	SW3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Avg/Survey		51		234		3		4		0		0		0		0		39		39		737
10-Oct	PHFB	0	0	0	99	0	0	0	0	0	0	0	0	0	0	0	0	64	77	64	78	382
10-Oct	SWFB	0	0	97	59	0	0	0	0	0	0	0	0	0	0	0	0	13	0	14	0	183
10-Oct	PH1	37	18	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
10-Oct	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Oct	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Oct	SW2	0	0	0	0	15	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	62
10-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		28		128		12		24		0		0		0		0		77		78		690
11-Oct	PHFB	0	69	0	0	0	0	16	0	0	0	0	0	0	0	0	0	134	130	0	0	349
11-Oct	SWFB	0	0	303	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	675
11-Oct	PH1	10	22	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
11-Oct	PH2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
11-Oct	PH3	0	0	0	0	42	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	95
11-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Oct	SW3	0	0	0	7	0	0	31	53	0	0	0	0	0	0	0	0	0	0	0	0	91
Avg/Survey		57		341		23		77		0		0		0		0		132		0		1257

JDA Bird Counts: 10/8/17 to 10/14/17

F(1): Forage AM survey F(2): Forage PM Survey 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)	
12-Oct	PHFB	0	0	11	11	0	0	35	1	0	0	0	0	0	0	0	0	0	93	152	0	303
12-Oct	SWFB	0	0	347	133	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	482
12-Oct	PH1	10	28	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
12-Oct	PH2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
12-Oct	PH3	0	0	0	0	0	0	27	23	0	0	0	0	0	0	1	0	0	0	0	0	51
12-Oct	SW1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12-Oct	SW2	0	0	0	0	0	0	7	47	0	0	0	0	0	0	0	0	0	0	0	0	54
12-Oct	SW3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Avg/Survey		23	252	4	73	0	0	0	1	47	76	948										
13-Oct	PHFB	0	0	37	9	1	0	23	13	0	0	0	0	0	0	141	113	0	0	0	0	337
13-Oct	SWFB	0	0	479	511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	990
13-Oct	PH1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
13-Oct	PH2	10	17	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
13-Oct	PH3	0	7	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	58
13-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Oct	SW2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
13-Oct	SW3	0	0	0	0	0	0	32	27	0	0	0	0	0	0	0	0	0	0	0	0	59
Avg/Survey		19	518	5	73	0	0	0	0	127	0	1482										
14-Oct	PHFB	0	0	0	88	0	0	12	0	0	0	0	0	0	0	119	110	0	0	0	0	329
14-Oct	SWFB	0	0	617	681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1298
14-Oct	PH1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14-Oct	PH2	25	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
14-Oct	PH3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
14-Oct	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Oct	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Oct	SW3	0	0	0	13	0	0	31	51	0	0	0	0	0	0	0	0	0	0	0	0	95
Avg/Survey		29	700	1	47	0	0	0	0	115	0	1780										
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total		456	4800	90	594	0	0	0	1	1225	542	7708										
Avg/Survey		33	343	6	42	0	0	0	0	88	39	551										