


FISHWAY STATUS REPORT

Date: 5/14/2016
Inspection Period: 5/8/2016 thru 5/14/2016



**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 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:	57 F
	Out of Criteria	Limit			Secchi:	5.3 Ft.
NORTH FISHWAY			In service; 5 AWS pumps available; # 5 OOS due to oil leak			
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			AWS turbine 2 returned to service/NE 2 gate opened on 3/31. FOGs # 18 & 19 continue closed.			
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	9.7		
Collection channel velocity	0	1.5 - 4 fps	AVG	3.78		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.5		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.5		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.5		
JUVENILE PASSAGE			In service with STSs installed since 4/1			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	Next monthly STS camera inspection scheduled for the week of 5/23/16			
Turbine trashrack drawdown	0	<1.5', wkly	Moderate volume of river debris			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	N/A	2016 Spill season started on 4/10/16 at 0001; TSWs in bays 18 & 19 in service.			
Spill pattern	0	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

In service since 1 April. Every other day sampling by PSMFC biologists in 2016; JD Fisheries crew moves the Switch Gate between sample-bypass modes daily AM.

Maintenance:

No major maintenance issues to report. PDS screen cleaners have been working well.

SMF SCADA's investigation by JD Electrical underway. There is a current UFR of \$ 150 K, for the SCADA update's P&S.

Research:

None

Fallbacks: AVG: 54 MAX: 66 MIN: 39

OTHER JOHN DAY ISSUES:

Birds :

see the Avian Numbers tab. We report all species and locations, but in reality only gulls in the tailrace BRZ are relevant at JD.

15 Navlock and Spillway lines are missing out of 125 grid's total; no funding is available to reinstall for 2016 season. UFR for \$ 250K is pending.

New in April 2016, the JD Avian Lines Improvements' PDT will assess their reliability and design a better/ cheaper methods for their maintenance.

USDA boat avian hazing downstream of JD Tailrace BRZ commenced on 4/29; light gull presence so far.

Operations:

JBS and SMF in regular operation since 1 April as required by FPP.

JD North fishway has been meeting all FPP criteria since 1/5/16.

JD South Fishway in service with two out of three AWS turbines; FOGs 18 & 19 continue closed due to insufficient AWS.

MU Gatewell Drawdowns: Twice a week or more frequently as necessary.

Maintenance:

JD North Fishway AWS Pump# 4 install complete on 5/12/16! Pump # 5 OOS due to gearbox's oil leak; it will be repaired soon

JD South Fishway AWS turbine 1 OOS long term due to failed pump's lower bearing. Awaiting special funding for its overhaul/replacement.

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

Research:

Washington F&W dam angling crew commenced NPM (pikeminnow) removal from JD PH tailrace on 5/10/16.

Adult Fish Counting by Normandeau Associates commenced on 1 April 2016.

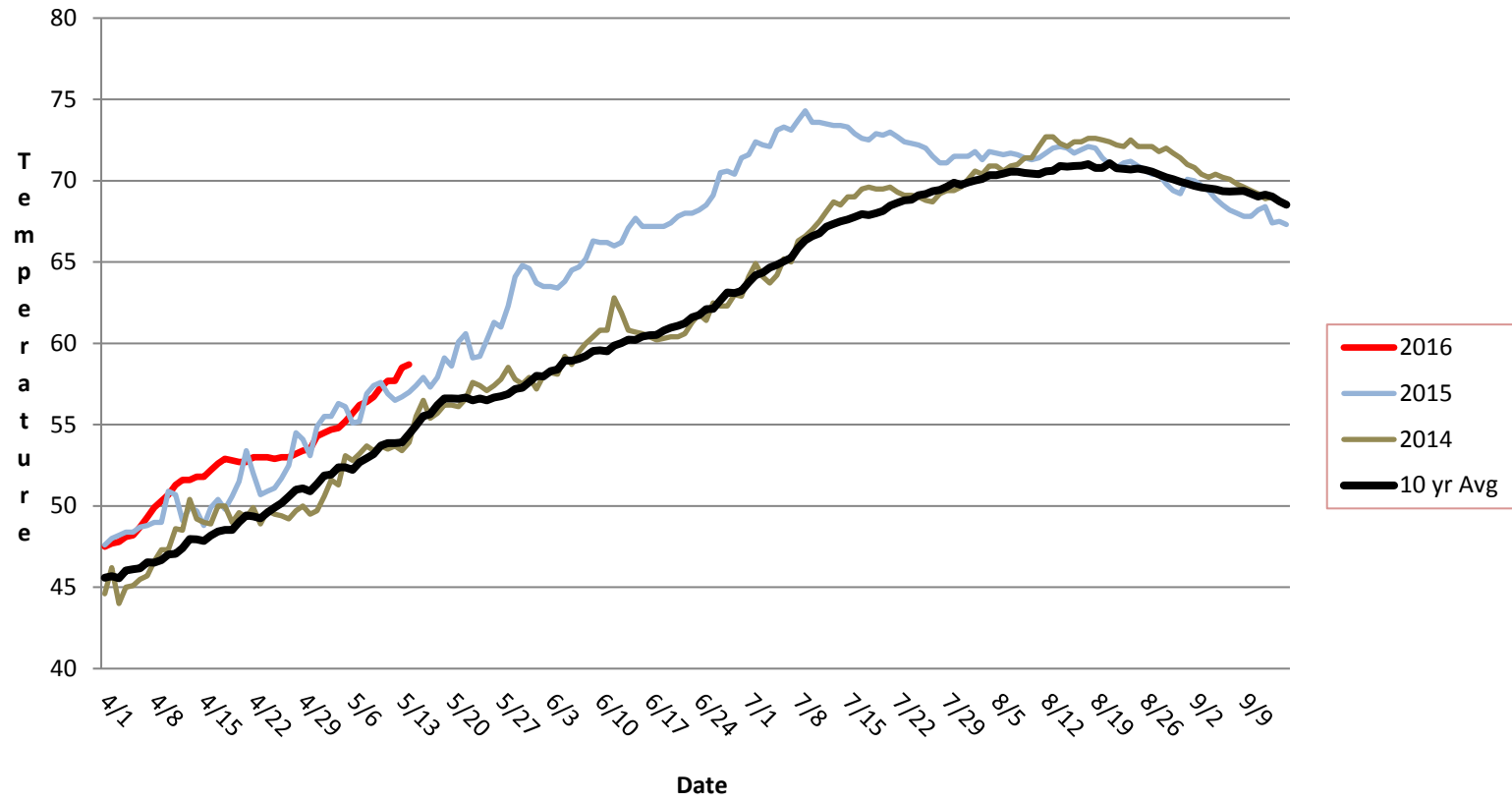
Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is at the design/PDT level.

Kevin Moynahan

OPM John Day/Willow Creek Project

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

JDA SMF Water Temp



JDA Collection Channel Velocity

Date	<i>12-May-16</i>
By:	<i>JD</i>

Bay(s)	Time	Sec.	Velocity (f/s)
<i>0-2</i>	<i>0:53</i>	<i>57</i>	<i>3.16</i>
<i>2 - 4</i>	<i>1:35</i>	<i>100</i>	<i>4.19</i>
<i>4 - 6</i>	<i>2:24</i>	<i>150</i>	<i>3.60</i>
<i>6 - 8</i>	<i>3:11</i>	<i>196</i>	<i>3.91</i>
<i>8 - 10</i>	<i>4:02</i>	<i>245</i>	<i>3.67</i>
<i>10 - 12</i>	<i>4:48</i>	<i>292</i>	<i>3.83</i>
<i>12 - 14</i>	<i>5:36</i>	<i>341</i>	<i>3.67</i>
<i>14 - 16</i>	<i>6:24</i>	<i>387</i>	<i>3.91</i>
<i>16 - 18</i>	<i>7:09</i>	<i>431</i>	<i>4.09</i>
			3.78

NE TW	163.2
#2 RPM	62
#3 RPM	62

JDA Bird Counts: 5/8/16 to 5/14/16

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-May	PHFB	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	29	25	0	0	68	
8-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
8-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
8-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
8-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
8-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
8-May	SW2	35	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		112
8-May	SW3	20	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		50
Avg/Survey		81		7		0		0		0		0		0		0		27		0		230	
9-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	25	0	0	53	
9-May	SWFB	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		5
9-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
9-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
9-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
9-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
9-May	SW2	49	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		139
9-May	SW3	20	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		87
Avg/Survey		113		3		0		0		0		0		0		0		27		0		284	
10-May	PHFB	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	25	30	0	0	63	
10-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
10-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
10-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
10-May	PH3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		2
10-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
10-May	SW2	0	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		20
10-May	SW3	0	37	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		49
Avg/Survey		24		16		0		0		0		0		0		0		28		0		134	
11-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	10	8	36	
11-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		3
11-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
11-May	PH2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		2
11-May	PH3	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		20
11-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
11-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
11-May	SW3	36	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		45
Avg/Survey		34		0		0		0		0		0		0		0		9		11		106	

JDA Bird Counts: 5/8/16 to 5/14/16

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-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9	11	24	18	63
12-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12-May	PH3	5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
12-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	SW3	16	14	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	33
Avg/Survey		23	0	0	0	0	0	0	0	2	1	10	21					112				
13-May	PHFB	0	0	3	3	0	0	0	0	0	0	0	0	0	0	9	7	10	11			43
13-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	PH3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
13-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	SW3	14	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Avg/Survey		14	3	0	0	0	0	0	0	0	0	8	11					71				
14-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	10	8	8			42
14-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May	PH2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14-May	PH3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May	SW2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14-May	SW3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Avg/Survey		8	0	0	0	0	0	0	0	0	0	13	8					57				
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		592	56	0	0	0	0	0	0	3	1	242	100					994				
Avg/Survey		42	4	0	0	0	0	0	0	0	0	17	7					71				

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	56	5.5	
Mon	56	5.5	58
Tue	56	5.5	
Wed	58	5.0	66
Thur	58	5.0	
Fri	58	5.0	39
Sat	59	5.5	
AVG:	57	AVG: 5.3	AVG 54
			MAX 66
			MIN 39

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.5	10.6	1.4	10.0	1.4	4.6	1.3
Sun	9.9	10.0	1.5	9.6	1.6	4.6	1.4
Mon	9.7	9.8	1.5	9.2	1.4	4.6	1.6
Mon	10.4	10.5	1.3	10.0	1.5	4.6	1.3
Tues	9.7	9.6	1.5	9.0	1.6	4.6	1.7
Tues	9.8	9.8	1.4	9.3	1.4	4.5	1.5
Wed	9.7	9.5	1.2	9.6	1.5	4.6	1.8
Wed	9.2	9.2	1.6	8.7	1.7	4.6	1.5
Thur	9.0	9.0	1.3	9.8	1.5	4.5	1.6
Thur	9.4	9.4	1.3	10.2	1.5	4.6	1.5
Fri	9.1	9.1	1.3	10.2	1.7	4.6	1.4
Fri	8.5	8.5	1.4	9.8	1.6	4.6	1.7
Sat	8.3	8.3	1.1	10.5	1.6	4.6	1.7
Sat	9.4	9.4	1.4	10.4	1.5	4.5	1.6
AVG:	9.5	9.5	1.4	9.7	1.5	4.6	1.5