

FISHWAY STATUS REPORT

Date: 5/30/2015
 Inspection Period: 5/24 thru 5/30/2015

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.



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

John Day Dam	Inspections	Criteria	Total Number of Inspections:	Temperature:
	Out of Criteria	Limit	14	60 F
				Secchi: 5.7 Ft.
NORTH FISHWAY			5 out of 6 AWS pumps available since 12/23/14	
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'	1.3' for shad passage since 5/27	
Entrance differential	0	1.0' - 2.0'	AVG 1.5	
SOUTH FISHWAY			3 AWS Turbines in regular service since 2/28/15	
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'	1.3' for shad passage since 5/26	
South entrance differential	0	1.0' - 2.0'	AVG 1.5	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.8	
Collection channel velocity	0	1.5 - 4 fps	AVG 3.35	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.8	
Entrance weir NE1	0	depth (≥ 8')	AVG 8.2	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.9	
JUVENILE PASSAGE			In regular service with all required STSs since 3/23	
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect	Monthly STS camera inspection complete by 5/21; one STS w/torn mesh replaced with spare	
Turbine trashrack drawdown	0	<1.5', wkly	Monthly MU trashrack raking complete by 5/28. Light debris loads continue.	
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	30/40 %	Fish spill and TSWs' operation continues since 4/10/15 per FOP	
Spill pattern	0	per FPP	Per 2015 FOP	
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation:

SMF in sampling mode since 3/31 AM. 24 hrs/ 7 days a week sampling by PSMFC as required by FPP.

JD Fisheries crew continues 24/7 swing shift schedule as required by FPP; it will continue this until the end of sampling season on 9/15.

Debris load: very little debris.

Maintenance:

All devices working well without any issues at this time

Research:

None

Fallbacks: AVG: 40 MAX: 50 MIN: 28

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.

USADA avian hazing from a boat began 4/16. Typical hazing shifts are 06:00 - 14:30 and as there are almost no gulls inside or even near of BRZ during that time.

But their afternoon presence has been steadily increasing ; the number of gulls has reached up to 100, mostly on the edge of JD avian grid.

Operations:

JD North Fishway in regular service; 5 out of 6 AWS pumps are available. Repair work on pump 4 continues; pump 3 has vibration issues and should be the last last in service. AWS pumps tripped due to unknown computer program/ control issues and all were OOS for approximately 20 minutes on 5/18 AM.

Similar, short outages occurred twice the previous week; an overall impact on fish passage at JD North is minimal. An investigation by Portland's engineers underway.

JBS in regular service since 3/27.

JD South Fishway in regular service with 3 AWS Turbines; it is meeting the optimal FPP criteria.

MU Gatewell Drawdowns: Differentials are checked Wednesdays and Sundays; all gatewells were in criteria.

Maintenance:

JD North AWS pumps: five out of total six are available. Repair of AWS pump # 4 by a contractor started on 1/26 & is ongoing.

An HVAC contractor inspected the two AC units at JD N AWS Pumps Substation on 5/26. Both units were found to be in good condition; their performance issues have been due to the dirt and debris accumulation on the heat exchanger coils. They will require more frequent, deep cleaning with pressurized water.

Currently one AC unit is in service and the second awaits a few control board parts, which are expected within a few weeks and on time before the hot weather arrives.

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

Research:

2015 Adult Fish Counting by Normandeau Associates commenced on 1 April, 2015 and will continue daily through 1 November.

Lamprey trapping and collection of adults & juveniles for various tribal and non-tribal studies are currently coordinated by JD Fisheries. Expected to commence in early June.

Dam angling to remove NPM from JD PH tailrace, by a crew from Washington F&W underway.

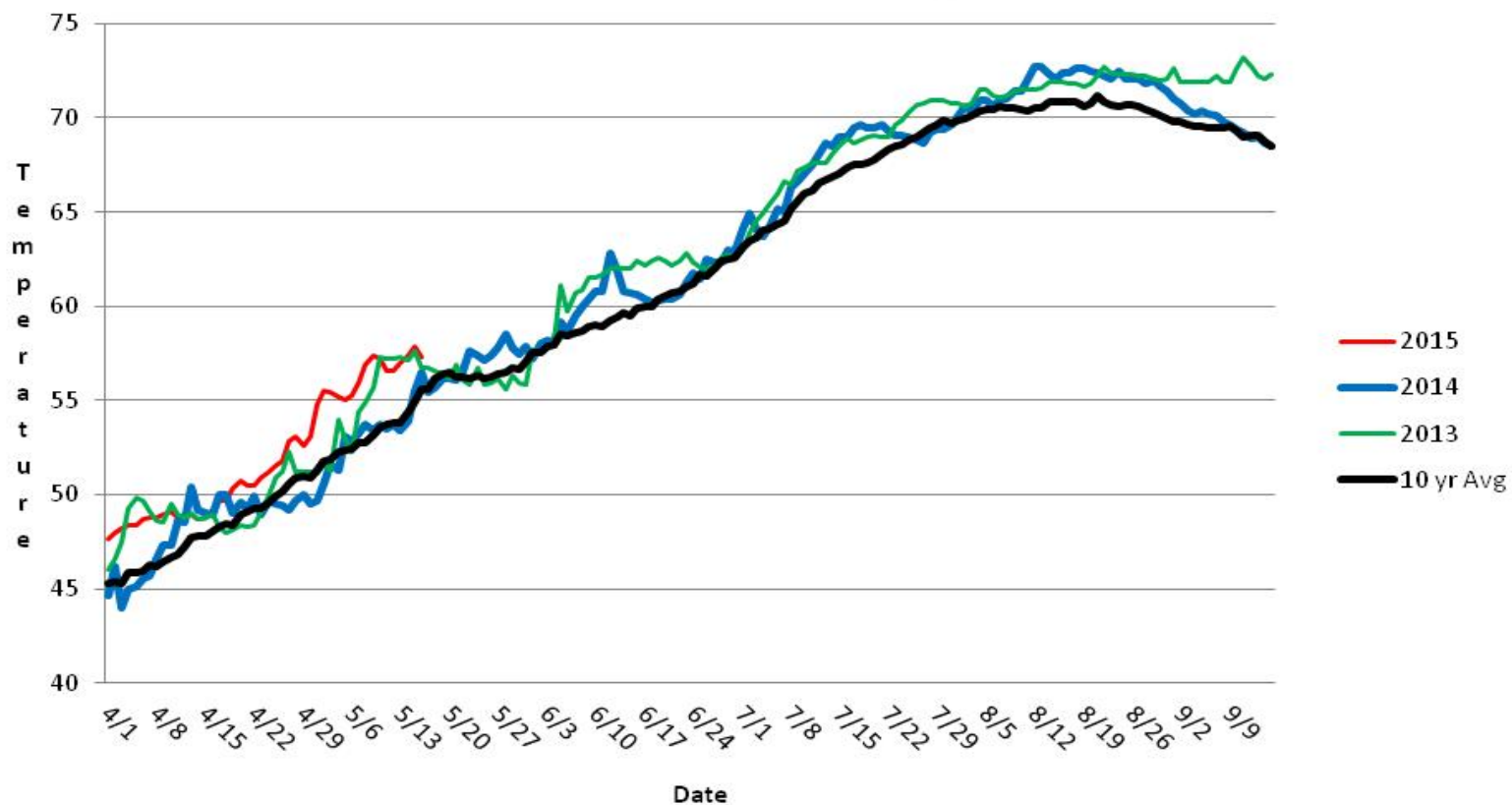
Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is pending; possible installation during the next winter maintenance season 2015/16.

JD North LPS monitoring by FFU crew continues but with only a few adult lamprey collected and moved into the forebay.

Kevin Moynahan
OPM John Day/Willow Creek Project

Date: 30-May-15

JDA SMF Water Temp



JDA Collection Channel Velocity

Date: 23-May-15

By: Pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:22	82	2.20
2 - 4	2:09	129	3.83
4 - 6	3:01	181	3.46
6 - 8	3:58	238	3.16
8 - 10	4:55	295	3.16
10 - 12	5:51	351	3.21
12 - 14	6:48	408	3.16
14 - 16	7:41	461	3.40
16 - 18	8:20	500	4.62
			3.35

JDA Bird Counts: 5/24/15 to 5/30/15

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)	
24-May	PHFB	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7	7	45	45	106
24-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	SW1	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
24-May	SW2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
24-May	SW3	0	5	30	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Avg/Survey		3		47		0		0		0		0		0		0		7		45		202
25-May	PHFB	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7	7	37	43	96
25-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
25-May	SW2	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
25-May	SW3	0	20	15	55	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	92
Avg/Survey		10		41		0		0		0		0		1		0		7		40		197
26-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	35	44	93
26-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW3	0	7	9	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Avg/Survey		4		14		0		0		0		0		0		0		7		40		128
27-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	41	93
27-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May	PH2	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
27-May	PH3	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
27-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May	SW2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27-May	SW3	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Avg/Survey		14		4		0		0		0		0		0		0		0		47		128

JDA Bird Counts: 5/24/15 to 5/30/15

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)	
28-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	47	88
28-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May	PH1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
28-May	PH2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
28-May	PH3	4	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
28-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May	SW2	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
28-May	SW3	4	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Avg/Survey		42		0		0		0		0		0		0		0		0		44	171	
29-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	41	73
29-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May	PH2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
29-May	PH3	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
29-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May	SW2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
29-May	SW3	4	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Avg/Survey		43		0		0		0		0		0		0		0		0		37	158	
30-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
30-May	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	46
30-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-May	PH3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
30-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-May	SW2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30-May	SW3	1	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Avg/Survey		13		1		0		0		0		0		0		0		0		41	108	
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F	NF			F	NF			F	NF			F	NF			F	NF			
Weekly Total		254	210			0	0			0	0			2	0			42	584			1092
Avg/Survey		18	15			0	0			0	0			0	0			3	42			78

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	58	6.0	28
Mon	58	6.0	34
Tues	59	6.0	50
Wed	60	6.0	50
Thur	61	5.0	40
Fri	61	6.0	44
Sat	62	5.0	35
AVG:	60	AVG: 5.7	AVG 40
			MAX 50
			MIN 28

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.1	9.1	1.4	9.2	1.5	4.6	1.8
Sun	9.1	9.1	1.4	8.8	1.4	4.6	1.8
Mon	8.6	8.5	1.4	8.9	1.5	4.6	1.7
Mon	9.6	9.4	1.5	8.9	1.4	4.5	1.7
Tues	9.6	9.5	1.5	9.3	1.4	4.6	1.7
Tues	9.1	8.9	1.5	9	1.5	4.4	1.7
Wed	9.6	9.4	1.4	9.4	1.5	4.5	1.7
Wed	9.0	9.0	1.5	8.7	1.5	4.6	1.7
Thur	9.1	9.0	1.5	8.9	1.6	4.6	1.8
Thur	8.4	8.4	1.5	8.5	1.6	4.6	1.7
Fri	8.8	8.6	1.5	8.8	1.4	4.6	1.9
Fri	9.4	9.2	1.4	8.9	1.4	4.5	1.8
Sat	8.8	8.6	1.7	8.2	1.6	4.6	1.8
Sat	8.7	8.5	1.6	8.2	1.6	4.6	1.8
AVG:	8.2	8.9	1.5	8.8	1.5	4.6	1.8