

FISHWAY STATUS REPORT

Date: 5/25/2019
Inspection Period: 5/19/2019 thru 5/25/2019

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	Inspection OOC	Criteria Limit	Total Number of Inspections:	Temperature:
			14	56 F
				Secchi: 3.8 Ft.
NORTH FISHWAY				
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	0		Turbine 3 oos. 2 turbine operation as of 1200 on 22 May.	
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'	Set to Shad setting to provide more flow to SE1	
South entrance differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.5	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.74	
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG 1.7	
Entrance weir NE1	0	depth (≥ 8')	AVG 11.7	
Entrance weir NE2	0	depth (≥ 8')	AVG 10.4	
JUVENILE PASSAGE	0			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	
Submersible traveling screens	0	visual inspect		
Turbine trashrack drawdown	0	<1.5', wkly	N/A	
Vert barrier screen drawdown	0	<1.5', wkly	N/A	
Spill volume	0	per FPP	Spill season started 10 April	
Spill pattern	0	per FPP	None	
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation:

SMOLT MONITORING FACILITY began sampling on 3/13 at 1400. A broken pipe flange that supplies flume and rotating gate water was cracked preventing start up on 3/11.

Maintenance:

SMF SCADA update by JD Electrical/ Portland District's engineers is underway but its completion is delayed by one year to February 2020. Due to complexity of electronic components and incomplete as-builts which are pending at this time.

Research:

CRITFC genetic samples were collected by PSMFC.

ADULT FISHWAYS & TW AVIAN GRID

Birds:

USDA Bird Hazing began on 15 April. 20 Pelicans observed on island below project in tailrace
All 125 avian lines in place without any deficiencies.

Operations:

South Fish turbine 3 oos due to thrust bearing failure.

Trash raking of units began on 3/21.

MU Gatewell Drawdown All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

Maintenance:

JD North AWS pump 2 returned to service on 3/27.

JD North AWS pumps frequent SKF alarms (auto greasing issues) continue and are cleared by JD Maintenance & Ops immediately. Planning for a long term fix underway.

JD South fish turbine's anti-ratchet gear was damaged beyond repair on 9 Apr. A spare is being assessed as a possible repair part.

JD North Fishway's LPS: Installation of the old pump assembly and electric controls will proceed at the end of April for start of trapping season.

JD South AWS turbine 3 is OOS, Part are to arrive on 26 April.

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

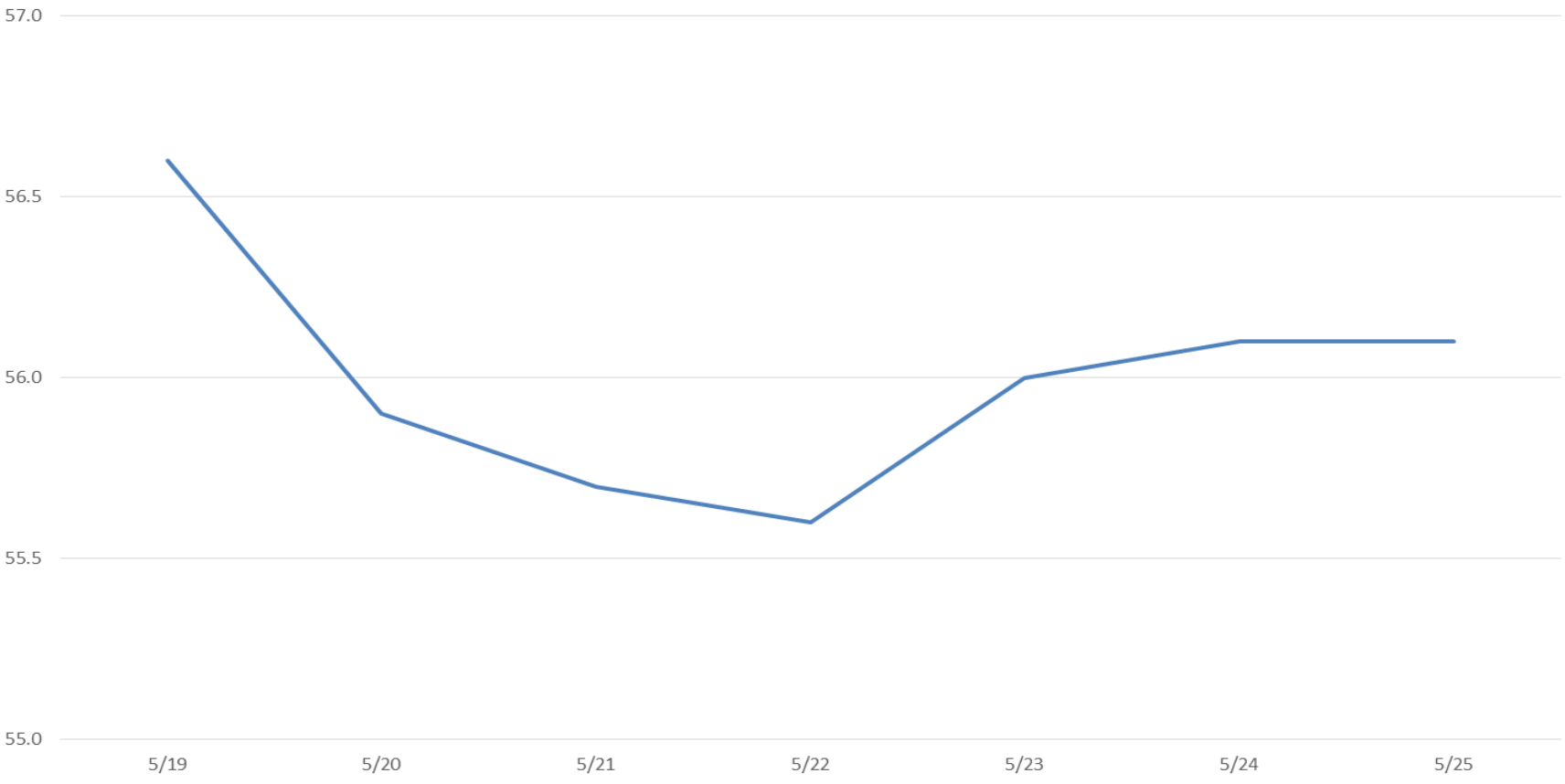
Research:

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

Approved by: Ron Twiner, Acting OPM

JDA Forebay Water Temperature (5/19/19 - 5/25/19)



JDA Collection Channel Velocity

Date 25-May-19

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:05	125	2.95
4 - 6	3:13	193	2.65
6 - 8	4:21	261	2.65
8 - 10	5:34	334	2.47
10 - 12	6:43	403	2.61
12 - 14	7:49	469	2.73
14 - 16	8:59	539	2.57
16 - 18	9:54	594	3.27
			2.74

Bay 19 TW:	162.6	
Turbine 1&2:	68 RPM	Turbine #3 OOS

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

John Day Weekly Averages

	Temp:	Secchi:	Fallbacks	
Sun	57	3.5	13	Bypass
Mon	56	3.5	20	Sample
Tue	56	3.5	11	Bypass
Wed	56	4.0	15	Sample
Thur	56	4.0	17	Bypass
Fri	56	4.0	21	Sample
Sat	56	4.0	7	Bypass
AVG:	56	AVG: style="border: 1px solid black; text-align: center;"> 3.8	AVG/Sample style="border: 1px solid black; text-align: center;"> 15	
			MAX style="border: 1px solid black; text-align: center;"> 21	
			MIN style="border: 1px solid black; text-align: center;"> 7	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	12.4	11.0	1.4	9.8	1.4	4.6	1.8
Sun	12.4	11.0	1.5	8.3	1.4	4.6	2.0
Mon	12.5	11.1	1.4	8.3	1.6	4.5	1.8
Mon	12.7	11.3	1.1	8.4	1.6	4.2	1.6
Tues	11.7	10.3	1.0	8.6	1.5	4.6	1.6
Tues	11.9	10.5	1.3	8.4	1.5	4.5	1.8
Wed	12.2	10.8	1.4	8.8	1.3	4.6	1.5
Wed	11.6	10.2	1.5	8.4	1.6	4.5	1.4
Thur	11.2	9.8	1.5	8.2	1.5	4.6	1.9
Thur	11.8	10.5	1.3	8.4	1.6	4.5	1.6
Fri	10.8	9.5	1.5	8.0	1.7	4.4	1.7
Fri	11.0	9.6	1.4	8.0	1.5	4.5	1.6
Sat	10.9	10.3	1.4	8.7	1.4	4.7	1.8
Sat	10.9	10.3	1.4	8.0	1.7	4.5	1.8
AVG:	11.7	10.4	1.4	8.5	1.5	4.5	1.7

JDA Bird Counts: 5/19/19 to 5/25/19

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)	
19-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	5	0	23
19-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-May	SW3	7	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Avg/Survey		26		0		0		0		0		0		0		0		9		3		74
20-May	PHFB	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	12	0	0	33
20-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May	SW3	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Avg/Survey		13		0		0		0		0		0		0		0		16		0		58
21-May	PHFB	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28	0	0	57
21-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
21-May	SW3	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Avg/Survey		13		0		0		0		0		0		1		0		28		0		84
22-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	29
22-May	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW2	14	9	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	29
22-May	SW3	21	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	22
Avg/Survey		23		1		0		0		0		0		4		0		15		0		83

JDA Bird Counts: 5/19/19 to 5/25/19

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)	
23-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	33	12	0	0	46
23-May	SWFB	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May	PH2	4	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	10
23-May	PH3	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
23-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May	SW2	11	12	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	24
23-May	SW3	23	29	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	53
Avg/Survey		48		0		0		0		0		0		3		0		23		0		145
24-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	25	0	0	54
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	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	SW2	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	7
24-May	SW3	15	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Avg/Survey		29		0		0		0		0		0		2		0		27		0		114
25-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	31	0	0	57
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	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	7
25-May	PH3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
25-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW3	36	46	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	86
Avg/Survey		44		0		0		0		0		0		4		0		29		0		152
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		389		1		0		0		0		0		24		0		291		5		710
Avg/Survey		28		0		0		0		0		0		2		0		21		0		51

John Day Dam
Avian Zones

