

# FISHWAY STATUS REPORT

**Date:** 5/30/2020  
**Inspection Period:** 5/24/2020 thru 5/30/2020

## 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.  
Additional and frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspection OOC	Criteria Limit	Total Number of Inspections: 14	Temperature: 56 F
				Secchi: 3.0 Ft.
<b>NORTH FISHWAY</b>			NFW rts on 1/23	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	High setting		
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	
<b>SOUTH FISHWAY</b>			SFW rts on 2/28	
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 1.3	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.3	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.81	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 12.3	
Entrance weir NE2	0	depth (≥ 8')	AVG 12.3	
<b>JUVENILE PASSAGE</b>				
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	JBS rts 3/9/20
Submersible traveling screens	0	visual inspect		
Turbine trashrack drawdown	0	<1.5', wkly		
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	per FPP		
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

## SMOLT MONITORING FACILITY

### Operation:

Condition sampling started 4/01/2020 and with COVID-19 restrictions, Oregon and Washington stay at home orders, and USACE limited staffing levels, the SMF will continue limited conditioning sampling (every other day) until further notice. Severe wind storm 5/30/2020 caused a tree near the south fish ladder to fall on the railing and branches were contacting the water. JDA maintenance removed the tree Sunday 5/31/2020. Ladder was never out of criteria. The only damage from the tree is the hand railing and the damage isn't causing any safety concerns.

### Maintenance:

SMF SCADA update completed 17 March 2020. JD Electricians are working on SCADA programming and controls.

## ADULT FISHWAYS & TW AVIAN GRID

### Birds:

Slight increase in bird numbers this week. See Bird Count tab for details.  
All 125 avian lines in place without any deficiencies.

### Operations:

JD South Adult Fishway is operating within criteria.  
JD North Adult Fishway is operating within criteria.  
JD Maintenance continue repairs of AWS fish pump 4. RTS has yet TBD.  
MU 15 OOS 06/01/2020 for Annual/Actuator Tank. ETR 06/18/2020.

### Maintenance:

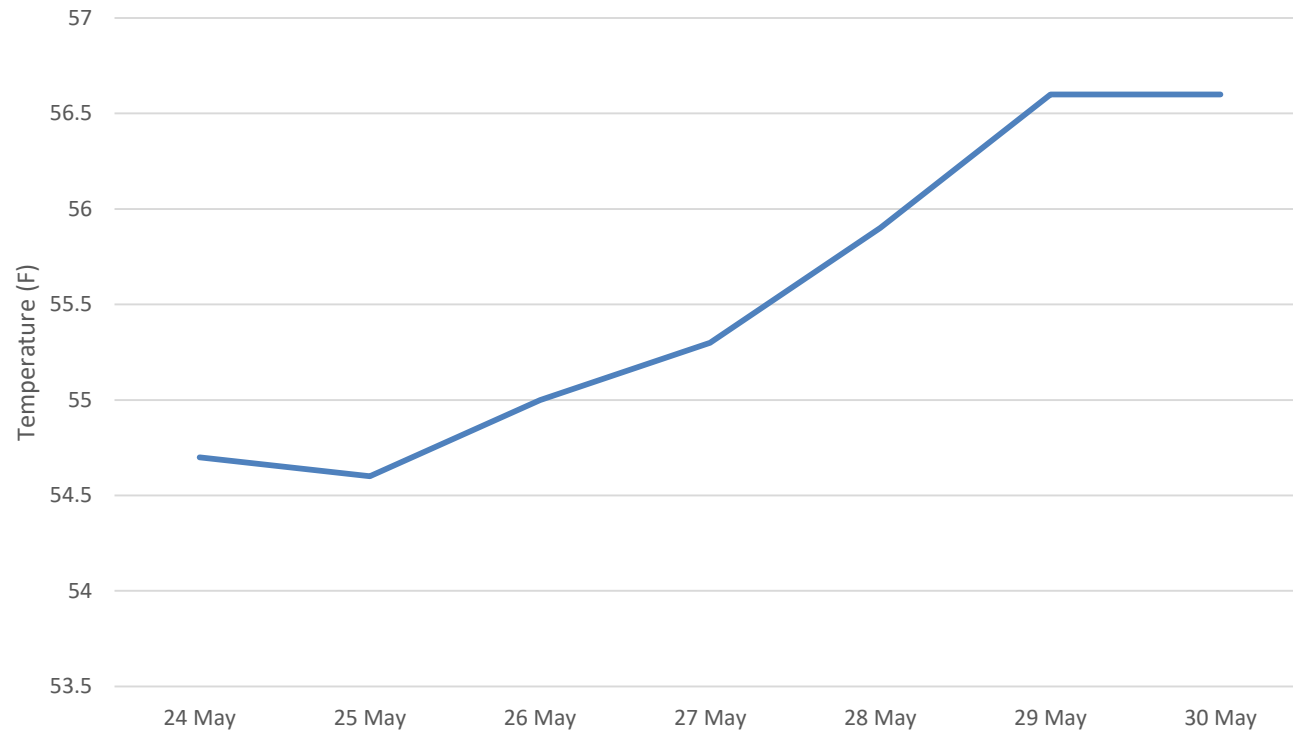
JD North Fishway's pump 4 has been pulled for maintenance.  
Calibration: All gauges/ sensors are within the criteria of 0.3' .

### Research:

CRITFC genetics study at SMF

Approved by: Ron Twiner, Acting OPM

### JDA Forebay



## JDA Collection Channel Velocity

<b>Date</b>	<i>29-May-20</i>
<b>By:</b>	<i>KRM</i>

Bay(s)	Time	Sec.	Velocity (f/s)
<i>0-2</i>	<i>1:02</i>	<i>62</i>	<i>2.90</i>
<i>2 - 4</i>	<i>2:08</i>	<i>128</i>	<i>2.73</i>
<i>4 - 6</i>	<i>3:23</i>	<i>203</i>	<i>2.40</i>
<i>6 - 8</i>	<i>4:26</i>	<i>266</i>	<i>2.86</i>
<i>8 - 10</i>	<i>5:32</i>	<i>332</i>	<i>2.73</i>
<i>10 - 12</i>	<i>6:40</i>	<i>400</i>	<i>2.65</i>
<i>12 - 14</i>	<i>7:41</i>	<i>461</i>	<i>2.95</i>
<i>14 - 16</i>	<i>8:50</i>	<i>530</i>	<i>2.61</i>
<i>16 - 18</i>	<i>9:42</i>	<i>582</i>	<i>3.46</i>
			<b>2.81</b>

Bay 19 TW	Level	164.0
Turbine 1	RPM	0
Turbine 2	RPM	68
Turbine 3	RPM	68

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

## John Day Weekly Averages

	Temp (F)	Secchi (Ft)	Fallbacks
Sun	54.7	4.0	
Mon	54.6	2.5	11
Tue	55.0	2.0	
Wed	55.3	2.0	7
Thur	55.9	3.5	
Fri	56.6	3.5	8
Sat	56.6	3.5	
<b>AVG:</b>	<b>55.5</b>	<b>AVG: 3.0</b>	<b>AVG/Sample 9</b>
			<b>MAX 11</b>
			<b>MIN 7</b>

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)
Sun	12.7	12.7	1.3	8.7	1.6	4.5	1.4
Sun	12.5	12.5	1.3	8.5	1.7	4.5	1.5
Mon	12.4	12.4	1.3	8.4	1.5	4.5	1.6
Mon	12.9	12.9	1.4	8.9	1.6	4.7	1.5
Tues	12.4	12.4	1.2	8.5	1.5	4.6	1.5
Tues	13.1	13.1	1.3	8.0	1.4	4.7	1.4
Wed	9.8	10.0	1.3	8.2	1.5	4.6	1.6
Wed	9.3	9.5	1.3	8.1	1.6	4.6	1.5
Thur	13.1	13.1	1.3	8.6	1.5	4.6	1.6
Thur	10.3	10.3	1.5	8.0	1.5	4.6	1.6
Fri	12.9	12.9	1.4	8.1	1.4	4.5	1.2
Fri	14.4	14.4	1.0	8.2	1.4	4.5	1.2
Sat	12.9	12.9	1.1	8.3	1.4	4.6	1.2
Sat	13.3	13.3	1.2	8.0	1.5	4.6	1.3
<b>AVG:</b>	<b>12.3</b>	<b>12.3</b>	<b>1.3</b>	<b>8.3</b>	<b>1.5</b>	<b>4.6</b>	<b>1.4</b>

**JDA Bird Counts: 5/24/20 to 5/30/20**

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	3	15	0	0	0	0	0	0	0	0	0	0	0	0	13	13	0	0	44 0 0 0 0 0 0 101
24-May	SWFB	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	
24-May	PH2	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	
24-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24-May	SW3	36	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		51		9		0		0		0		0		0		0		13		0		145
25-May	PHFB	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	22	18	0	0	44 0 2 0 21 0 0 60
25-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25-May	PH1	2	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	
25-May	PH3	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25-May	SW1	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	
25-May	SW3	13	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		42		2		0		0		0		0		0		0		20		0		127
26-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	0	0	48 0 0 0 18 0 2 34
26-May	SWFB	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	
26-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26-May	PH3	0	8	8	0	0	0	0	0	0	0	0	0	2	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	
26-May	SW2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26-May	SW3	13	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		22		4		0		0		0		0		1		0		24		0		102
27-May	PHFB	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	20	0	0	44 0 0 0 24 0 4 25
27-May	SWFB	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	
27-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-May	PH3	6	16	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
27-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-May	SW2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27-May	SW3	21	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		27		0		0		0		0		0		1		0		21		0		97

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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	2	0	0	0	0	0	0	0	0	0	0	0	0	15	17	0	0	34
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	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
28-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-May	PH3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
28-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
28-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
28-May	SW3	50	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Avg/Survey		48		1		0		0		0		0		4		0		16		0		136
29-May	PHFB	15	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	30	10	0	0	60
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
29-May	SW3	30	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	36
Avg/Survey		40		0		0		0		0		0		1		0		20		0		121
30-May	PHFB	1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	10	0	0	57
30-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-May	SW3	25	25	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	52
Avg/Survey		41		0		0		0		0		0		1		0		13		0		109
<b>Totals</b>		<b>Gulls</b>				<b>Cormorant</b>				<b>Caspian tern</b>				<b>White Pelican</b>				<b>Grebe</b>				<b>Total</b>
		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		<b>F</b>		<b>NF</b>		
<b>Weekly Total</b>		<b>537</b>		<b>31</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>15</b>		<b>0</b>		<b>254</b>		<b>0</b>		<b>837</b>
<b>Avg/Survey</b>		<b>38</b>		<b>2</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>0</b>		<b>18</b>		<b>0</b>		<b>60</b>

John Day Dam  
Avian Zones

