

# FISHWAY STATUS REPORT

**Date:** 5/23/2020  
**Inspection Period:** 5/17/2020 thru 5/23/2020

## 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: 55 F
				Secchi: 4.2 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 1.2	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.7	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.91	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 12.6	
Entrance weir NE2	0	depth (≥ 8')	AVG 12.6	
<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.

### **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.

### **Maintenance:**

JD North Fishway's pump 4 has been pulled for maintenance.

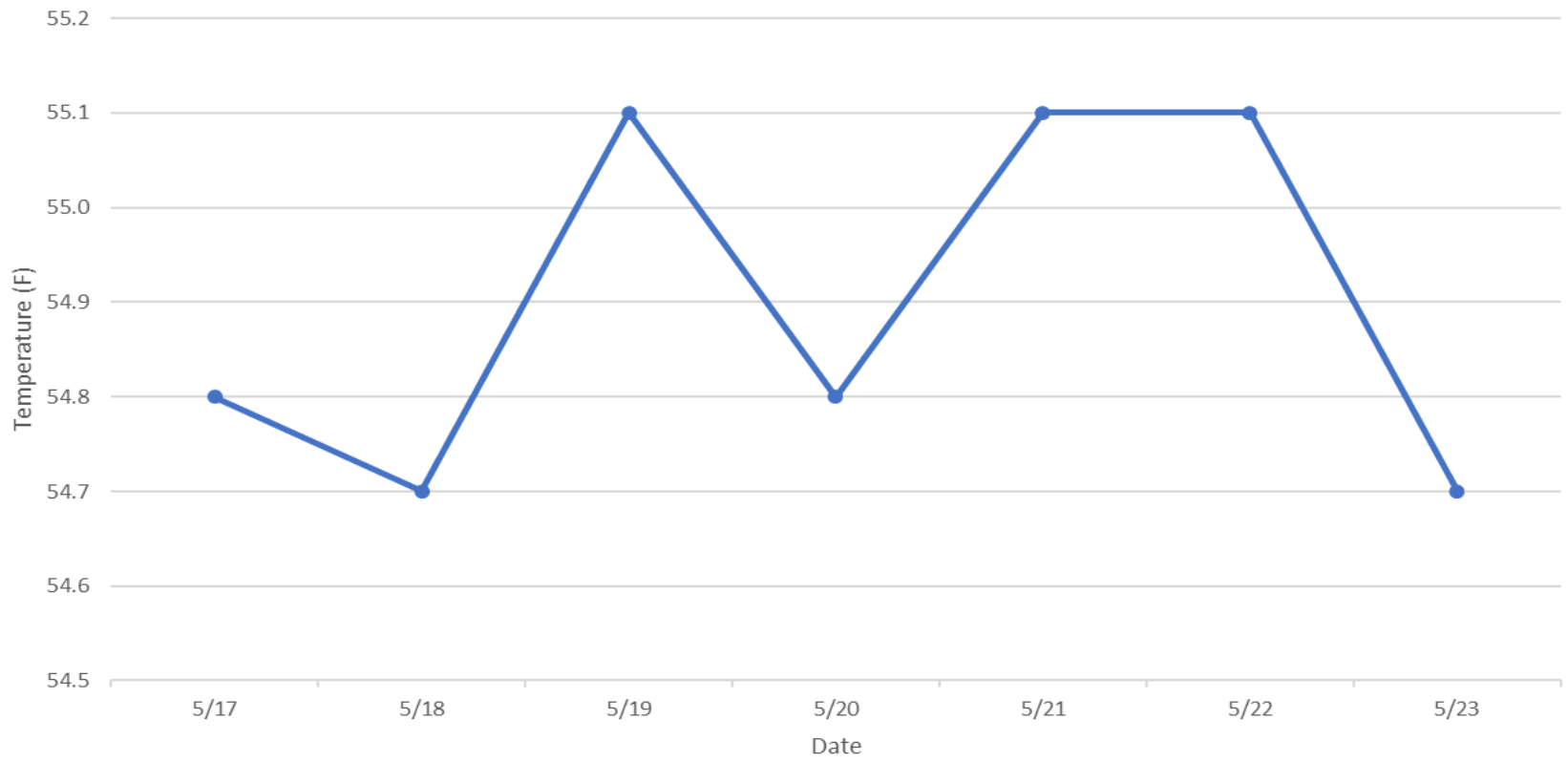
Calibration: All gauges/ sensors are within the criteria of 0.3' .

### **Research:**

CRITFC genetics study at SMF

Approved by: Ron Twiner, Acting OPM

JDA Forebay



## JDA Collection Channel Velocity

<b>Date</b>	<i>19-May-20</i>
<b>By:</b>	<i>MDL</i>

<b>Bay(s)</b>	<b>Time</b>	<b>Sec.</b>	<b>Velocity (f/s)</b>
<i>0-2</i>	<i>0:59</i>	<i>59</i>	<i>3.05</i>
<i>2 - 4</i>	<i>2:02</i>	<i>122</i>	<i>2.86</i>
<i>4 - 6</i>	<i>3:04</i>	<i>184</i>	<i>2.90</i>
<i>6 - 8</i>	<i>4:06</i>	<i>246</i>	<i>2.90</i>
<i>8 - 10</i>	<i>5:17</i>	<i>317</i>	<i>2.54</i>
<i>10 - 12</i>	<i>6:24</i>	<i>384</i>	<i>2.69</i>
<i>12 - 14</i>	<i>7:27</i>	<i>447</i>	<i>2.86</i>
<i>14 - 16</i>	<i>8:26</i>	<i>506</i>	<i>3.05</i>
<i>16 - 18</i>	<i>9:20</i>	<i>560</i>	<i>3.33</i>
			<b>2.91</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	54.8	4.0	3
Mon	54.7	4.0	N/A
Tue	55.1	4.5	1
Wed	54.8	4.0	N/A
Thur	55.1	4.0	5
Fri	55.1	4.5	N/A
Sat	54.7	4.5	11
<b>AVG:</b>	<b>54.9</b>	<b>4.2</b>	<b>5</b>
			<b>MAX</b>
			<b>11</b>
			<b>MIN</b>
			<b>1</b>

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)
Sun	11.1	11.1	1.3	9.1	1.4	4.7	1.2
Sun	12.8	12.8	1.2	9.8	1.5	4.7	1.1
Mon	12.8	12.8	1.3	8.8	1.5	4.7	1.2
Mon	11.4	11.4	1.4	9.5	1.6	4.7	1.4
Tues	12.9	12.9	1.0	8.0	1.5	4.5	1.2
Tues	12.5	12.5	1.2	8.1	1.5	4.5	1.5
Wed	13.1	13.1	1.1	8.5	1.6	4.7	1.6
Wed	13.2	13.2	1.2	8.1	1.5	4.6	1.2
Thur	13.0	13.0	1.1	8.9	1.4	4.6	1.5
Thur	13.2	13.2	1.2	8.6	1.4	4.7	1.4
Fri	13.1	13.1	1.2	9.0	1.6	4.7	1.5
Fri	13.3	13.3	1.2	8.7	1.4	4.6	1.9
Sat	12.5	12.5	1.5	8.2	1.7	4.6	1.4
Sat	12.1	12.1	1.3	8.3	1.6	4.5	1.7
<b>AVG:</b>	<b>12.6</b>	<b>12.6</b>	<b>1.2</b>	<b>8.7</b>	<b>1.5</b>	<b>4.6</b>	<b>1.4</b>

**JDA Bird Counts: 5/17/20 to 5/23/20**

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)	
17-May	PHFB	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	20	5	0	16	49
17-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	SW2	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
17-May	SW3	20	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	23
Avg/Survey		60		4		0		0		0		0		2		0		13		8		172
18-May	PHFB	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	15	0	24
18-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
18-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
18-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	SW3	10	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Avg/Survey		20		0		0		0		0		0		2		0		5		8		67
19-May	PHFB	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	27	20	0	0	55
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	4	0	0	0	0	0	0	0	4
19-May	SW3	21	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Avg/Survey		20		4		0		0		0		0		2		0		24		0		99
20-May	PHFB	21	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	17	22	0	0	87
20-May	SWFB	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
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	48	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Avg/Survey		57		17		0		0		0		0		0		0		20		0		187

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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)	
21-May	PHFB	8	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	20	19	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	93	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Avg/Survey		71		5		0		0		0		0		1		0		20		0		193
22-May	PHFB	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	23	22	0	0	58
22-May	SWFB	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW3	57	52	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	111
Avg/Survey		58		7		0		0		0		0		1		0		23		0		175
23-May	PHFB	0	0	17	15	0	0	0	0	0	0	0	0	0	0	0	0	24	12	0	0	68
23-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May	SW3	62	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Avg/Survey		60		16		0		0		0		0		0		0		18		0		188
<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>691</b>		<b>105</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>14</b>		<b>0</b>		<b>240</b>		<b>31</b>		<b>1081</b>
<b>Avg/Survey</b>		<b>49</b>		<b>8</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>0</b>		<b>17</b>		<b>2</b>		<b>77</b>

John Day Dam  
Avian Zones

