

FISHWAY STATUS REPORT

Date: 5/9/2020
Inspection Period: 5/3/2020 thru 5/9/2020

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: 4.6 Ft.
NORTH FISHWAY			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	
SOUTH FISHWAY			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 8.7	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.82	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.5	
Entrance weir NE1	0	depth (≥ 8')	AVG 10.9	
Entrance weir NE2	0	depth (≥ 8')	AVG 10.9	
JUVENILE PASSAGE				
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.5	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.

On 4/30/2020, the pool elevation dropped and the JBS Diff was out of criteria. The pool has been brought back up and the JBS is again within criteria

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.

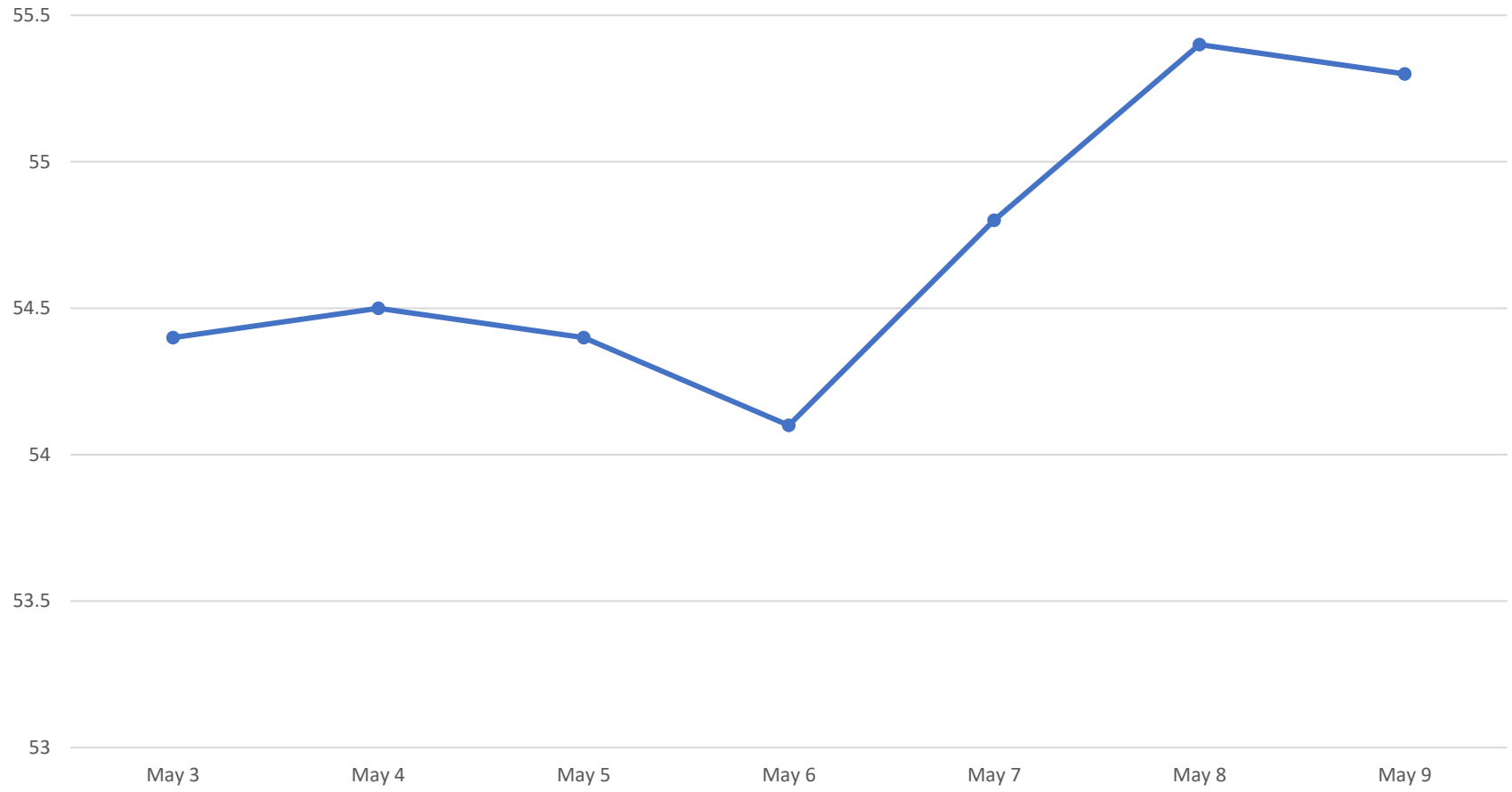
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

CRITFC genetics study at SMF

Approved by: Ron Twiner, Acting OPM

JDA Tailwater 5/3/20 - 5/9/20



JDA Collection Channel Velocity

Date	<i>9-May-20</i>
By:	<i>LR</i>

Bay(s)	Time	Sec.	Velocity (f/s)
<i>0-2</i>	<i>1:00</i>	<i>60</i>	<i>3.00</i>
<i>2 - 4</i>	<i>2:03</i>	<i>123</i>	<i>2.86</i>
<i>4 - 6</i>	<i>3:13</i>	<i>193</i>	<i>2.57</i>
<i>6 - 8</i>	<i>4:15</i>	<i>255</i>	<i>2.90</i>
<i>8 - 10</i>	<i>5:26</i>	<i>326</i>	<i>2.54</i>
<i>10 - 12</i>	<i>6:25</i>	<i>385</i>	<i>3.05</i>
<i>12 - 14</i>	<i>7:34</i>	<i>454</i>	<i>2.61</i>
<i>14 - 16</i>	<i>8:39</i>	<i>519</i>	<i>2.77</i>
<i>16 - 18</i>	<i>9:38</i>	<i>578</i>	<i>3.05</i>
			2.82

Bay 19 TW	Level	161.3
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:	Secchi:	Fallbacks
Sun	55	4.0	1
Mon	54	4.0	N/A
Tue	54	5.0	1
Wed	54	5.0	NA
Thur	54	4.5	6
Fri	55	5.0	N/A
Sat	55	5.0	3
AVG:	54.6	AVG: 4.6	AVG/Sample 3
			MAX 6
			MIN 1

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	12.0	12.0	1.1	8.7	1.3	4.5	1.0
Sun	9.5	9.5	1.4	8.0	1.6	4.1	1.7
Mon	10.8	10.8	1.3	8.6	1.5	4.3	1.4
Mon	11.1	11.1	1.2	8.3	1.6	4.6	1.6
Tues	10.6	10.6	1.1	9.6	1.5	4.2	1.5
Tues	11.2	11.2	1.3	8.6	1.4	4.6	1.3
Wed	10.5	10.5	1.2	9.0	1.4	4.7	1.2
Wed	10.6	10.6	1.4	9.0	1.4	4.7	1.7
Thur	11.2	11.2	1.1	8.2	1.4	4.6	1.6
Thur	10.5	10.5	1.4	8.1	1.7	4.5	1.7
Fri	11.8	11.8	1.3	9.5	1.4	4.6	1.7
Fri	11.7	11.7	1.3	8.8	1.6	4.4	1.6
Sat	10.3	10.3	1.5	8.1	1.6	4.4	1.5
Sat	11.1	11.1	1.5	8.7	1.5	4.6	1.4
AVG:	10.9	10.9	1.3	8.7	1.5	4.5	1.5

JDA Bird Counts: 5/3/20 to 5/9/20

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)	
3-May	PHFB	0	0	10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	40	98
3-May	SWFB	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
3-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		18		0		0		0		0		0		0		0		41		118
4-May	PHFB	0	12	4	10	0	0	0	0	0	0	0	0	0	0	0	0	0	12	25	0	63
4-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		6		7		0		0		0		0		0		0		6		13		63
5-May	PHFB	0	0	15	7	0	9	1	1	0	0	0	0	0	0	0	0	20	0	0	0	53
5-May	SWFB	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	PH3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
5-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	SW3	11	10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	22
Avg/Survey		15		13		5		1		0		0		1		0		10		0		87
6-May	PHFB	0	0	28	15	0	0	0	0	0	0	0	0	0	0	0	0	27	17	0	0	87
6-May	SWFB	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
6-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May	SW2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6-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		14		25		0		0		0		0		0		0		22		0		121

JDA Bird Counts: 5/3/20 to 5/9/20

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)	
7-May	PHFB	0	0	4	8	0	0	1	2	0	0	0	0	0	0	0	0	16	5	0	0	36
7-May	SWFB	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
7-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
7-May	PH3	0	10	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	12
7-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May	SW3	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Avg/Survey		14		10		0		2		0		0		4		0		11		0		79
8-May	PHFB	0	0	1	15	0	0	0	0	0	0	0	0	0	0	0	0	20	12	0	0	48
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May	SW3	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Avg/Survey		12		8		0		0		0		0		0		0		16		0		72
9-May	PHFB	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	10	0	0	0	15
9-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May	SW3	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Avg/Survey		9		0		2		0		0		0		0		0		5		0		31
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		138		161		12		5		0		0		9		0		139		107	571	
Avg/Survey		10		12		1		0		0		0		1		0		10		8	41	

John Day Dam
Avian Zones

