

FISHWAY STATUS REPORT

Date: 5/16/2020
Inspection Period: 5/10/2020 thru 5/16/2020

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: 4.9 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 8.6	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.93	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4	
Entrance weir NE1	0	depth (≥ 8')	AVG 12.1	
Entrance weir NE2	0	depth (≥ 8')	AVG 12.1	
JUVENILE PASSAGE				
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.

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.

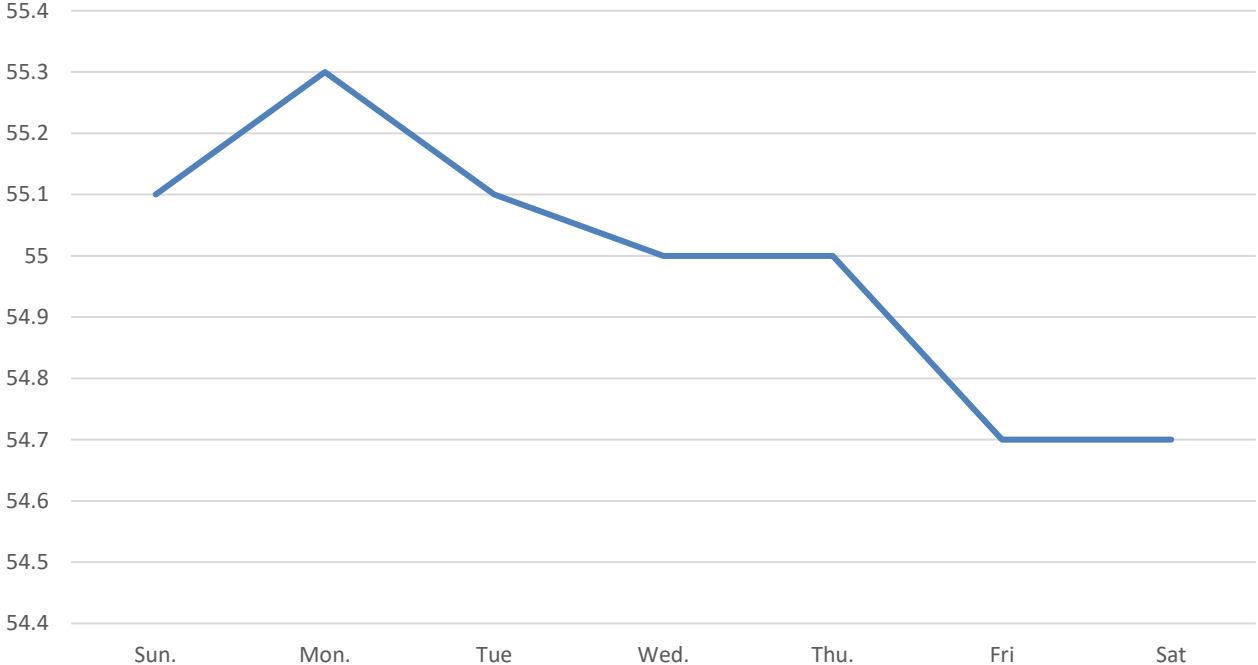
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

CRITFC genetics study at SMF

Approved by: Ron Twiner, Acting OPM

JDA Tailwater 05/09 - 05/16



JDA Collection Channel Velocity

Date	<i>16-May-20</i>
By:	<i>KRM</i>

Bay(s)	Time	Sec.	Velocity (f/s)
<i>0-2</i>	<i>0:57</i>	<i>57</i>	<i>3.16</i>
<i>2 - 4</i>	<i>1:53</i>	<i>113</i>	<i>3.21</i>
<i>4 - 6</i>	<i>2:54</i>	<i>174</i>	<i>2.95</i>
<i>6 - 8</i>	<i>3:59</i>	<i>239</i>	<i>2.77</i>
<i>8 - 10</i>	<i>5:01</i>	<i>301</i>	<i>2.90</i>
<i>10 - 12</i>	<i>6:02</i>	<i>362</i>	<i>2.95</i>
<i>12 - 14</i>	<i>7:02</i>	<i>422</i>	<i>3.00</i>
<i>14 - 16</i>	<i>8:13</i>	<i>493</i>	<i>2.54</i>
<i>16 - 18</i>	<i>9:15</i>	<i>555</i>	<i>2.90</i>
			2.93

Bay 19 TW	Level	163.2
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	5.0	NA
Mon	55	5.0	2
Tue	55	5.0	NA
Wed	55	5.0	0
Thur	55	4.5	NA
Fri	55	5.0	5
Sat	55	5.0	NA
AVG:	55.0	AVG: 4.9	AVG/Sample 2
			MAX 5
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.7	9.7	1.4	8.0	1.6	4.5	1.6
Sun	10.4	10.4	1.2	8.7	1.5	4.6	1.9
Mon	11.3	11.3	1.3	8.9	1.4	4.6	1.7
Mon	12.0	12.0	1.4	8.3	1.4	4.6	1.6
Tues	12.4	12.4	1.2	8.6	1.5	4.6	1.5
Tues	12.4	12.4	1.3	8.7	1.6	4.6	1.5
Wed	12.4	12.4	1.3	9.0	1.4	4.6	1.5
Wed	12.8	12.8	1.2	8.1	1.5	4.6	1.4
Thur	12.9	12.9	1.3	9.1	1.4	4.6	1.5
Thur	12.4	12.4	1.4	8.8	1.4	4.6	1.5
Fri	13.1	13.1	1.0	9.2	1.4	4.7	1.0
Fri	11.6	11.6	1.3	8.0	1.4	4.5	1.2
Sat	13.1	13.1	1.3	8.1	1.4	4.8	1.0
Sat	12.4	12.4	1.2	9.3	1.6	4.5	1.1
AVG:	12.1	12.1	1.3	8.6	1.5	4.6	1.4

JDA Bird Counts: 5/10/20 to 5/16/20

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)	
10-May	PHFB	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	19	12	0	0	37 0 0 8 0 0 2 18 65
10-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	
10-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
10-May	SW3	6	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		9		3		0		0		0		0		5		0		16		0		65
11-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	19	0	0	45 0 0 0 3 0 8 31 87
11-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	
11-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	
11-May	SW3	7	20	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	
Avg/Survey		14		0		0		0		0		0		8		0		23		0		87
12-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	17	0	0	37 0 0 0 6 5 0 51 99
12-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-May	PH3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	
12-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-May	SW3	3	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		29		0		0		0		0		0		3		0		19		0		99
13-May	PHFB	0	0	13	2	0	0	0	0	0	0	0	0	0	0	0	0	28	22	0	0	65 0 0 2 21 2 17 20 127
13-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
13-May	PH3	3	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
13-May	SW2	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-May	SW3	7	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		29		8		0		0		0		0		2		0		25		0		127

JDA Bird Counts: 5/10/20 to 5/16/20

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)	
14-May	PHFB	0	0	11	18	0	0	0	0	0	0	0	0	0	0	0	0	27	21	0	0	77
14-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May	PH2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14-May	PH3	8	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
14-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
14-May	SW2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
14-May	SW3	17	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Avg/Survey		34		15		0		0		0		0		2		0		24		0		147
15-May	PHFB	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	30	10	0	21	81
15-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May	SW2	70	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	71
15-May	SW3	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Avg/Survey		50		10		0		0		0		0		1		0		20		11		182
16-May	PHFB	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	21	2	0	10	42
16-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	SW1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
16-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	SW3	10	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	16
Avg/Survey		6		5		0		0		0		0		3		0		12		5		60
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		339		79		0		0		0		0		44		0		274		31		
Avg/Survey		24		6		0		0		0		0		3		0		20		2		55

John Day Dam
Avian Zones

