

## FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 7/3/2021

Inspection Period: 6/27/2021 thru 7/3/2021



**US Army Corps  
of Engineers**  
Portland District

JD/WC Project-Fisheries  
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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.

<b>John Day Dam</b>	Inspection OOC	Criteria Limit	Total Number of Inspections: 13				Temperature:	68.5 F
							Secchi:	6.0 Ft.

### NORTH FISHWAY

Exit differential	0	≤ 0.5'							
Exit Control weirs	0	High setting	High setting is normal						
Count station differential	0	≤ 0.3'							
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	1.5					

### SOUTH FISHWAY

Exit differential	0	≤ 0.5'							
Exit Control weirs	0	Mid setting	Mid setting is normal						
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 (Ft.)	1.2					
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.7					
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.69					
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6					
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.3					
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	10.0					

### JUVENILE PASSAGE

Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.6					
Submersible traveling screens	0	visual inspect	Next Visual Inspection						
Turbine trashrack drawdown	0	<1.5', wkly							
Vert barrier screen drawdown	0	<1.5', wkly							
Spill volume	0	per FPP	AVG (kcfs)	72.5	Avg %	34.4			
Spill pattern	0	per FPP							
Turbine Unit Priority	0	per FPP							
Turbine 1% Efficiency	0	per FPP							

## Fisheries Related Operations

### **Smolt Monitoring Operations:**

Smolt Monitoring Facility is currently conducting condition sampling every-other-day.

### **Adult Ladder Operations:**

North and South fish ladders are operating within criteria. Entered shad mode on 6/3/21.

### **Project Operations:**

Current outages: MU7, MU8, MU9-12 (Line 3 BPA MOD work) MU12, MU16. Summer Spill started on June 16.

Tailwater Average Weekly TDG: 115.3

### **Maintenance:**

JD North Fishway's pump 4 has been pulled for maintenance (RTS to be determined). Spillbay #10 will be operated manually until further notice.

Calibration - All gauges within the 0.3' criteria. Spillbay #3 failed on 6/5/21 at 0503, the motor for spill gate #3 will need to be replaced.

### **Bird Data:**

Cormorants have dispersed. Gull numbers low. Pelican numbers increasing on Preacher's Island, with more foraging behavior seen in spillway. Steady number of Grebes in PHFB. (see 'Bird Count' tab for details). USDA Hazing started on 04/16/21.

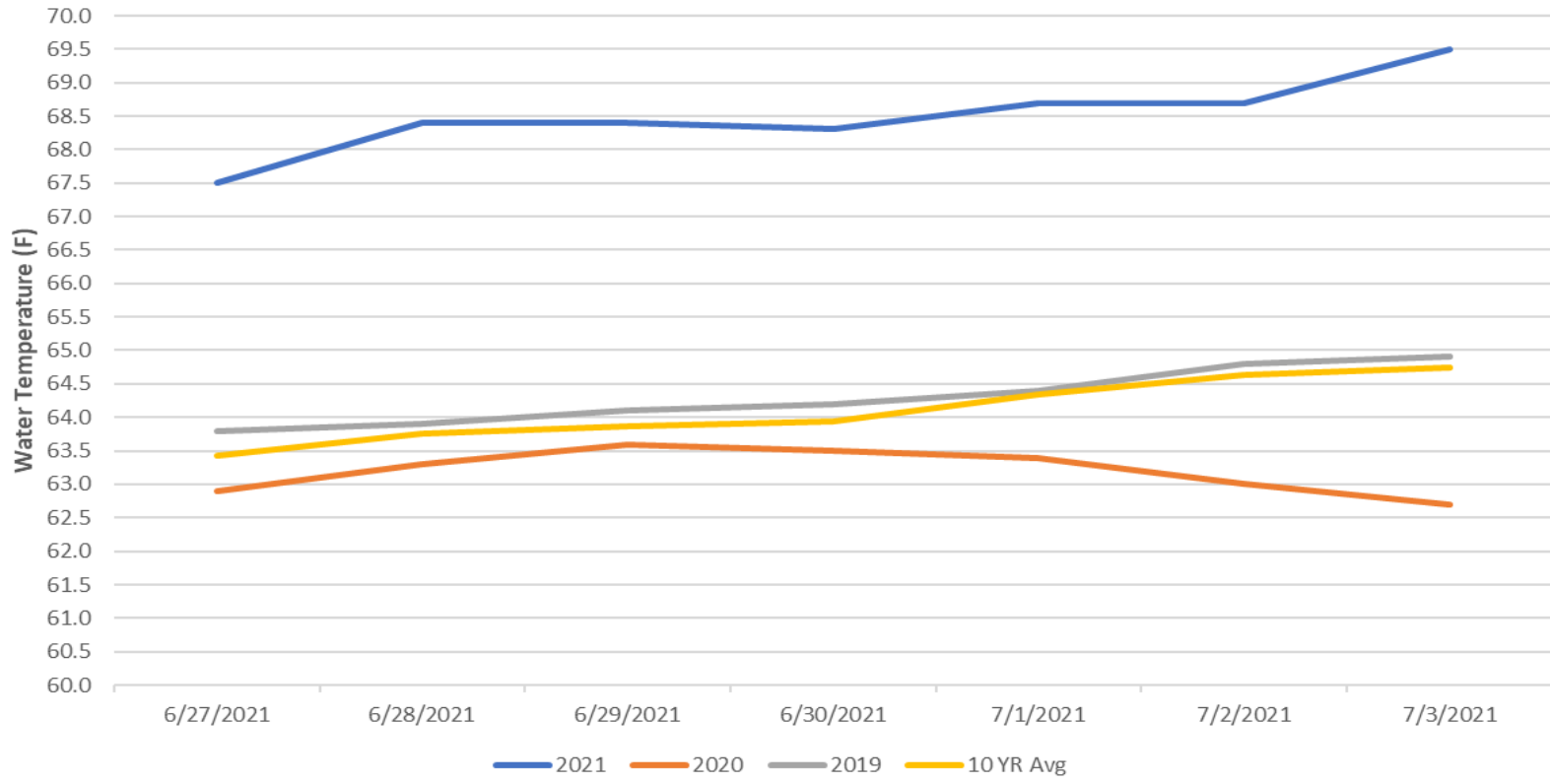
1 of 125 avian lines down, will need to be replaced

Pelicans on Preacher's Island: averaged 106 per day

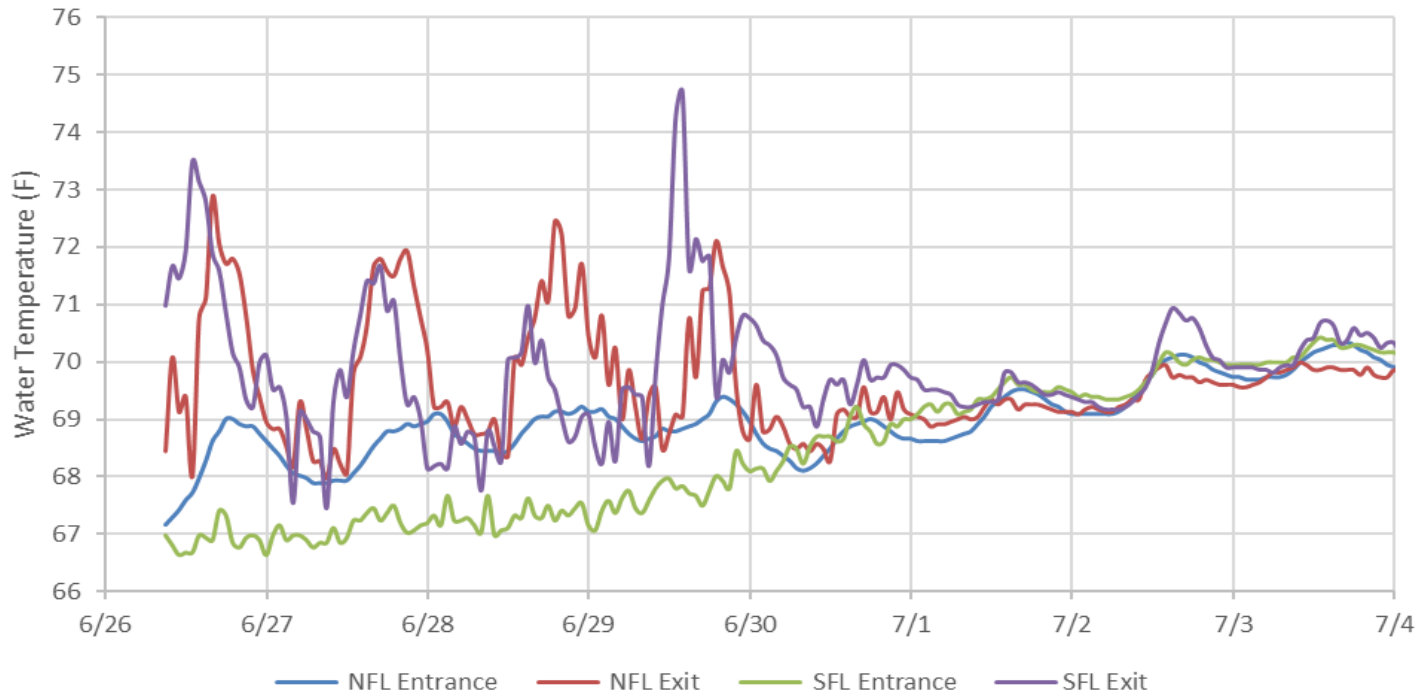
### **Research:**

PSMFC Juvenile lamprey genetic work continues.

### John Day Dam Water Temperatures (F)



Water Temperatures of JDA Fish Ladders (6/27 - 7/3)



# JDA Collection Channel Velocity

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

Date	Measurement Location	Speed (ft/sec)	SFL Turbine RPMs (1,2,3)	Bay 19 TW (ft)
7/1/2021	Unit 4	2.63	0,68,68	161.0
7/1/2021	Unit 12	2.56	0,68,68	161.0
7/3/2021	Unit 4	2.76	0,68,68	161.5
7/3/2021	Unit 12	2.83	0,68,68	161.5

Average Weekly Velocity (ft/sec)	2.69
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## JOHN DAY WEEKLY AVERAGES

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)	Spill Vol. (kcfs)	Spill %	# Spillbays
Sunday	8.0	8.0	1.4	9.2	1.8	4.6	1.9	63.3	34.6	18
Sunday	9.4	9.5	1.2	10.4	1.5	4.6	1.6	69.9	33.4	18
Monday	9.3	9.3	1.3	10.0	1.5	4.6	1.6	69.8	35.0	18
Monday	9.7	9.7	1.3	10.3	1.4	4.6	1.7	81.0	34.8	18
Tuesday	9.9	9.8	1.3	9.5	1.5	4.6	1.6	74.0	34.6	18
Tuesday	10.9	11.0	1.0	10.7	1.3	4.4	1.0	88.0	34.6	18
Wednesday	9.6	9.6	1.2	10.4	1.4	4.6	1.4	76.0	34.5	18
Wednesday	9.5	9.5	1.1	9.0	1.5	4.6	1.6	77.0	34.4	18
Thursday	8.9	10.6	1.1	9.9	1.4	4.6	1.8	63.1	31.4	18
Thursday										18
Friday	8.7	10.6	1.1	8.9	1.4	4.6	1.8	60.1	34.9	18
Friday	8.7	10.5	1.1	8.9	1.5	4.6	1.8	80.0	34.4	18
Saturday	9.4	11.2	1.3	9.6	1.6	4.6	1.4	66.2	34.5	18
Saturday	9.2	11.0	1.1	9.9	1.5	4.6	1.7	73.9	35.5	18
<b>AVG:</b>	<b>9.3</b>	<b>10.0</b>	<b>1.2</b>	<b>9.7</b>	<b>1.5</b>	<b>4.6</b>	<b>1.6</b>	<b>72.5</b>	<b>34.4</b>	<b>18.0</b>

	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	67.5	6.0	N/A	117
Monday	68.4	6.0	0	70
Tuesday	68.4	6.0	N/A	140
Wednesday	68.3	6.0	0	76
Thursday	68.7	6.0	N/A	105
Friday	68.7	6.0	0	120
Saturday	69.5	6.0	N/A	115
<b>AVG</b>	<b>68.5</b>	<b>6.0</b>	<b>0</b>	<b>106</b>

John Day Dam  
Avian Zones



**JDA Bird Counts: 6/27/21 to 7/3/21**

F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Bald Eagle				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)	F(1)	F(2)	NF(1)	NF(2)	
27-Jun	PHFB	1	0	0	6	0	0	0	0	0	0	0	0	1	0	0	0	17	12	0	0	0	0	0	0	37
27-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Jun	PH1	0	2	0	0	0	0	0	0	0	0	0	0	59	48	0	0	0	0	0	0	0	0	0	0	109
27-Jun	PH2	0	4	0	0	0	0	0	0	0	0	0	0	20	45	0	0	0	0	0	0	0	0	0	0	69
27-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	60	37	0	0	0	0	0	0	0	0	0	0	97
27-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	30	31	0	0	0	0	0	0	0	0	0	0	61
27-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	29	28	0	0	0	0	0	0	0	0	0	0	57
27-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	37	22	0	0	0	0	0	0	0	0	0	0	59
<b>Avg/Survey</b>		<b>4</b>		<b>3</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>224</b>		<b>0</b>		<b>15</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>245</b>
28-Jun	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	2	17	0	0	10	12	0	0	0	0	0	0	41
28-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4
28-Jun	SW1	0	3	0	0	0	0	0	0	0	0	0	0	48	61	0	0	0	0	0	0	0	0	0	0	112
28-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	67	34	0	0	0	0	0	0	0	0	0	0	101
28-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	22	17	0	0	0	0	0	0	0	0	0	0	39
<b>Avg/Survey</b>		<b>2</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>136</b>		<b>0</b>		<b>11</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>149</b>
29-Jun	PHFB	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	14	0	0	0	0	0	0	0	21
29-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
29-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	20	28	0	0	0	0	0	0	0	0	0	0	48
29-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	10	15	0	0	0	0	0	0	0	0	0	0	25
29-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
29-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	20	12	0	0	0	0	0	0	0	0	0	0	32
29-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	15	17	0	0	0	0	0	0	0	0	0	0	32
29-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	40	3	0	0	0	0	0	0	0	0	0	0	43
<b>Avg/Survey</b>		<b>2</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>100</b>		<b>0</b>		<b>7</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>109</b>
30-Jun	PHFB	0	1	0	0	0	0	0	0	0	0	0	0	11	7	0	0	7	14	0	0	0	0	0	0	40
30-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
30-Jun	SW1	2	0	0	0	0	0	0	0	0	0	0	0	88	41	0	0	0	0	0	0	0	0	0	0	131
30-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	31	17	0	0	0	0	0	0	0	0	0	0	48
30-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	12	11	0	0	0	0	0	0	0	0	0	0	23
<b>Avg/Survey</b>		<b>2</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>112</b>		<b>0</b>		<b>11</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>124</b>





## Foraging Piscivorous Birds

