FISHWAY STATUS REPORT

 Date:
 9/14/2019

 Inspection Period:
 9/8/2019
 thru
 9/14/2019



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	Criteria	Total Number of Inspections:14Temperature:72 F									
	000	Limit	Secchi: 6.0 Ft.									
NORTH FISHWAY			In service with 4 out of 6 AWS pumps available									
Exit differential	0	≤ 0.5'										
Exit Control weirs	0	High setting	ng High setting is normal for JDN									
Count station differential	0	≤ 0.3'										
Weir crest depth (DS gauge)	0	1.0' ± 0.1'	L' Returned to salmon setting of 1.0 ' on 7/29.									
Entrance differential	0	1.0' - 2.0'	O' AVG 1.5									
SOUTH FISHWAY			2 out of 3 AWS turbines in service									
Exit differential	0	≤ 0.5'										
Exit Control weirs	0	Mid setting	ng Mid setting is normal for JDS									
Count station differential	0	≤ 0.3'										
Weir crest depth (US gauge)	0	1.0' ± 0.1'	L' Returned to salmon setting of 1.0 ' on 7/29.									
South entrance differential	1	1.0' - 2.0'	V AVG 1.2 scheduled power outage									
Entrance weir SE1	0	depth (≥ 8')	3') AVG 8.5									
Collection channel velocity	0	1.5 - 4 fps	AVG 2.40									
N. Entrance PH(Bay 19)differential	1	1.0' - 2.0'	V AVG 1.3 scheduled power outage									
Entrance weir NE1	0	depth (≥ 8')	3') AVG 9.2									
Entrance weir NE2	0	depth (≥ 8')	3') AVG 9.7									
JUVENILE PASSAGE												
Forebay/bypass conduit differential	0	4.0' - 5.0')' AVG 4.6									
Submersible traveling screens	0	visual inspect	ct Monthly inspection found one STS-MU4 and one VBS- MU16 with minor mesh tears, 8/19.									
Turbine trashrack drawdown	0	<1.5', wkly	ly N/A Trashrack raking completed by 8/29. Very little debris was found.									
Vert barrier screen drawdown	0	<1.5', wkly	ly N/A									
Spill volume	0	per FPP	Spill season ended on 8/31. Two TSWs were shut down on 8/29, the last work day.									
Spill pattern	0	per FPP	Bay 2 open at 1.6K during daylight hours for adult attraction to North Entrance since 9/1.									
Turbine Unit Priority	0	per FPP										
Turbine 1% Efficiency	0	per FPP										

SMOLT MONITORING FACILITY

Operation:

SMF continues in service, and in criteria since 13 March 2019.

Limited, twice a week sampling (Mondays and Thursdays) commenced after the JD forebay temperature reached 70 F on 25 July. Limited sampling will continue until river temperature drops down below 69.5 F.

Maintenance:

No maintenance issues of any kind at this time. Planning for the upcoming winter's SCADA update underway.

Research: None

ADULT FISHWAYS & TW AVIAN GRID

Birds:

USDA gull hazing ended on 31 July 2019.

The white pelicans numbers have been declining since mid August. See Bird Count tab for details.

All 125 avian lines in place without any deficiencies.

Operations:

Monthly STS inspection completed by 8/22. STS@MU4 and VBS@MU16 were found with minor mesh tears on 8/19. Both were repaired by the next day. MU Gatewell Drawdown All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

Maintenance:

JD South Fishway continues operating with two AWS turbines (No. 1 & 2) since early April. AWS turbine No. 3 waiting for the replacement of its thrust bearing which is on order/in contracting (at approx. \$ 20 K.)

JD North Fishway continues operating in criteria. However, 2 out of 6 its ASW pumps are OOS due to auto greaser and oil leaks issues since mid June. JD Maintenance is planning for unstocking/ inspection of pump # 3 to determine the undelaying causes in September 2019 (expensive work at \$ 45K)

North AWS pump 4 will be next to undergo similar repairs soon after #3 is done.

MU5 RTS originally scheduled for August, has been delayed due to unforeseen issues until 9/18.

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

Research:

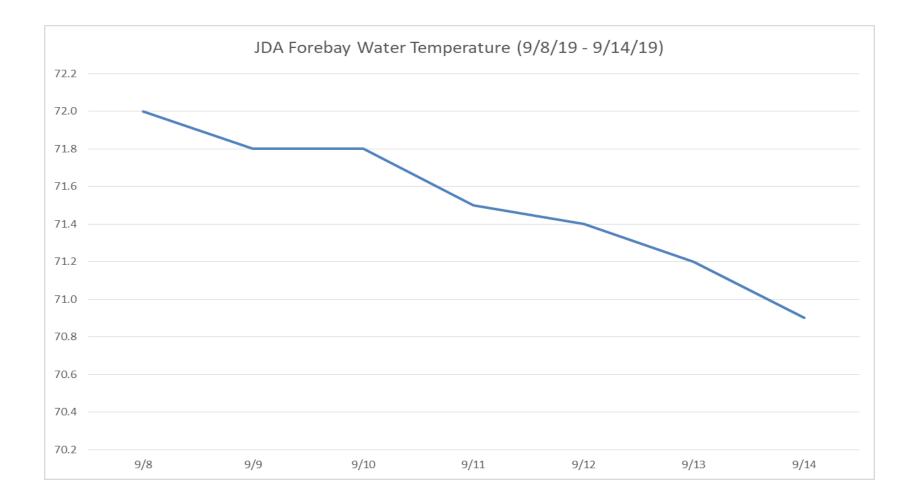
Four Peaks Env. adult salmonids counting at both JD fishways continues since 1 April 2019. The night video counting is ongoing as well.

Washington F &W NPM dam angling continues since late April with the season total of 1,835 fish as of September 1. No fishing occurred this week due to low catches.

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

Approved by: Ron Twiner, Acting OPM



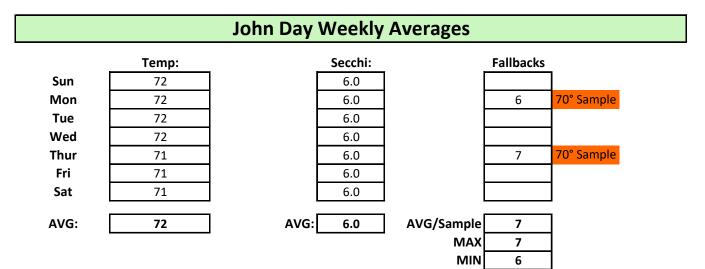
JDA Collection Channel Velocity

Date	13-Sep-19
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:13	73	2.47
2 - 4	2:33	153	2.25
4 - 6	3:50	230	2.34
6 - 8	5:05	305	2.40
8 - 10	6:25	385	2.25
10 - 12	7:42	462	2.34
12 - 14	8:55	535	2.47
14 - 16	10:13	613	2.31
16 - 18	11:18	678	2.77
			2.40

Bay 19 TW:	160.1]
Turbine 1&2:	68 RPM	Turbine #3 OOS

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



	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.9	9.4	1.3	8.5	1.5	4.6	1.4
Sun	8.4	9.1	1.4	8.3	1.6	4.6	1.4
Mon	9.2	9.7	1.2	8.7	1.6	4.6	1.5
Mon	9.3	10.0	1.2	8.6	1.6	4.6	1.0
Tues	9.3	9.9	1.2	8.6	1.5	4.6	1.3
Tues	9.3	10.0	1.3	8.9	1.5	4.6	1.5
Wed	8.9	9.4	0.0	8.5	1.6	4.7	0.5
Wed	9.2	9.8	1.5	8.3	1.6	4.6	1.4
Thur	9.3	9.9	1.5	8.2	1.5	4.6	1.5
Thur	9.3	10.0	1.4	8.6	1.6	4.6	1.5
Fri	9.2	9.8	1.3	8.6	1.5	4.6	1.5
Fri	9.6	10.1	1.3	8.9	1.6	4.6	1.5
Sat	9.0	9.5	1.4	8.0	1.6	4.6	1.5
Sat	9.0	9.6	1.3	8.2	1.7	4.6	1.3
AVG:	9.2	9.7	1.2	8.5	1.6	4.6	1.3

JDA Bird Counts: <u>9/8/19</u> to <u>9/14/19</u>

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

Date	Zone		G	Gulls			Cori	morant	:		Caspia	an tern			White	e Pelica	n		G	rebe		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)	
8-Sep	PHFB	0	0	0	0	0	0	6	5	0	0	0	0	0	0	0	0	0	0	0	0	11
8-Sep	SWFB	0	0	105	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
8-Sep	PH1	0	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
8-Sep	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-		5		04		1		5		0		0		0		0		0	(0	231
9-Sep		0	0	7	3	0	0	22	0	0	0	0	0	0	0	0	0	0	13	0	0	45
9-Sep		0	0	148	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
9-Sep		2	26	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	30
9-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep		0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Avg/Su		1			56		1		1		0		0	-	0		0		7		0	396
10-Sep		0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	10	0	10	33
10-Sep		0	0	130	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185
10-Sep		11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
10-Sep		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10-Sep		15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
10-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep		0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
10-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		1	-	-	3				4		0		0	-	0)		5		5	261
11-Sep		0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	18	9	0	9	56
11-Sep		0	0	87	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
11-Sep		21	6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
11-Sep		8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
11-Sep		42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
11-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep		0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18
11-Sep		0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Avg/Su	rvey	3	9	6	9	-	1	2	1		0	(0	(0	(0	1	.4		5	294

JDA Bird Counts: 9/8/19 to 9/14/19 NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Caspian tern Date Zone Gulls Cormorant White Pelican Grebe Total F(1) F(2) NF(1) NF(2) F(2) NF(1) NF(2) F(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) 12-Sep PHFB 12-Sep SWFB 12-Sep PH1 12-Sep PH2 12-Sep PH3 12-Sep SW1 12-Sep SW2 12-Sep SW3 Avg/Survey 13-Sep PHFB 13-Sep SWFB 13-Sep PH1 13-Sep PH2 13-Sep PH3 13-Sep SW1 13-Sep SW2 13-Sep SW3 Avg/Survey 14-Sep PHFB 14-Sep SWFB 14-Sep PH1 14-Sep PH2 14-Sep PH3 14-Sep SW1 14-Sep SW2 14-Sep SW3 Avg/Survey

Totals	Ğ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	363	1085	13	203	0	0	14	0	111	55	1844
Avg/Survey	26	78	1	15	0	0	1	0	8	4	132

