FISHWAY STATUS REPORT

 Date:
 8/10/2019

 Inspection Period:
 8/4/2019
 thru
 8/10/2019



JOHN DAY DAM JD/WC Project-Fisheries P.O. Box 823

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. Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspection	Criteria	Total Number of Inspections: 14 Temperature: 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	g High setting is normal for JDN
Count station differential	0	≤ 0.3'	
Weir crest depth (DS gauge)	0	1.0' ± 0.1'	Returned to salmon setting of 1.0 ' on 7/29.
Entrance differential	0	1.0' - 2.0'	AVG 1.5
SOUTH FISHWAY	0		2 out of 3 AWS turbines in service
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	Mid setting	g Mid setting is normal for JDS
Count station differential	0	≤ 0.3'	
Weir crest depth (US gauge)	0	1.0' ± 0.1'	Returned to salmon setting of 1.0 ' on 7/29.
South entrance differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir SE1	0	depth (≥ 8')) AVG 8.6
Collection channel velocity	0	1.5 - 4 fps	AVG 2.41
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6
Entrance weir NE1	1	depth (≥ 8')) AVG 9.5 OOC @7.8' on 8/5 pm due to PLC error. Adjusted immediately.
Entrance weir NE2	1	depth (≥ 8')) AVG 9.5 OOC @ 7.7' on 8/5 pm due to PLC error. Adjusted immediately.
JUVENILE PASSAGE	0		
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	t
Turbine trashrack drawdown	0	<1.5', wkly	/ N/A
Vert barrier screen drawdown	0	<1.5', wkly	/ N/A
Spill volume	0	per FPP	Spill season continues since 10 April
Spill pattern	0	per FPP	
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.

Maintenance:

No current maintenance issues of any kind. 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. Very few gulls were present in the JD tailrace BRZ but a recorded number of white pelicans, up to approximately 300-400 per inspection, were observed in July. 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 trash raking of the JD turbine intakes was completed in the last week of July. Very little debris was found.

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 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 an unstocking inspections to determine the undelaying causes.

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

Research:

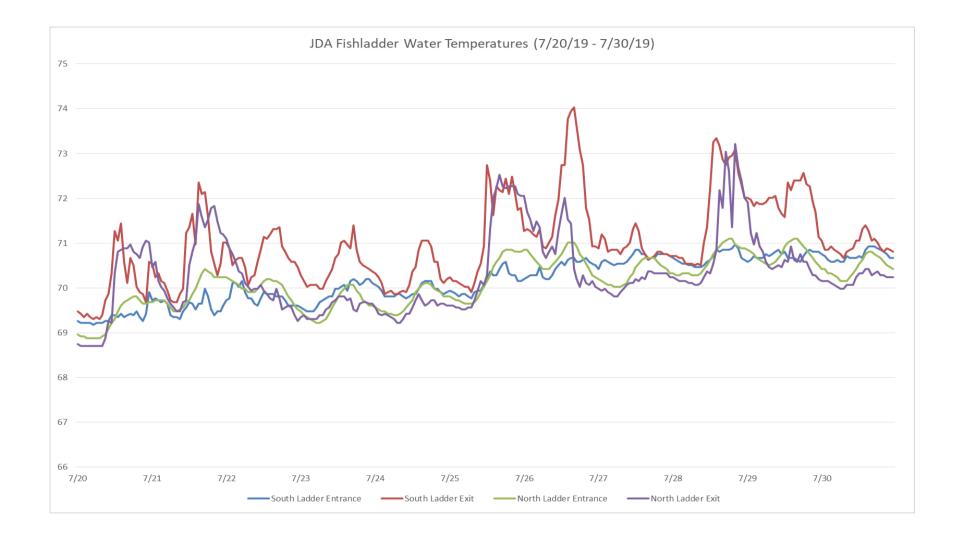
Four Peaks Env. Adult Salmonids counting at both JD fishways continues since 1 April 2019. The night video counting is ongoing as well.

Washington F &W NPM dam angling continues since late April with the season total of 1,833 fish as of August 11.

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

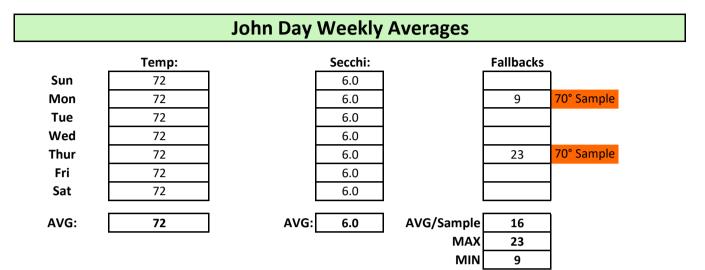
Date	2-Aug-19
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:21	81	2.22
2 - 4	2:36	156	2.40
4 - 6	3:52	232	2.37
6 - 8	5:10	310	2.31
8 - 10	6:36	396	2.09
10 - 12	7:49	469	2.47
12 - 14	9:03	543	2.43
14 - 16	10:15	615	2.50
16 - 18	11:18	678	2.86
			2.41

Bay 19 TW:	160.4
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	8.3	8.3	1.4	8.6	1.6	4.6	2.0
Sun	8.1	8.1	1.5	8.0	1.6	4.6	1.8
Mon	8.0	8.0	1.5	8.2	1.6	4.6	1.8
Mon	7.8	7.7	1.4	8.7	1.7	4.6	1.8
Tues	9.1	9.0	1.3	8.6	1.4	4.6	1.9
Tues	8.4	8.4	1.2	8.9	1.5	4.6	1.6
Wed	11.1	11.0	1.4	8.3	1.4	4.5	1.0
Wed	10.3	10.3	1.3	8.4	1.5	4.6	1.4
Thur	10.6	10.6	1.4	8.5	1.4	4.6	1.5
Thur	10.7	10.7	1.5	8.2	1.6	4.6	1.1
Fri	10.5	10.5	1.3	8.1	1.4	4.6	1.6
Fri	9.5	9.5	1.4	8.7	1.5	4.6	1.6
Sat	10.3	10.2	1.3	10.7	1.4	4.6	1.6
Sat	10.1	10.0	1.5	8.7	1.5	4.5	1.4
AVG:	9.5	9.5	1.4	8.6	1.5	4.6	1.6

JDA Bird Counts: <u>7/28/19</u> to <u>8/3/19</u>

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

Date	Zone		Ģ	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)	
28-Jul	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
28-Jul	SWFB	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	9
28-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	45	129	0	0	0	0	0	0	174
28-Jul		0	0	0	0	0	0	0	0	0	0	0	0	77	205	0	0	0	0	0	0	282
28-Jul		0	0	0	0	0	0	0	0	0	0	0	0	83	101	0	0	0	0	0	0	184
Avg/Su	-	(0	3	3	(0	()		0	(0	3	20	()	-	3		1	652
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	7
	SWFB	0	0	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	55	25	0	0	0	0	0	0	80
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	144	41	0	0	0	0	0	0	185
29-Jul		0	0	0	0	0	0	0	0	0	0	0	0	77	70	0	0	0	0	0	0	147
Avg/Su			0		0		0	(0		0		06)		2	1	2	<mark>498</mark>
30-Jul		0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	8
	SWFB	0	0	115	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
30-Jul		0	0	0	0	0	0	0	0	0	0	0	0	32	8	0	0	0	0	0	0	40
Avg/Su	-		0	-	1		0	(-		0	· · · · ·)	1	3)	-	2		0	272
31-Jul		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	5
	SWFB	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6	0	4	0	0	0	16
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	12	9	0	0	0	0	0	0	21
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	15	42	0	0	0	0	0	0	57
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	47	88	0	0	0	0	0	0	135
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	2	27	0	0	0	0	0	0	29
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	4	40	0	0	0	0	0	0	44
31-Jul		0	0	0	0	0	0	0	0	0	0	0	0	48	122	20	0	0	0	0	0	190
Avg/Su	urvey	(0	4	4	(0	()		0	(0	2	28	1	3	4	4	(0	497

JDA Bird Counts: <u>7/28/19</u> <u>to</u> <u>8/3/19</u>

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

Date	Zone	e Gulls					Cori	morant	:		Caspia	an tern			White	e Pelica	an		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)	
1-Aug	PHFB	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	7
1-Aug	SWFB	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
1-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	11	70	0	0	0	0	0	0	81
1-Aug	PH3	0	0	0	0	0	0	0	0	0	0	0	0	87	131	0	0	0	0	0	0	218
1-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Aug	SW2	0	0	0	0	0	0	0	0	0	0	0	0	12	58	0	0	0	0	0	0	70
1-Aug		0	0	0	0	0	0	0	0	0	0	0	0	261	52	0	0	0	0	0	0	313
Avg/Su		()	8	8	1	1	3	3		0	(0	34	43	(0	(0	(0	708
2-Aug		0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	27
2-Aug	SWFB	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	17
2-Aug	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Aug	PH2	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
2-Aug		0	0	0	0	0	0	0	0	0	0	0	0	63	27	0	0	0	0	0	0	90
2-Aug	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Aug	SW2	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
2-Aug		0	0	0	0	0	0	0	0	0	0	0	0	120	30	0	0	0	0	0	0	150
Avg/Su		6	5	1	1	()	(0		0	(0	1	54	(0	(6		0	351
3-Aug		0	0	1	0	0	0	8	0	0	0	0	0	2	0	0	1	0	0	8	0	20
3-Aug		0	0	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	25	3	0	0	0	0	0	0	28
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	50	25	0	0	0	0	0	0	75
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	4	6	0	0	0	0	0	0	10
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	22	13	0	0	0	0	0	0	35
3-Aug		0	0	0	0	0	0	0	0	0	0	0	0	85	47	0	0	0	0	0	0	132
Avg/Su	irvey	()	2	1	()	4	4		0	(0	14	41	:	1	(0	4	4	340

Totals	Ċ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	11	353	1	14	0	0	2868	27	31	13	3318
Avg/Survey	1	25	0	1	0	0	205	2	2	1	237

