

JDA Bird Counts: 11/22/15 to 11/28/15

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				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)	
22-Nov	PHFB	0	0	675	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	790
22-Nov	SWFB	0	0	1225	1499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2730
22-Nov	PH1	25	35	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
22-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-Nov	SW2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		30		1749		11		0		0		0		0		0		0		11		3602
23-Nov	PHFB	0	0	477	775	0	0	2	0	0	0	0	0	0	0	0	0	0	0	27	17	1298
23-Nov	SWFB	0	0	748	775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1531
23-Nov	PH1	32	55	5	0	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
23-Nov	PH2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Nov	PH3	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53
23-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW3	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Avg/Survey		44		1390		8		34		0		0		0		0		0		26		3002
24-Nov	PHFB	0	0	433	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	19	522
24-Nov	SWFB	0	434	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	487
24-Nov	PH1	53	32	0	0	17	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
24-Nov	PH2	7	16	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	36
24-Nov	PH3	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
24-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SW2	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24-Nov	SW3	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	51
Avg/Survey		273		272		14		33		0		0		0		0		0		18		1215
25-Nov	PHFB	0	0	278	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	474
25-Nov	SWFB	0	0	258	399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	657
25-Nov	PH1	0	0	11	0	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
25-Nov	PH2	7	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
25-Nov	PH3	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
25-Nov	SW1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SW3	0	0	0	0	0	0	63	71	0	0	0	0	0	0	0	0	0	0	0	0	134
Avg/Survey		17		564		9		68		0		0		0		0		0		8		1328

JDA Bird Counts: 11/22/15 to 11/28/15

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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)	
26-Nov	PHFB	0	0	46	305	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	4	373
26-Nov	SWFB	0	0	187	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	310
26-Nov	PH1	0	16	0	0	17	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
26-Nov	PH2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
26-Nov	PH3	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
26-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Nov	SW3	0	0	0	0	0	0	50	81	0	0	0	0	0	0	0	0	0	0	0	0	131
Avg/Survey		17		331		21		66		0		0		0		0		0		2	872	
27-Nov	PHFB	0	0	103	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	133
27-Nov	SWFB	0	0	104	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362
27-Nov	PH1	26	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
27-Nov	PH2	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
27-Nov	PH3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
27-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Nov	SW3	0	0	0	0	0	0	45	62	0	0	0	0	0	0	0	0	0	0	0	0	107
Avg/Survey		22		246		3		54		0		0		0		0		0		2	650	
28-Nov	PHFB	0	0	63	24	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	90
28-Nov	SWFB	0	0	149	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	450
28-Nov	PH1	26	15	0	0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
28-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Nov	SW3	0	0	0	0	0	0	53	63	0	0	0	0	0	0	0	0	0	0	0	0	116
Avg/Survey		21		269		8		60		0		0		0		0		0		0	712	
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		845		9637		143		624		0		0		0		0		0		132	11381	
Avg/Survey		60		688		10		45		0		0		0		0		0		9	813	

FISHWAY STATUS REPORT

Date: 11/28/2015
 Inspection Period: 11/22/2015 thru 11/28/2015

All JD Fishways are inspected twice per day during fish season, Mar. 1 - Nov. 30
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.



**US Army Corps
of Engineers**
Portland District

JOHN DAY DAM

JD/WC Project-Fisheries
 P.O. Box 823
 Rufus, Oregon 97050
 Phone: 541-506-7860

John Day Dam	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	51 F
	Out of Criteria	Limit				
NORTH FISHWAY			4 out of 6 AWS pumps available since 12/23/14			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	High setting	High setting is normal for JDN			
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			3 AWS Turbines in regular service since 2/28/15			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	High Setting	high setting since 10/18/15 due to high Forebay, above 265.0'			
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	1.6		
Entrance weir SE1	0	depth (≥ 8')	AVG	8.6		
Collection channel velocity	0	1.5 - 4 fps	AVG	3.04		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.4		
Entrance weir NE1	0	depth (≥ 8')	AVG	8.1		
Entrance weir NE2	0	depth (≥ 8')	AVG	8.2		
JUVENILE PASSAGE			SMF successfully dewatered on 11/24. JBS in service until 12/16 as required by FPP.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	Camera inspection of STSs:2 bad screens from MU1 were replaced w/ working spares 11/18			
Turbine trashrack drawdown	0	<1.5', wkly	MU trashracks' raking as necessary per the differentials			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	Bay2 & 1.6K	Spill season ended on 9/1. Bay 2 open at 1.6 K for JDN attraction, daylight hours only			
Spill pattern	0	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

End of season dewatering completed on 11/24. Approximately 150 adult salmonids, 12 sturgeon, 20 lamprey and a few catfish were evacuated through adult drain into the tailrace. SMF will be OOS/ undergoing maintenance until late March'15. JBS continues in service in its pre-SMF configuration (bypass at Crest Gate) until 12/16/15.

Maintenance:

SMF has been winterized by JD Fisheries on 11/15. Only regular PMs will be performed this coming winter as all SMF hardware appears to be in good working order overall.

Research:

None

Fallbacks: AVG: MAX: 0 MIN: 0

OTHER JOHN DAY ISSUES:

Birds :

see the Avian Numbers tab. We report all species and locations, but in reality only gulls in the tailrace BRZ are relevant at JD.

Spillway Avian Line 68 snapped on approx. 10/31. 12 lines are missing out of 125 total at this time.

The following avian lines have snapped this season and are out of commission: 44, 45, 46, 52, 53,55, 56, 57, 60 and 68.

Lines 25 and 26 had been missing since 2013; KC (contractor) has reinstalled them and adjusted all other lines by 11/21.

Operations:

JD North Fishway in regular service; 5 out of 6 AWS pumps are available. Repair work on pump 4 continues; pump 3 has vibration issues and should be the last last in service.

JD South Fishway in regular service with 3 AWS Turbines; it is meeting the optimal FPP criteria.

MU Gatewell Drawdowns: Differentials are checked Wednesdays and Sundays; all gatewells were in criteria.

Maintenance:

JD North AWS pumps: four out of total six are available. Repair of AWS pump # 4 by a contractor started on 1/26 & is ongoing.

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

Research:

2015 Adult Fish Counting by Normandeau Associates was completed on 10/31. The counting will commence again on 1 April 2016.

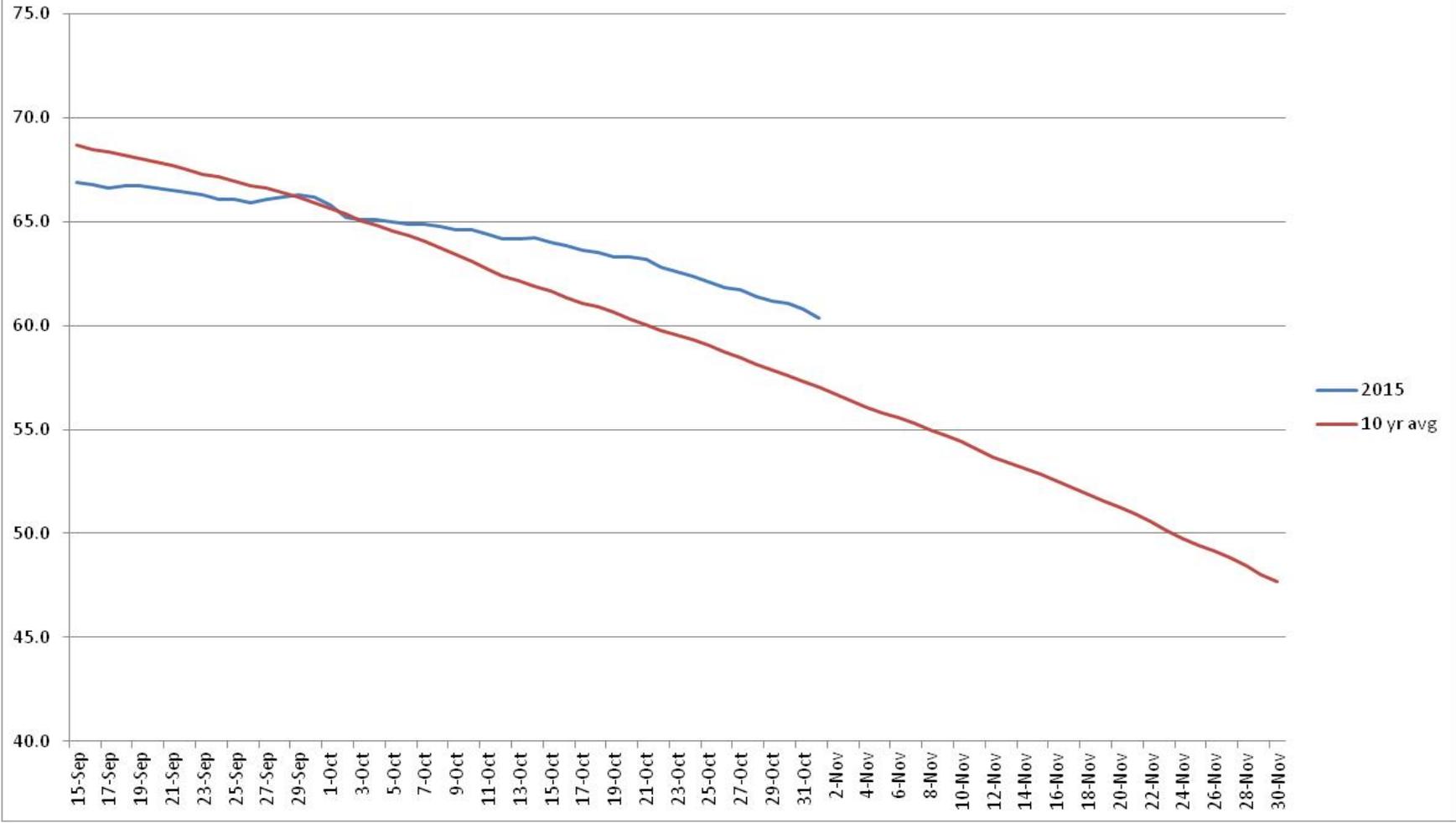
Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is at the design/PDT level.

Kevin Moynahan
OPM John Day/Willow Creek Project

Date: November 28, 2015

MOYNAHAN, KEVIN, PATRICK, 1393959157
E-Signed by MOYNAHAN, KEVIN, PATRICK, 1393959157
VERIFY authenticity with Approval

John Day TW Temperature



JDA Collection Channel Velocity

Date 24-Oct-15

By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:27	87	2.07
2 - 4	2:28	148	2.95
4 - 6	3:31	211	2.86
6 - 8	4:32	272	2.95
8 - 10	5:32	332	3.00
10 - 12	6:31	391	3.05
12 - 14	7:30	450	3.05
14 - 16	8:29	509	3.05
16 - 18	9:10	550	4.39
			3.04

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	52	6.0	
Mon	51	6.0	
Tue	51	6.0	
Wed	51	6.0	
Thur	50	6.0	
Fri	50	6.0	
Sat	49	6.0	
AVG:	51	6.0	AVG
			0
			MAX
			0
			MIN

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.2	8.3	1.4	8.7	1.4	4.5	1.3
Sun	8.1	8.4	1.4	9.1	1.5	4.6	1.2
Mon	8.2	8.3	1.8	8.5	1.6	4.6	1.6
Mon	8.1	8.3	1.4	9.3	1.5	4.6	1.2
Tues	8.1	8.3	1.8	8.7	1.7	4.6	1.4
Tues	8.1	8.1	1.7	8.7	1.6	4.1	1.4
Wed	8.1	8.1	1.7	8.6	1.6	4.6	1.4
Wed	8.0	8.0	1.5	8.5	1.5	4.6	1.3
Thur	8.1	8.1	1.6	8.2	1.6	4.6	1.4
Thur	8.2	8.2	1.5	8.4	1.5	4.6	1.4
Fri	8.1	8.1	1.7	8.4	1.5	4.5	1.3
Fri	8.0	8.0	1.6	8.4	1.6	4.5	1.5
Sat	8.2	8.2	1.6	8.5	1.5	4.6	1.3
Sat	8.1	8.1	1.5	8.9	1.1	4.6	1.4
AVG:	8.1	8.2	1.6	8.6	1.5	4.5	1.4