

FISHWAY STATUS REPORT

Date: 12/2/2017
 Inspection Period: 11/26/2017 thru 12/2/2017



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

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	Inspections	Criteria	Total Number of Inspections:	13	Temperature:	49 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			Scheduled for its annual dewatering on 12/4/17. OOS since 12/1 AM.			
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			In service since 3/3/17 with 2 out of 3 AWS turbines available.			
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	1.4		
Entrance weir SE1	0	depth (≥ 8')	AVG	8.8		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.35		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.6		
Entrance weir NE1	0	depth (≥ 8')	AVG	9.9		
Entrance weir NE2	0	depth (≥ 8')	AVG	9.8		
JUVENILE PASSAGE			JBS will continue in service through 12/15/17 for kelt passage protection.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6		
Submersible traveling screens	0	visual inspect	STS camera inspection for November completed by 11/22. All screens found in good condition.			
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack Crane in service since 6/01.			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.			
Spill pattern	0	per FPP	Bay 2 only.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

End-of-season dewatering of SMF was performed on 11/30. Estimated 200 fish (100 adult salmonids) were evacuated from the PDS via the adult drain pipe. SMF will return to service on 1 March 2018 which is one month earlier than the normal starting date at JD, per FPOM request.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: None**Birds :**

A large number of the overwintering, migratory gulls and other aquatic birds feeding extensively on the abundant juvenile shad in the PH Tailrace BRZ. see the Avian Numbers tab.

6 Tower-to-Tower, 6 Spillway, 6 Navlock (2 failed on 11/02) and 7 PH lines are missing out of 125 grid's total.

The avian lines' reinstallation contract was awarded in November and work is slated to commence in late December 2017.

Operations:

Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway OOS since 12/1 AM and is scheduled for dewatering on 12/04.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational condition until it's replaced with a brand new machine. However, the \$ 5 million for its replacement is not yet available.

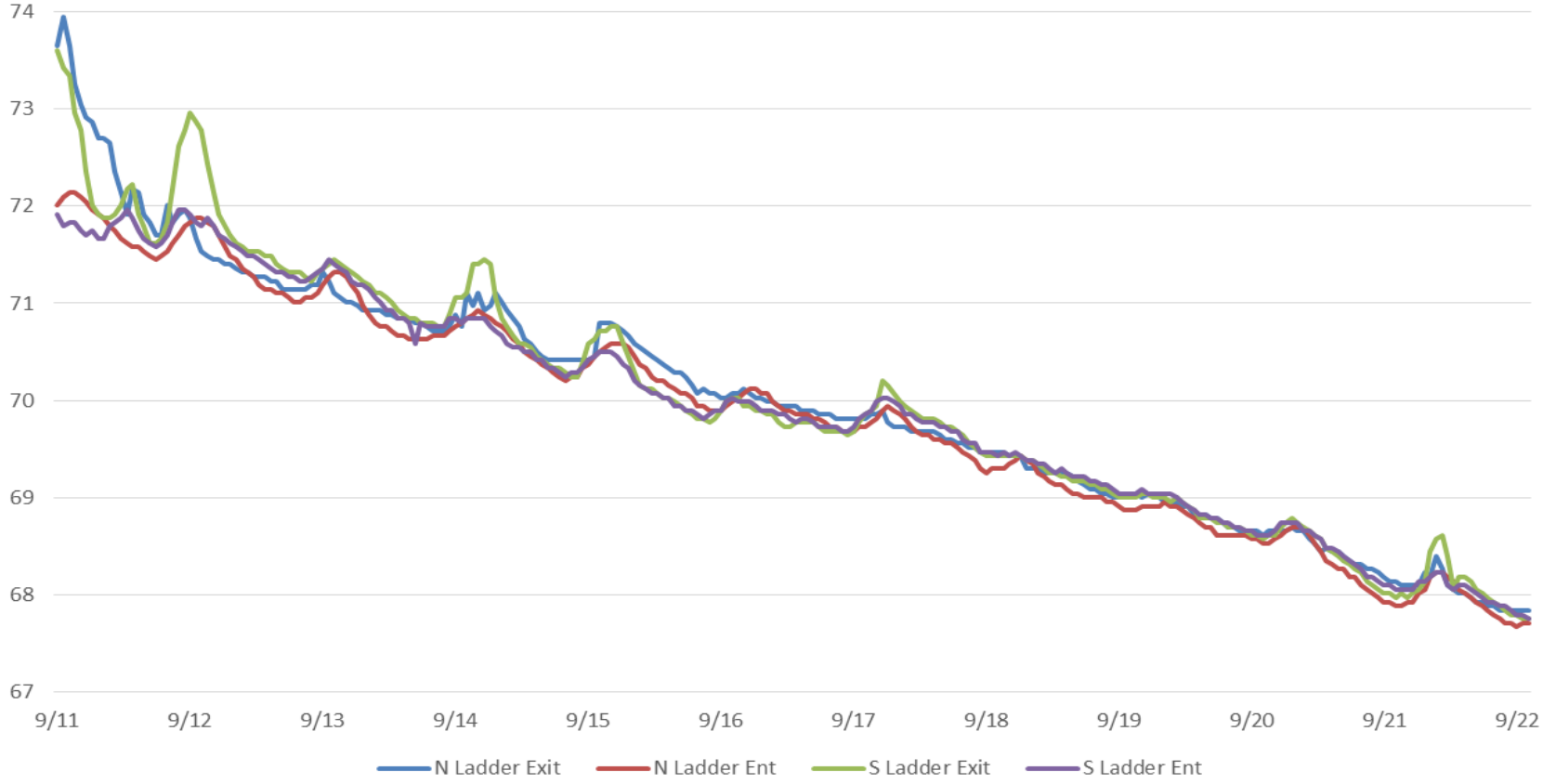
Calibration: All gauges/ sensors are within the criteria of 0.3' .

Research:

PSMFC crew continues with the Wi-Fi installation for the adult PIT Systems. Both ladders will be ready to detect PITs by 1 March 2018.

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

Fishladder Water Temps JDA (9/11/17 - 9/22/17)



JDA Collection Channel Velocity

Date 18-Oct-17

By: MDL

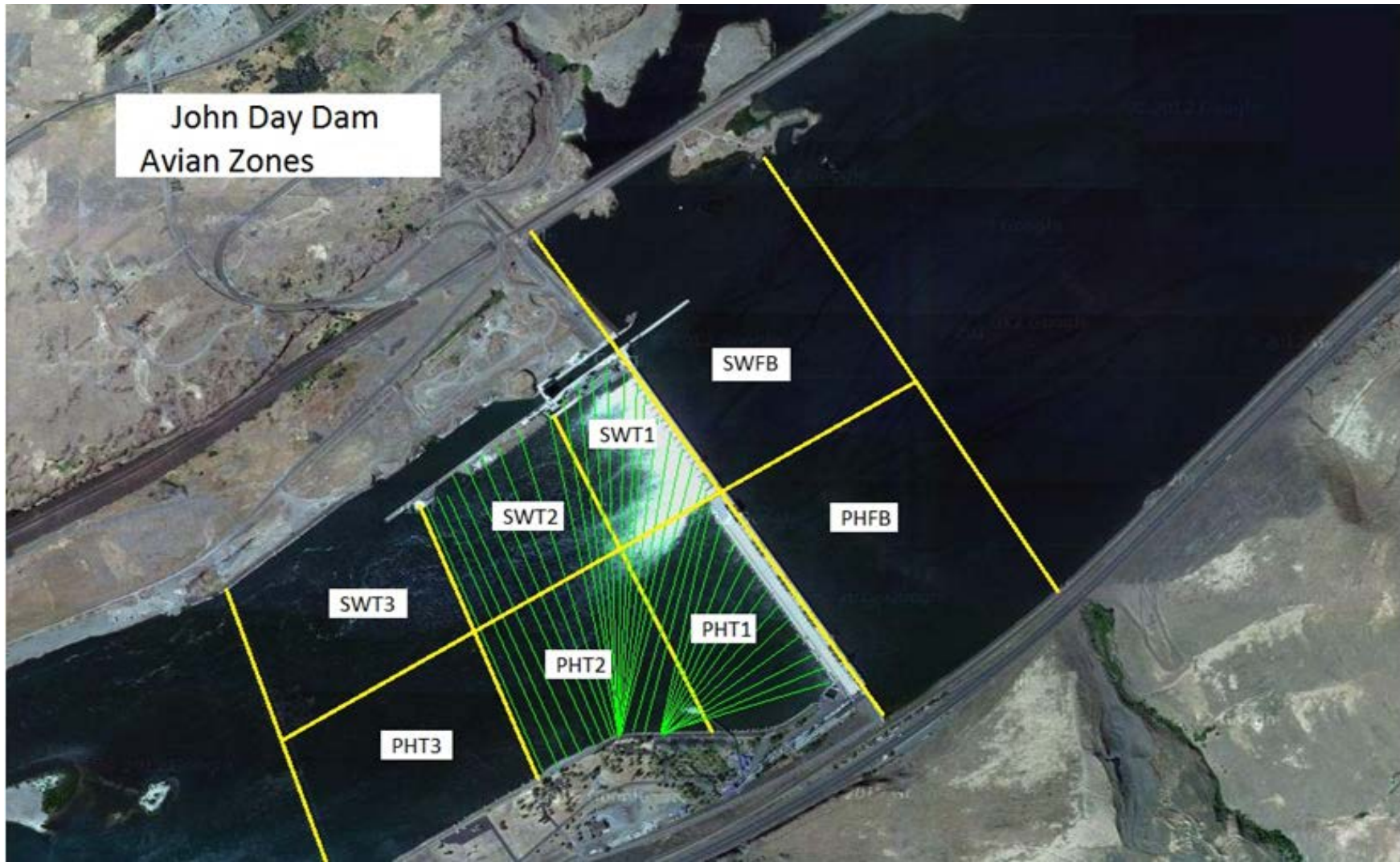
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:20	80	2.25
2 - 4	2:39	159	2.28
4 - 6	4:00	240	2.22
6 - 8	5:27	327	2.07
8 - 10	6:40	400	2.47
10 - 12	7:54	474	2.43
12 - 14	9:10	550	2.37
14 - 16	10:22	622	2.50
16 - 18	11:32	692	2.57
			2.35

TW Bay19 = 159.5

RPMs: 68/68 (2&3) (1 @ 0)

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

John Day Dam
Avian Zones



John Day Weekly Averages

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

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.6	10.4	1.4	8.9	1.5	4.6	1.5
Sun	10.5	10.3	1.4	8.9	1.5	4.6	1.7
Mon	10.4	10.1	1.2	9.4	1.4	4.6	1.5
Mon	10.1	10.1	1.2	8.9	1.4	4.6	1.6
Tues	9.3	9.4	1.4	8.7	1.6	4.6	1.5
Tues	9.4	9.3	1.4	9.1	1.5	4.5	1.6
Wed	9.4	9.3	1.3	8.9	1.5	4.5	1.7
Wed	9.4	9.4	1.3	9.2	1.5	4.5	1.7
Thur	9.8	9.8	1.4	8.3	1.5	4.5	1.7
Thur							
Fri	9.8	9.8	1.4	8.3	1.6	4.6	1.7
Fri	10.2	10.2	1.3	8.7	1.5	4.5	1.7
Sat	10.1	9.9	1.4	8.5	1.5	4.6	1.4
Sat	10.0	9.8	1.5	8.3	1.6	4.6	1.6
AVG:	9.9	9.8	1.4	8.8	1.5	4.6	1.6

JDA Bird Counts: 11/19/17 to 11/25/17

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)	
26-Nov	PHFB	0	0	0	0	0	0	34	17	0	0	0	0	0	0	0	0	0	0	0	0	0	51
26-Nov	SWFB	0	0	398	427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	825
26-Nov	PH1	59	31	27	0	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	
26-Nov	PH2	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
26-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	16	14	0	0	0	0	0	0	0	0	0	0	0	0	30	
26-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
vvg/Survey		53		426		10		41		0		0		0		0		0		0		1058	
27-Nov	PHFB	0	0	22	11	0	0	32	0	0	0	0	0	0	0	0	0	4	3	0	0	72	
27-Nov	SWFB	0	0	288	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	589	
27-Nov	PH1	62	39	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	
27-Nov	PH2	12	28	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	
27-Nov	PH3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
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	9	34	0	0	0	0	0	0	0	0	0	0	0	0	43	
27-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
vvg/Survey		72		321		1		38		0		0		0		0		4		0		869	
28-Nov	PHFB	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	14	0	0	0	52	
28-Nov	SWFB	0	0	325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	
28-Nov	PH1	44	0	11	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	
28-Nov	PH2	27	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
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	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
28-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
vvg/Survey		36		169		2		28		0		0		0		0		7		0		480	
29-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	
29-Nov	SWFB	0	0	0	1311	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1313	
29-Nov	PH1	71	87	8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168	
29-Nov	PH2	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	
29-Nov	PH3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
29-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29-Nov	SW2	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	35	
29-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
vvg/Survey		98		660		1		19		0		0		0		0		0		3		1559	

JDA Bird Counts: ### to ###

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)				
30-Nov	PHFB	0	0	16	555	0	0	11	0	0	0	0	0	0	0	0	0	0	6	0	588	
30-Nov	SWFB	0	0	514	251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	765	
30-Nov	PH1	95	87	0	0	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	197	
30-Nov	PH2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
30-Nov	PH3	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20	
30-Nov	SW1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	3	7	
30-Nov	SW2	0	0	0	0	0	0	14	50	0	0	0	0	0	0	0	0	0	0	0	64	
30-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
avg/Survey		94		668		8		50		0		0		0		0		0		5	1646	
1-Dec	PHFB	0	0	970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	977
1-Dec	SWFB	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
1-Dec	PH1	150	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
1-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
1-Dec	SW2	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
1-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
avg/Survey		75		498		3		25		0		0		0		0		0		6	1211	
2-Dec	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
2-Dec	SWFB	0	0	977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	977
2-Dec	PH1	41	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
2-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec	SW2	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50
2-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
avg/Survey		21		489		2		25		0		0		0		0		0		3	1078	
Totals		Gulls		Cormorant		Caspian tern		White Pelican		Grebe				Total								
		F		NF		F		NF		F		NF			F		NF					
Weekly Total		894		6458		50		446		0		0		21		32		7901				
avg/Survey		64		461		4		32		0		0		2		2		564				