

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 11/25/2023

Inspection Period: 11/19/2023 thru 11/25/2023



**US Army Corps
of Engineers**
Portland District

JD/WC Project-Fisheries
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Rufus, Oregon 97050
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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.

John Day Dam	Inspection OOC	Criteria Limit	Total Number of Inspections: 11			Temperature:	51.8 F
						Secchi:	6.0 Ft.
NORTH FISHWAY							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	High setting					
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					
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.)	1.4			
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	8.9			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.60			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.7			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.7			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.7			
JUVENILE PASSAGE							
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.6			
Submersible traveling screens	0	visual inspect	next inspection 11/27-11/30				
Turbine trashrack drawdown	0	<1.5', wkly					
Vert barrier screen drawdown	0	<1.2', wkly					
Spill volume	0	per FPP	Avg (kcfs)	1.6	Avg (%)	1.3	
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 concluded the 2023 sampling season on September 15th.

Adult Ladder Operations:

NFL is operating in criteria.

SFL turbine #2 RTS 3/20 @ reduced RPMs (55 RPMs) to prolong the repairs. SFL turbine #3 OOS (Philadelphia gear inspected on 2/22 and recommended FOOS - See 23JDA03) - Funding awarded (RTS-Unknown). FOG's removed

Project Operations:

Current outages: MU4 (ETR: 1/1/24), MU7 (ETR: 7/31/28), MU8 (ETR 12/1/23), MU15 (ETR: 12/6/23)

Spillbay Outages: #1-missing brake/motor (ETR Unknown), #6 and #10-operates in manual/local mode only (ETR: Unknown)

From Aug. 15 - Nov. 30, spillbay #2 will be open 1-stop (approximately 1.6 kcfs), during daylight hours, for NFL adult fish attraction.

Weekly Average Tailwater TDG: 98.1

Maintenance:

NFL AWS pump #4 is OOS with an unknown RTS date (see 21JDA02). NFL AWS pump #2 has a failed RTD sensor that keeps it from reading an accurate temperature on the lower bearing (occurred 4/22/23). Therefore, there is no overheat fail safe and it is being run as a last on first off pump (the pump will need to be unstacked to repair the sensor). The repair date is unknown.

Calibration: All gauges within the 0.3' criteria.

Bird Data:

Foraging gull numbers have slightly decreased this week (~51/inspection), foraging grebes decreased this week (~39/inspection), and foraging cormorants remained steady this week (~4/inspection).

There are 5 pelicans hanging around Preacher's Island this week

21 of 125 avian lines down

Research:

Four Peaks started ladder counts on 3/1/23 and will be performing year-round counts for 2023 (Day video 11/1/23 - 2/29/24).

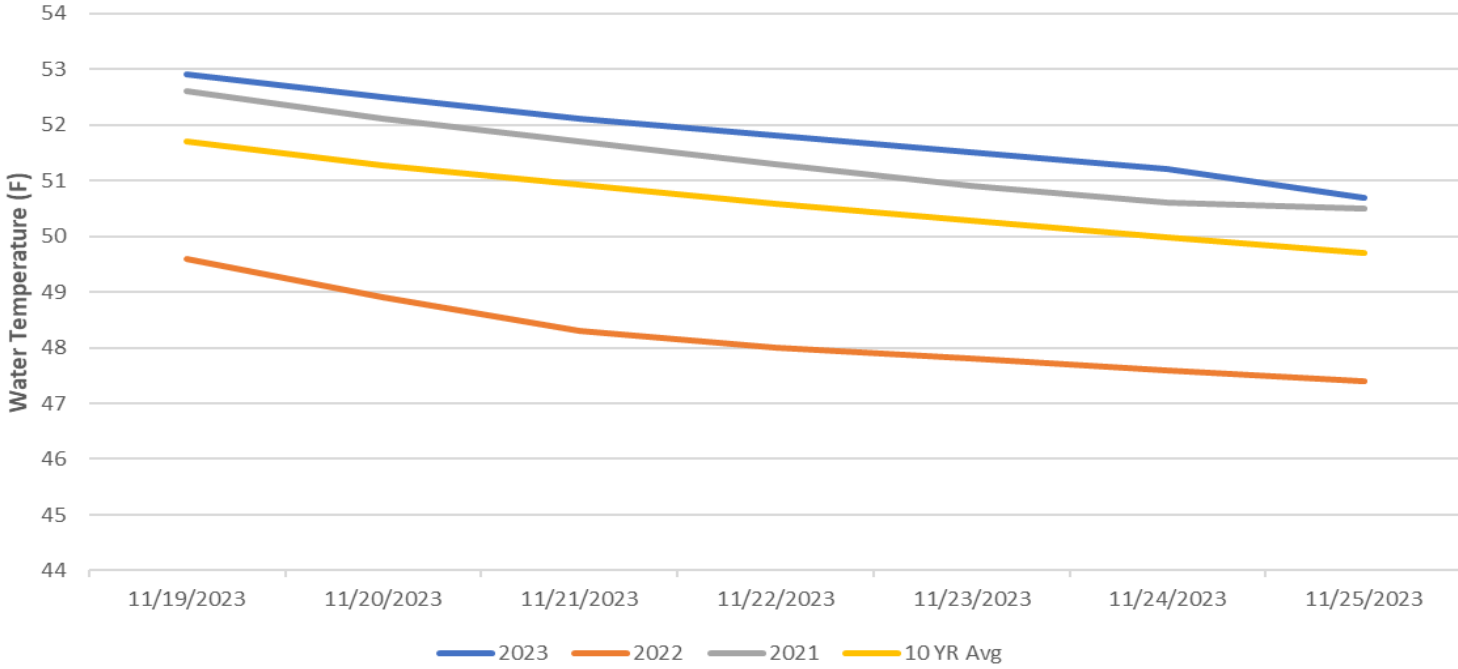
PSMFC smolt condition monitoring ended 9/15/23.

USDA hazing started on 04/16/23 and ended 07/31/23.

WDFW performing NPMP dam angling started 5/8/23 and ended 10/12/23.

CRITFC translocation ended on 9/6/23.

John Day Dam Water Temperature (F)



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)
11/20/2023	Unit 4	2.63	55,55,0	160.1
11/20/2023	Unit 12	2.57	55,55,0	160.1
11/22/2023	Unit 4	2.62	55,55,0	160.1
11/22/2023	Unit 12	2.42	55,55,0	160.1
11/25/2023	Unit 4	2.71	55,55,0	159.9
11/25/2023	Unit 12	2.66	55,55,0	159.9

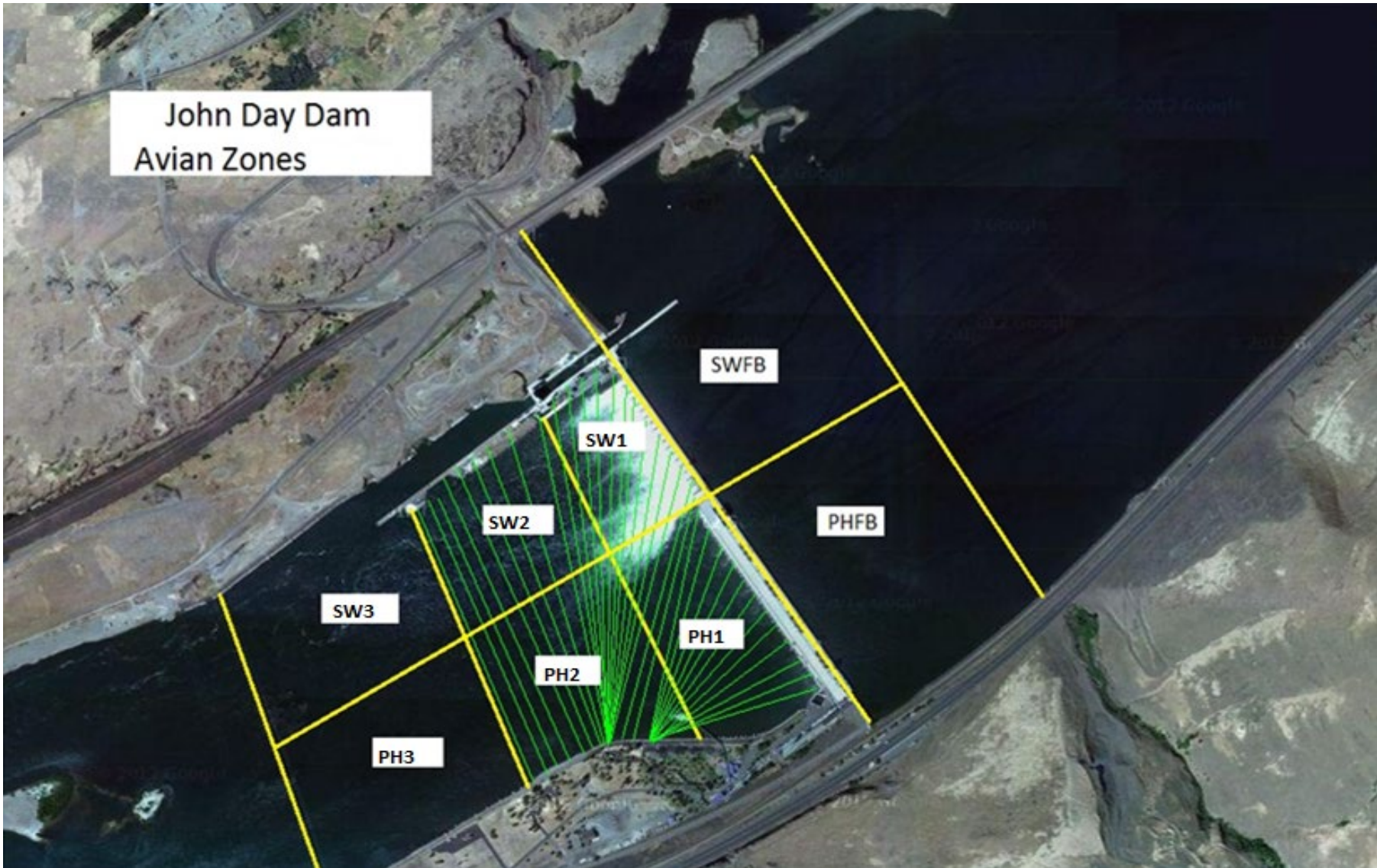
Average Weekly Velocity (ft/sec)	2.60
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JOHN DAY WEEKLY AVERAGES

	South Fish Ladder					NFL	JBS	Spill		
	SE1 (Ft)	S.Ent (Ft)	NE1 (Ft)	NE2 (Ft)	Bay19 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Spill Vol. (kcfs)	Spill (%)	# Spillbays
Sunday	8.4	1.5	9.0	9.0	1.8	1.6	4.6	1.6	1.6	1
Sunday	8.6	1.6	9.2	9.2	1.8	1.5	4.5	1.6	1.7	1
Monday	9.5	1.2	9.9	9.9	1.8	1.5	4.8	1.6	1.1	1
Monday	8.8	1.4	9.8	9.8	1.4	1.5	4.5	1.6	1.4	1
Tuesday	9.8	1.2	10.3	10.3	1.6	1.4	4.5	1.6	1.0	1
Tuesday	9.2	1.2	9.9	9.9	1.6	1.5	4.5	1.6	1.3	1
Wednesday	9.1	1.3	9.7	9.7	1.6	1.6	4.7	1.6	1.2	1
Wednesday	9.3	1.2	9.7	9.7	1.5	1.5	4.5	1.6	1.3	1
Thursday	9.0	1.5	9.5	9.5	1.8	1.6	4.5	1.6	1.3	1
Thursday								1.6		1
Friday	8.3	1.4	9.8	9.8	1.8	1.5	4.6	1.6	1.3	1
Friday								1.6		1
Saturday	8.2	1.5	9.5	9.5	1.8	1.5	4.5	1.6	1.3	1
Saturday								1.6		1
AVG:	8.9	1.4	9.7	9.7	1.7	1.5	4.6	1.6	1.3	1.0

	Temp (F)	Secchi (Ft)	Notes
Sunday	52.9	6.0	Due to holiday only one inspection per day on Thursday, Friday and Saturday
Monday	52.5	6.0	
Tuesday	52.1	6.0	
Wednesday	51.8	6.0	
Thursday	51.5	6.0	
Friday	51.2	6.0	
Saturday	50.7	6.0	
AVG	51.8	6.0	

John Day Dam
Avian Zones



JDA Bird Counts: 11/19/23 to 11/25/23

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)	
19-Nov	PHFB	0	0	300	200	0	0	0	0	0	0	0	0	0	0	0	0	32	32	0	0	564
19-Nov	SWFB	0	0	310	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	630
19-Nov	PH1	50	30	15	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
19-Nov	PH2	102	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
19-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov	SW2	0	0	0	0	0	0	65	62	0	0	0	0	0	0	0	0	0	0	0	0	127
19-Nov	SW3	0	0	2	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Avg/Survey		116		574		5		69		0		0		0		0		32		0		795
20-Nov	PHFB	0	0	0	150	0	0	2	0	0	0	0	0	0	0	0	110	60	0	0	322	
20-Nov	SWFB	0	0	300	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	354
20-Nov	PH1	37	35	23	0	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
20-Nov	PH2	41	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
20-Nov	PH3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
20-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov	SW2	0	0	0	0	0	0	42	66	0	0	0	0	0	0	0	0	0	0	0	0	108
20-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		67		264		7		55		0		0		0		0		85		0		478
21-Nov	PHFB	0	0	125	175	0	0	0	0	0	0	0	0	0	0	0	57	128	0	0	485	
21-Nov	SWFB	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
21-Nov	PH1	25	30	0	28	10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
21-Nov	PH2	30	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
21-Nov	PH3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
21-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Nov	SW2	0	0	0	0	0	0	37	62	0	0	0	0	0	0	0	0	0	0	0	0	99
21-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		59		202		8		50		0		0		0		0		93		0		411
22-Nov	PHFB	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	62	60	0	0	147	
22-Nov	SWFB	0	0	150	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325
22-Nov	PH1	75	35	0	18	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
22-Nov	PH2	90	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
22-Nov	PH3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
22-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW2	0	0	0	0	0	0	40	63	0	0	0	0	0	0	0	0	0	0	0	0	103
22-Nov	SW3	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Avg/Survey		116		184		6		59		0		0		0		0		61		0		425

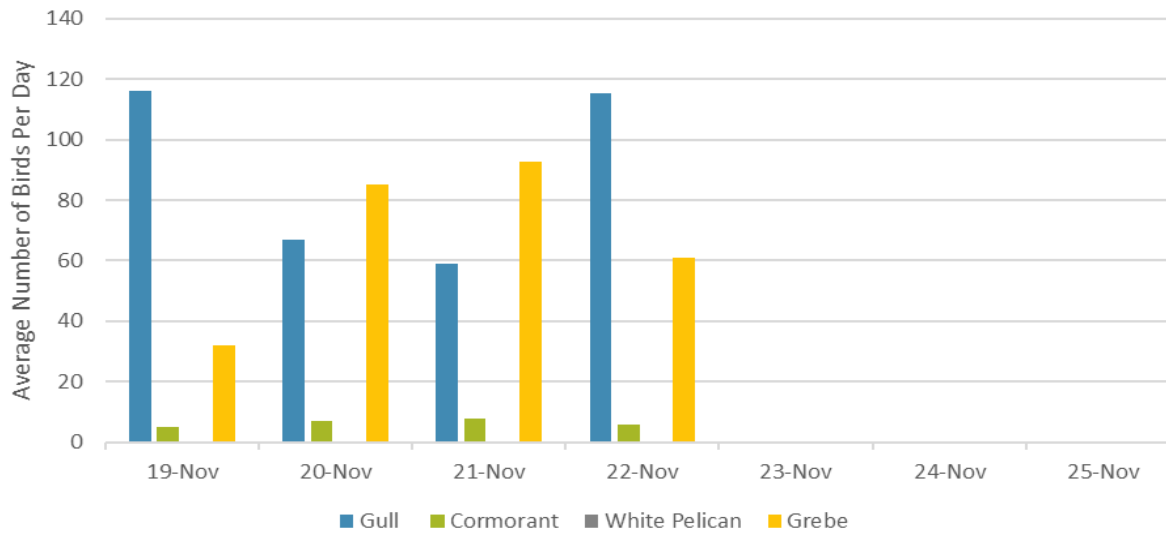
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Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
23-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Totals	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF					
Weekly Total	715	2445	52	463	0	0	0	0	0	0	0	0	0	541	0	4216					
Avg/Survey	51	175	4	33	0	0	0	0	0	0	0	0	0	39	0	301					

Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

