

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 11/19/2022

Inspection Period: 11/13/2022 thru 11/19/2022



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 OOC	Criteria Limit	Total Number of Inspections: 14			Temperature:	51.2 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.)	1.3			
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.3			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.47			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.1			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.4			
JUVENILE PASSAGE							
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.6			
Submersible traveling screens	0	visual inspect	next STS inspection- 11/21-11/24				
Turbine trashrack drawdown	0	<1.5', wkly					
Vert barrier screen drawdown	0	<1.2', wkly					
Spill volume	0	per FPP	AVG (kcfs)	1.7	Avg %		
Spill pattern	0	per FPP					
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

Fisheries Related Operations

Smolt Monitoring Operations:

Sampling has concluded for the year and the SMF is running in bypass mode with full-flow PIT detections

Adult Ladder Operations:

Both ladders are operating within criteria.

Project Operations:

Current outages: MU4 (ETR: 11/2/23), MU7 (ETR: 7/31/28), MU8 (ETR: 1/31/23), MU10 (ETR: 1/31/23) MU13 (ETR: 11/22/22) MU-14 (RTS: 11/21/22)

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

Maintenance:

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

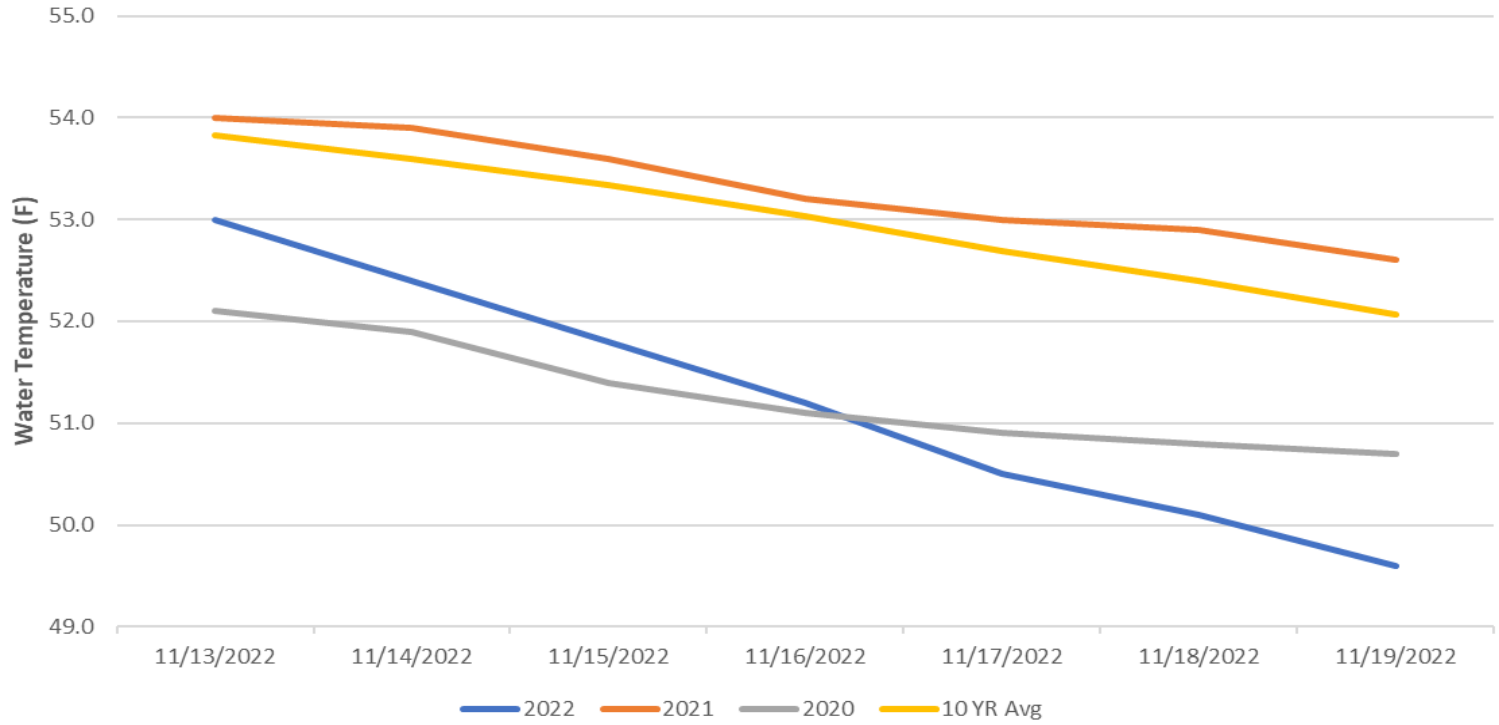
Gull and Cormorant numbers are holding steady, Grebe numbers are decreasing. There are approximately 3 pelicans hanging around Preacher's Island with very few foraging observations in JDA bird counting zones.

11 of 125 avian lines down.

Research:

Four Peaks Fish Counting concluded on 10/31.

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)
11/14/2022	Unit 4	2.44	0,68,68	160.0
11/14/2022	Unit 12	2.52	0,68,68	160.0
11/16/2022	Unit 4	2.50	0,68,68	159.8
11/16/2022	Unit 12	2.48	0,68,68	159.8
11/19/2022	Unit 4	2.41	0,68,68	159.6
11/19/2022	Unit 12	2.48	0,68,68	159.6

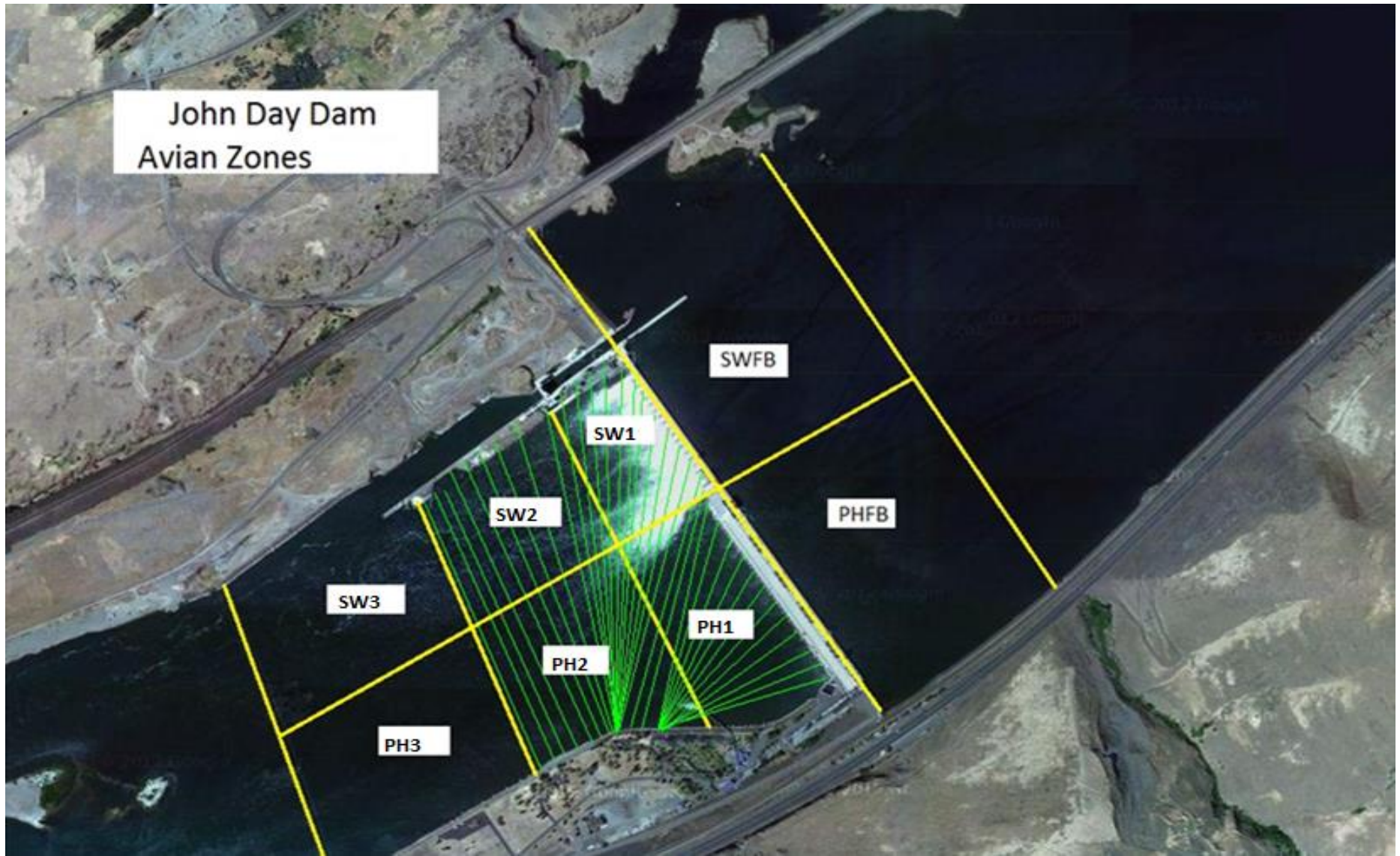
Average Weekly Velocity (ft/sec)	2.47
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JOHN DAY WEEKLY AVERAGES

	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)	# Spillbays
Sunday	9.4	1.2	9.2	9.5	1.6	1.5	4.5	1.8	1
Sunday	9.5	1.2	9.3	9.7	1.5	1.5	4.6	1.8	1
Monday	8.7	1.3	8.6	8.9	1.7	1.5	4.8	1.7	1
Monday	9.2	1.1	9.1	9.5	1.5	1.5	5.0	1.8	1
Tuesday	9.3	1.3	9.2	9.5	1.5	1.5	4.6	1.8	1
Tuesday	8.6	1.5	8.6	8.9	1.8	1.5	4.5	1.8	1
Wednesday	9.4	1.3	9.1	9.4	1.8	1.4	4.6	2.0	1
Wednesday	9.3	1.3	8.9	9.2	1.9	1.5	4.5	2.0	1
Thursday	9.7	1.2	9.2	9.5	1.8	1.6	4.7	1.8	1
Thursday	9.3	1.4	9.3	9.6	1.5	1.5	4.6	1.8	1
Friday	9.8	1.4	9.5	9.9	1.7	1.5	4.6	1.5	1
Friday	9.6	1.5	9.5	9.9	1.6	1.7	4.6	1.6	1
Saturday	9.7	1.1	9.3	9.6	1.7	1.4	4.4	1.5	1
Saturday	8.8	1.3	8.7	9.0	1.4	1.6	4.5	1.5	1
AVG:	9.3	1.3	9.1	9.4	1.6	1.5	4.6	1.7	1.0

	Temp (F)	Secchi (Ft)	Notes
Sunday	53.0	6.0	
Monday	52.4	6.0	
Tuesday	51.8	6.0	
Wednesday	51.2	6.0	
Thursday	50.5	6.0	
Friday	50.1	6.0	
Saturday	49.6	6.0	
AVG	51.2	6.0	

John Day Dam
Avian Zones



JDA Bird Counts: 11/13/22 to 11/19/22

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)	
13-Nov	PHFB	0	0	41	0	1	0	0	0	0	0	0	0	0	0	0	0	120	153	0	0	315
13-Nov	SWFB	0	0	762	856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1618
13-Nov	PH1	47	111	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164
13-Nov	PH2	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
13-Nov	PH3	16	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
13-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Nov	SW2	0	0	0	0	0	0	62	62	0	0	0	0	0	0	0	0	0	0	0	0	124
13-Nov	SW3	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total/Survey		168		830		4		71		0		0		0		0		137		0		1208
14-Nov	PHFB	0	0	42	53	0	0	0	0	0	0	0	0	0	0	0	0	44	56	0	0	195
14-Nov	SWFB	0	0	818	930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1748
14-Nov	PH1	10	33	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
14-Nov	PH2	35	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
14-Nov	PH3	30	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
14-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Nov	SW2	0	0	0	0	0	0	60	58	0	0	0	0	0	0	0	0	0	0	0	0	118
14-Nov	SW3	0	0	0	0	0	0	10	19	0	0	0	0	0	0	0	0	0	0	0	0	29
Total/Survey		102		922		3		74		0		0		0		0		50		0		1150
15-Nov	PHFB	0	0	301	1159	0	0	11	0	0	0	0	0	0	0	0	0	43	53	0	0	1567
15-Nov	SWFB	0	0	1099	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1099
15-Nov	PH1	0	0	23	52	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
15-Nov	PH2	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
15-Nov	PH3	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
15-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Nov	SW2	0	0	0	0	0	0	41	34	0	0	0	0	0	0	0	0	0	0	0	0	75
15-Nov	SW3	0	0	0	20	0	0	7	51	0	0	0	0	0	0	0	0	0	0	0	0	78
Total/Survey		43		1327		1		72		0		0		0		0		48		0		1491
16-Nov	PHFB	0	0	321	602	0	0	0	35	0	0	0	0	0	0	0	0	15	30	0	0	1003
16-Nov	SWFB	0	0	406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	406
16-Nov	PH1	20	75	22	50	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
16-Nov	PH2	0	25	150	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
16-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Nov	SW2	0	0	0	0	0	0	75	21	0	0	0	0	0	0	0	0	0	0	0	0	96
16-Nov	SW3	0	0	82	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Total/Survey		60		819		8		66		0		0		0		0		23		0		975

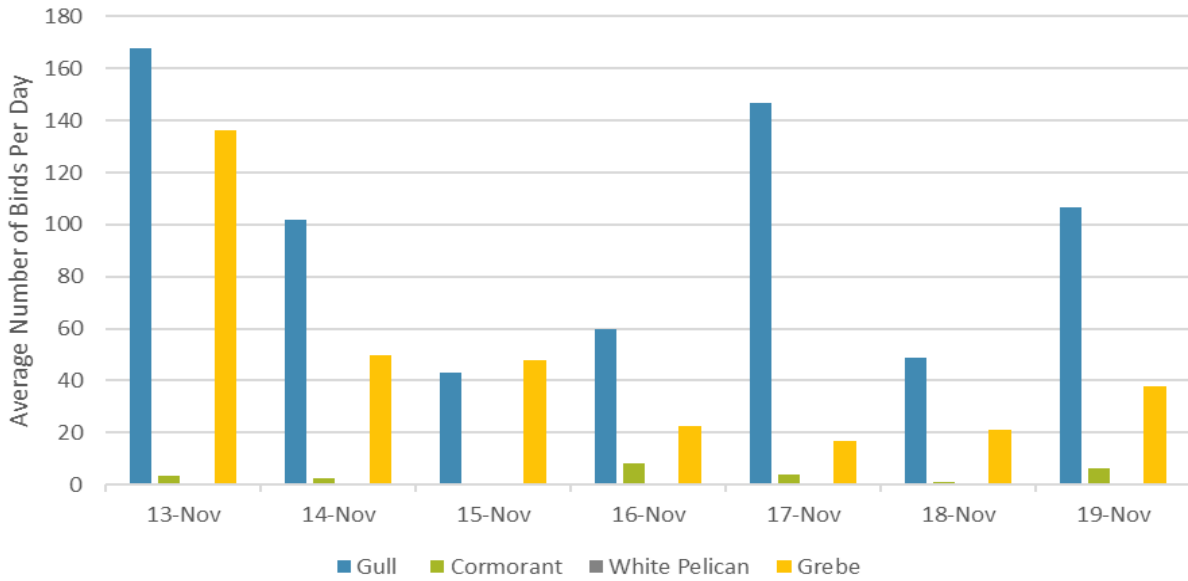
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Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
17-Nov	PHFB	0	0	821	223	0	0	12	0	0	0	0	0	0	0	0	0	12	22	0	0	1090
17-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	PH1	50	27	25	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
17-Nov	PH2	0	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
17-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Nov	SW2	0	0	0	0	0	0	60	56	0	0	0	0	0	0	0	0	0	0	0	0	116
17-Nov	SW3	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Total/Survey		147		535		4		79		0		0		0		0		17		0		782
18-Nov	PHFB	0	0	300	223	0	0	0	0	0	0	0	0	0	0	0	0	21	21	0	0	565
18-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Nov	PH1	3	6	10	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
18-Nov	PH2	35	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
18-Nov	PH3	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
18-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Nov	SW2	0	0	0	0	0	0	31	33	0	0	0	0	0	0	0	0	0	0	0	0	64
18-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		49		267		1		32		0		0		0		0		21		0		370
19-Nov	PHFB	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	43	33	0	0	81
19-Nov	SWFB	0	0	600	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1350
19-Nov	PH1	26	125	19	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
19-Nov	PH2	39	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
19-Nov	PH3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
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	63	0	0	0	0	0	0	0	0	0	0	0	0	128
19-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		107		685		7		67		0		0		0		0		38		0		902

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	1351	10764	52	918	0	0	0	0	0	0	0	0	0	0	666	0	6876				
Avg/Survey	97	769	4	66	0	0	0	0	0	0	0	0	0	48	0	982					

Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

