

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 11/12/2022

Inspection Period: 11/6/2022 thru 11/12/2022



**US Army Corps
of Engineers**
Portland District

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: 55.2 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.)	1.6			
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.)	9.5			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.49			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.3			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.6			
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)	1.6	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), MU6 (ETR: 11/16/22) MU7 (ETR: 12/31/28), MU8 (ETR: 1/31/23), MU10 (ETR: 1/31/23) MU13 (ETR: 11/22/22) MU14.

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:

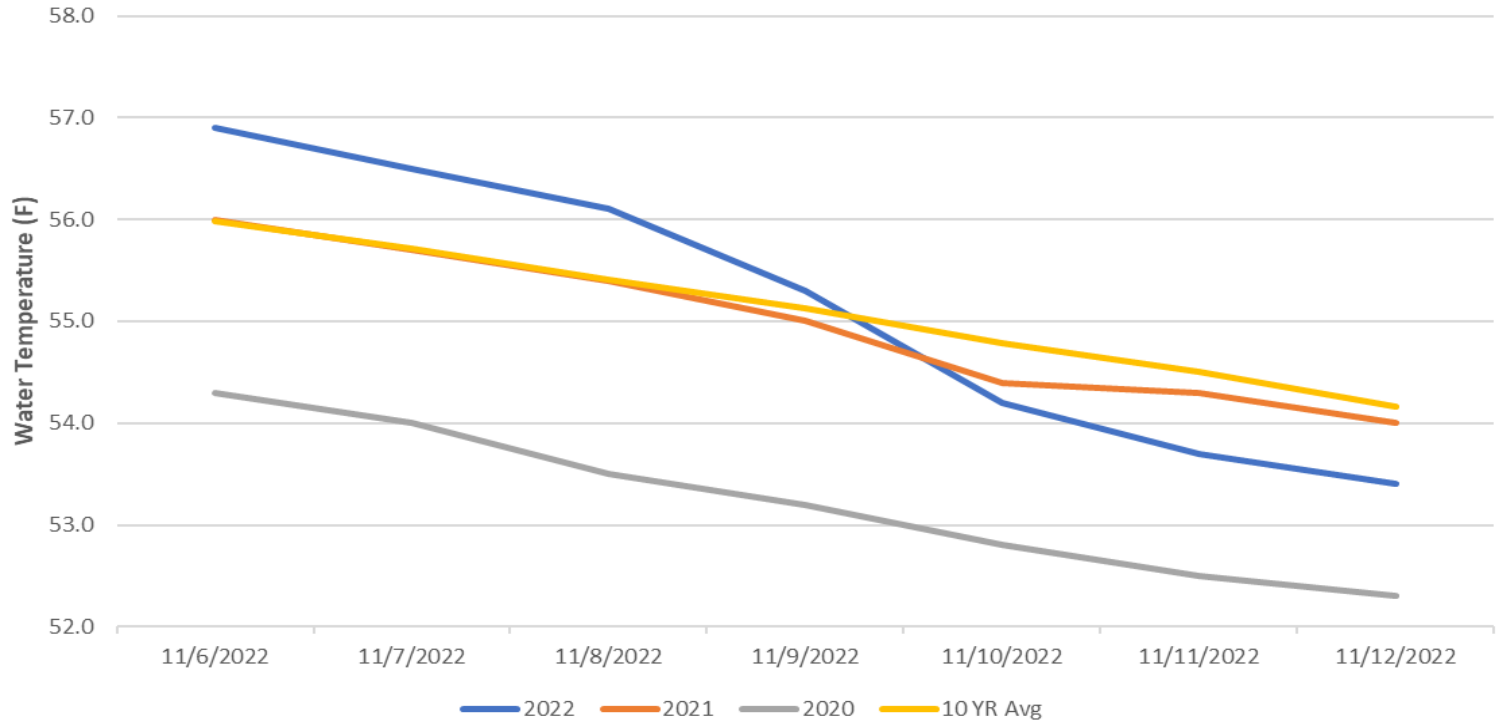
Gull, Cormorant, and Grebe numbers are holding steady. There are approximately 3 pelicans hanging around Preacher's Island with very few foraging observations in JDA bird counting zones.

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)
11/7/2022	Unit 4	2.34	0,68,68	159.5
11/7/2022	Unit 12	2.45	0,68,68	159.5
11/10/2022	Unit 4	2.55	0,68,68	161.0
11/10/2022	Unit 12	2.58	0,68,68	161.0
11/12/2022	Unit 4	2.48	0,68,68	160.2
11/12/2022	Unit 12	2.55	0,68,68	160.2

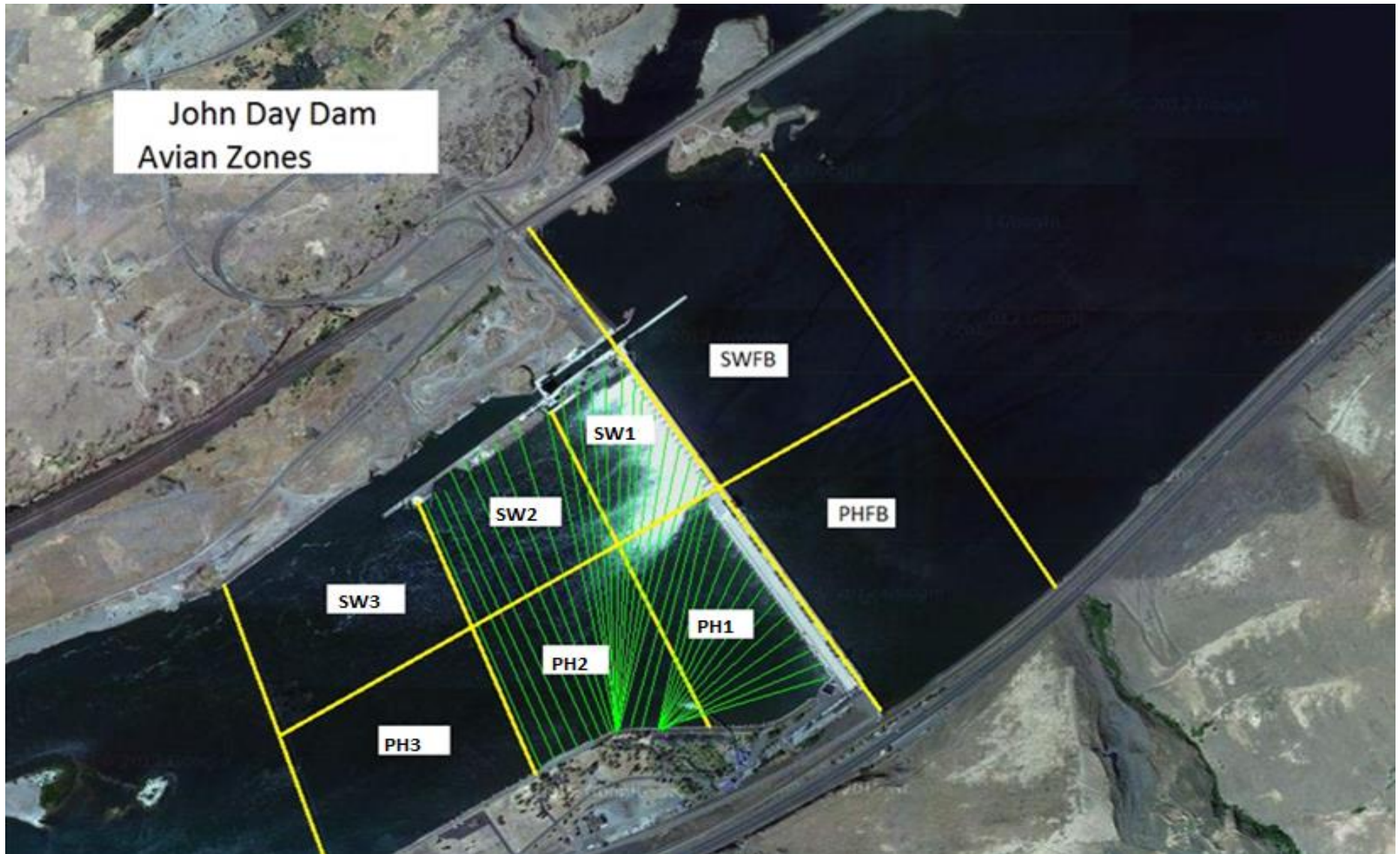
Average Weekly Velocity (ft/sec)	2.49
----------------------------------	------

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	10.2	1.1	9.9	10.2	1.6	1.5	4.7	1.6	1
Sunday	10.0	1.1	9.8	10.1	1.5	1.5	4.5	1.6	1
Monday	9.0	1.2	8.9	9.2	1.6	1.6	4.7	1.6	1
Monday	8.7	1.5	8.6	8.9	1.5	1.6	4.5	1.6	1
Tuesday	10.3	1.0	9.8	10.1	1.6	1.5	4.7	1.6	1
Tuesday	9.8	1.2	9.4	9.7	1.7	1.5	4.5	1.5	1
Wednesday	10.0	1.2	9.7	10.0	1.5	1.5	4.6	1.6	1
Wednesday	9.2	1.3	8.9	9.2	1.3	1.6	4.3	1.6	1
Thursday	9.7	1.4	9.6	9.8	1.6	1.6	4.6	1.6	1
Thursday	9.2	1.3	9.0	9.3	1.7	1.8	4.5	1.6	1
Friday	9.2	1.3	9.1	9.5	1.5	1.7	4.5	1.6	1
Friday	8.6	1.5	8.5	8.9	1.7	1.7	4.5	1.6	1
Saturday	9.7	1.2	9.4	9.7	1.7	1.5	4.8	1.6	1
Saturday	9.2	1.4	9.1	9.4	1.6	1.5	4.6	1.6	1
AVG:	9.5	1.3	9.3	9.6	1.6	1.6	4.6	1.6	1.0

	Temp (F)	Secchi (Ft)	Notes
Sunday	56.9	6.0	
Monday	56.5	6.0	
Tuesday	56.1	6.0	
Wednesday	55.3	6.0	
Thursday	54.2	6.0	
Friday	53.7	6.0	
Saturday	53.4	6.0	
AVG	55.2	6.0	

John Day Dam
Avian Zones



JDA Bird Counts: 11/6/22 to 11/12/22

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

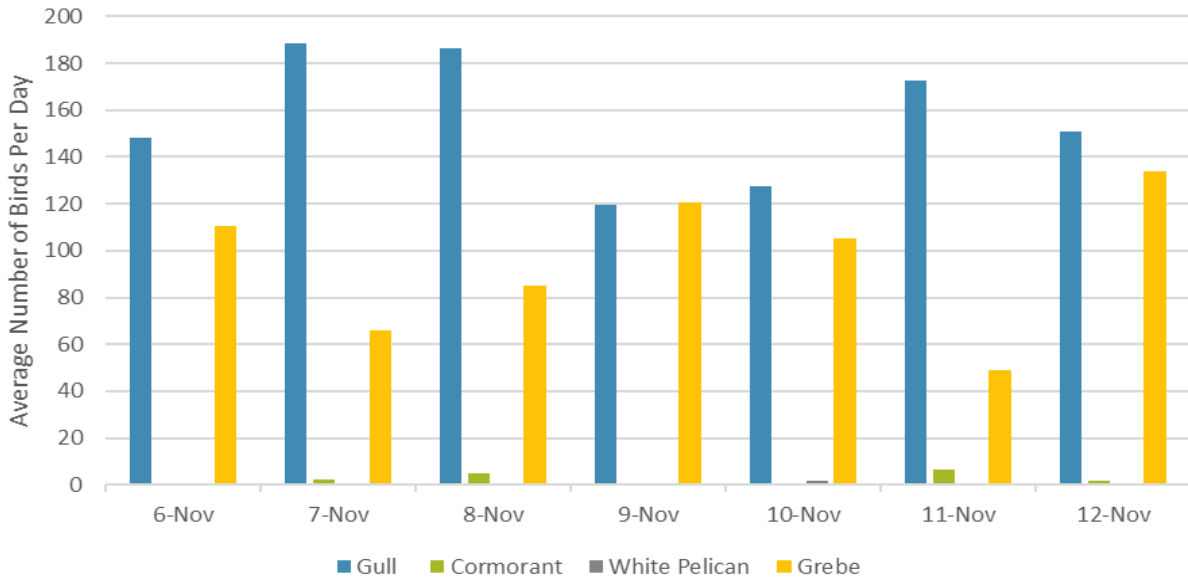
Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
6-Nov	PHFB	0	0	0	250	0	0	0	79	0	0	0	0	0	0	0	0	117	104	0	0	550
6-Nov	SWFB	0	0	900	575	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1475
6-Nov	PH1	0	45	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
6-Nov	PH2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6-Nov	PH3	115	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
6-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Nov	SW2	0	0	0	0	0	0	63	8	0	0	0	0	0	0	0	0	0	0	0	0	71
6-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		148		890		0		75		0		0		0		0		111		0		1223
7-Nov	PHFB	0	0	27	0	0	0	2	0	0	0	0	0	0	0	0	0	132	0	0	0	161
7-Nov	SWFB	0	0	715	585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1300
7-Nov	PH1	132	45	26	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
7-Nov	PH2	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
7-Nov	PH3	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
7-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Nov	SW2	0	0	0	0	0	0	53	41	0	0	0	0	0	0	0	0	0	0	0	0	94
7-Nov	SW3	0	0	0	0	0	0	33	15	0	0	0	0	0	0	0	0	0	0	0	0	48
Total/Survey		189		677		2		72		0		0		0		0		66		0		1005
8-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	81	0	0	170
8-Nov	SWFB	0	0	650	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1450
8-Nov	PH1	0	6	40	33	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
8-Nov	PH2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
8-Nov	PH3	230	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355
8-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Nov	SW2	0	0	0	0	0	0	61	69	0	0	0	0	0	0	0	0	0	0	0	0	130
8-Nov	SW3	0	0	0	0	0	0	10	7	0	0	0	0	0	0	0	0	0	0	0	0	17
Total/Survey		187		762		5		74		0		0		0		0		85		0		1112
9-Nov	PHFB	20	0	0	426	0	0	0	0	0	0	0	0	0	0	0	0	120	121	0	0	687
9-Nov	SWFB	0	0	712	406	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1119
9-Nov	PH1	121	98	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259
9-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Nov	SW2	0	0	0	0	0	0	35	25	0	0	0	0	0	0	0	0	0	0	0	0	60
9-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		120		792		0		31		0		0		0		0		121		0		1063

JDA Bird Counts: 11/6/22 to 11/12/22

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)	
10-Nov	PHFB	0	0	14	30	0	0	5	0	0	0	0	0	0	0	0	0	105	105	0	0	259
10-Nov	SWFB	0	0	721	609	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1330
10-Nov	PH1	50	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
10-Nov	PH2	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
10-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
10-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Nov	SW2	0	0	0	0	0	0	40	40	0	0	0	0	0	0	0	0	0	0	0	0	80
10-Nov	SW3	0	0	200	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	210
Total/Survey		128		787		0		48		0		0		2		0		105		0		1069
11-Nov	PHFB	0	0	0	255	0	0	0	73	0	0	0	0	0	0	0	0	72	26	0	0	426
11-Nov	SWFB	0	0	650	575	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1225
11-Nov	PH1	66	133	0	12	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
11-Nov	PH2	3	31	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
11-Nov	PH3	75	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
11-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Nov	SW2	0	0	0	0	0	0	57	34	0	0	0	0	0	0	0	0	0	0	0	0	91
11-Nov	SW3	0	0	0	0	0	0	13	4	0	0	0	0	0	0	0	0	0	0	0	0	17
Total/Survey		173		746		7		91		0		0		0		0		49		0		1065
12-Nov	PHFB	0	0	230	0	0	0	8	8	0	0	0	0	0	0	0	0	147	121	0	0	514
12-Nov	SWFB	0	0	800	657	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1457
12-Nov	PH1	0	135	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
12-Nov	PH2	25	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
12-Nov	PH3	40	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
12-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Nov	SW2	0	0	0	0	0	0	42	43	0	0	0	0	0	0	0	0	0	0	0	0	85
12-Nov	SW3	0	0	0	0	0	0	12	6	0	0	0	0	0	0	0	0	0	0	0	0	18
Total/Survey		151		844		2		60		0		0		0		0		134		0		1190
Totals	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total	
	F	F	NF	NF	F	F	NF	NF	F	F	NF	NF	F	F	NF	NF	F	F	NF	NF		
Weekly Total	2187	10992	30	897	0	0	3	0	1340	0	0	96	0	7725								
Avg/Survey	156	785	2	64	0	0	0	0	96	0	1104											

Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

