

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 12/3/2022

Inspection Period: 11/27/2022 thru 12/3/2022



**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: 11			Temperature: 46.3 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.)	1.2			
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	9.5			
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.44			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.2			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.6			
JUVENILE PASSAGE							
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.5			
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)	1.5	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:

SFL is running in criteria, the NFL was placed on orifice flow Nov 29th, and dewatered on December 1st (see 22JDA16) for winter maintance

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: 11/12/22) MU15&16 (ETR:12/15/22)

Spill Season ended on November 29th at JDA

Maintenance:

NFL down for Winter Maintenance

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

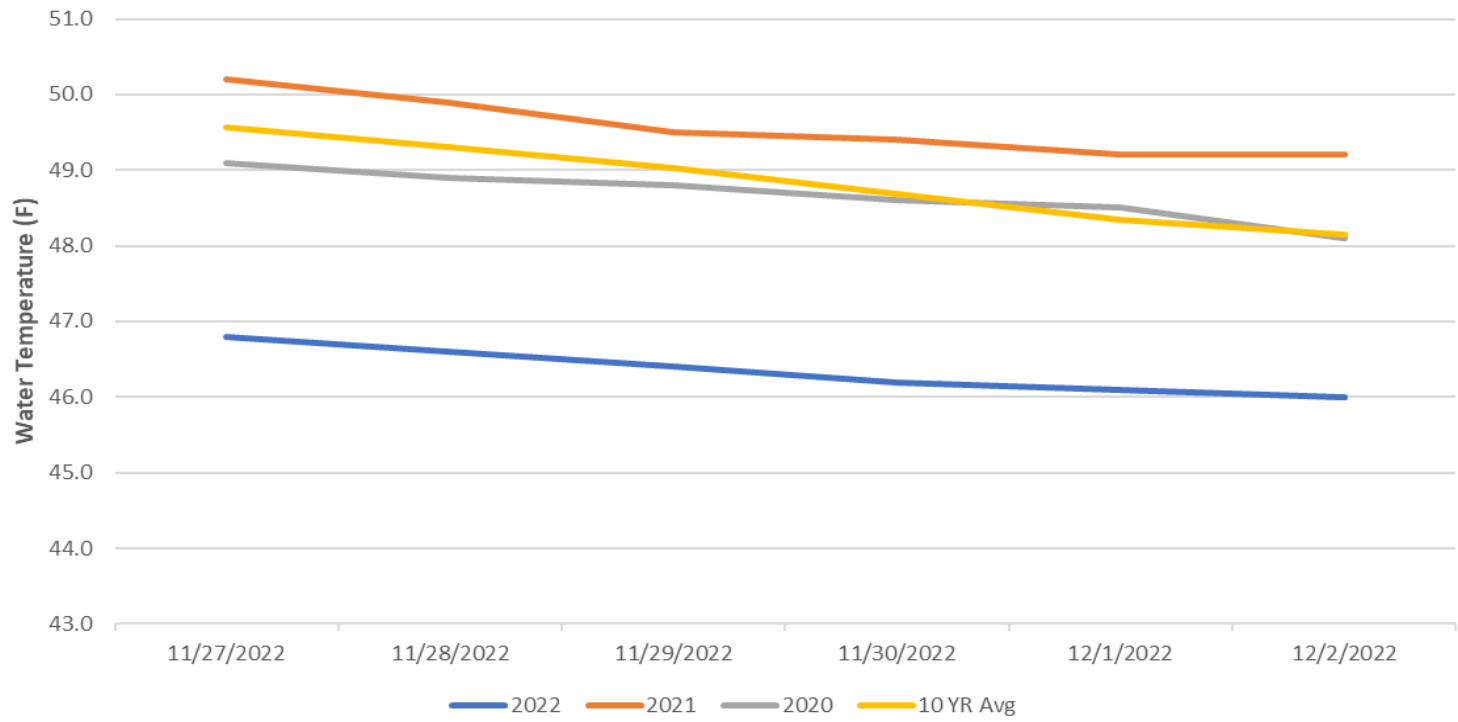
Gull and Cormorant numbers are holding steady, and Grebe numbers are decreasing. There are approximately 3 pelicans hanging around Preacher's Island with very few foraging observations in JDA bird counting zones.

11 of 125 avian lines down.

Research:

Preperations for the 2023 Research Season are underway - No new research is scheduled at this time

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)
11/28/2022	Unit 4	2.43	0,68,68	159.8
11/28/2022	Unit 12	2.47	0,68,68	159.8
11/30/2022	Unit 4	2.39	0,68,68	159.9
11/30/2022	Unit 12	2.42	0,68,68	159.9
12/2/2022	Unit 4	2.43	0,68,68	160.1
12/2/2022	Unit 12	2.47	0,68,68	160.1

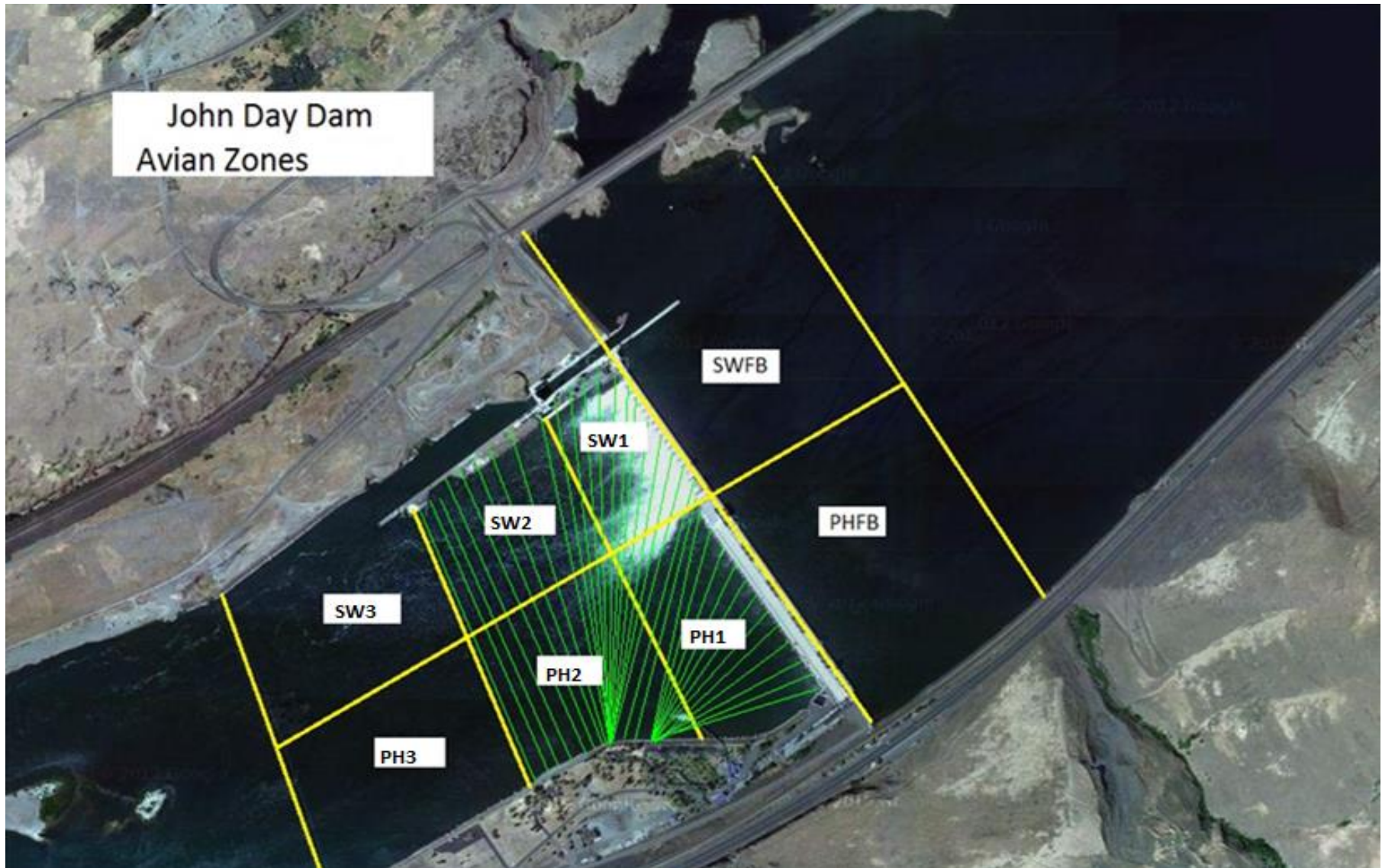
Average Weekly Velocity (ft/sec)	2.44
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JOHN DAY WEEKLY AVERAGES

	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	10.0	1.0	9.7	10.1	1.4	1.5	4.1	1.5	1
Sunday	9.7	1.1	9.4	9.8	1.7	1.4	4.6	1.6	1
Monday	9.4	1.3	9.3	9.7	1.4	1.4	4.6	1.5	1
Monday	9.2	1.3	9.1	9.4	1.5	1.5	4.6	1.5	1
Tuesday	9.8	1.3	9.6	9.9	1.5	X	X	X	X
Tuesday	9.0	1.4	8.9	9.2	1.5	X	X	X	X
Wednesday	9.0	1.2	8.7	9.0	1.7	X	X	X	X
Wednesday	8.8	1.4	8.5	8.8	1.6	X	X	X	X
Thursday	10.2	1.0	9.9	10.2	1.4	X	X	X	X
Friday	9.4	1.4	9.3	9.6	1.8	X	X	X	X
Saturday						X	X	X	X
AVG:	9.5	1.2	9.2	9.6	1.6	1.5	4.5	1.5	1.0

	Temp (F)	Secchi (Ft)	Notes
Sunday	46.8	6.0	X: Winter Maintenance
Monday	46.6	6.0	
Tuesday	46.4	6.0	
Wednesday	46.2	6.0	
Thursday	46.2	6.0	
Friday	46.0	6.0	
Saturday	45.8	6.0	
AVG	46.3	6.0	

John Day Dam
Avian Zones



JDA Bird Counts: 11/27/22 to 12/3/22

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)	
27-Nov	PHFB	0	0	0	122	0	0	0	24	0	0	0	0	0	0	0	0	10	12	0	0	168
27-Nov	SWFB	0	0	300	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500
27-Nov	PH1	0	87	0	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
27-Nov	PH2	1	42	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
27-Nov	PH3	21	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
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	54	58	0	0	0	0	0	0	0	0	0	0	0	0	112
27-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		78		311		6		68		0		0		0		0		11		0		474
28-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	16	0	0	31
28-Nov	SWFB	0	0	240	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	615
28-Nov	PH1	3	33	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
28-Nov	PH2	17	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
28-Nov	PH3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	68	63	0	0	0	0	0	0	0	0	0	0	0	0	131
28-Nov	SW3	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total/Survey		40		308		5		70		0		0		0		0		16		0		437
29-Nov	PHFB	0	0	41	0	0	1	0	0	0	0	0	0	0	0	0	0	15	12	0	0	69
29-Nov	SWFB	0	0	115	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	515
29-Nov	PH1	23	25	16	14	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
29-Nov	PH2	23	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
29-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	23	70	0	0	0	0	0	0	0	0	0	0	0	0	93
29-Nov	SW3	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total/Survey		48		293		6		49		0		0		0		0		14		0		409
30-Nov	PHFB	0	0	38	0	12	1	0	0	0	0	0	0	0	0	0	0	0	10	0	0	61
30-Nov	SWFB	0	0	25	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300
30-Nov	PH1	25	20	15	12	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
30-Nov	PH2	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
30-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Nov	SW2	0	0	0	0	0	0	30	45	0	0	0	0	0	0	0	0	0	0	0	0	75
30-Nov	SW3	0	0	0	0	0	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	11
Total/Survey		60		183		10		43		0		0		1		0		5		0		301

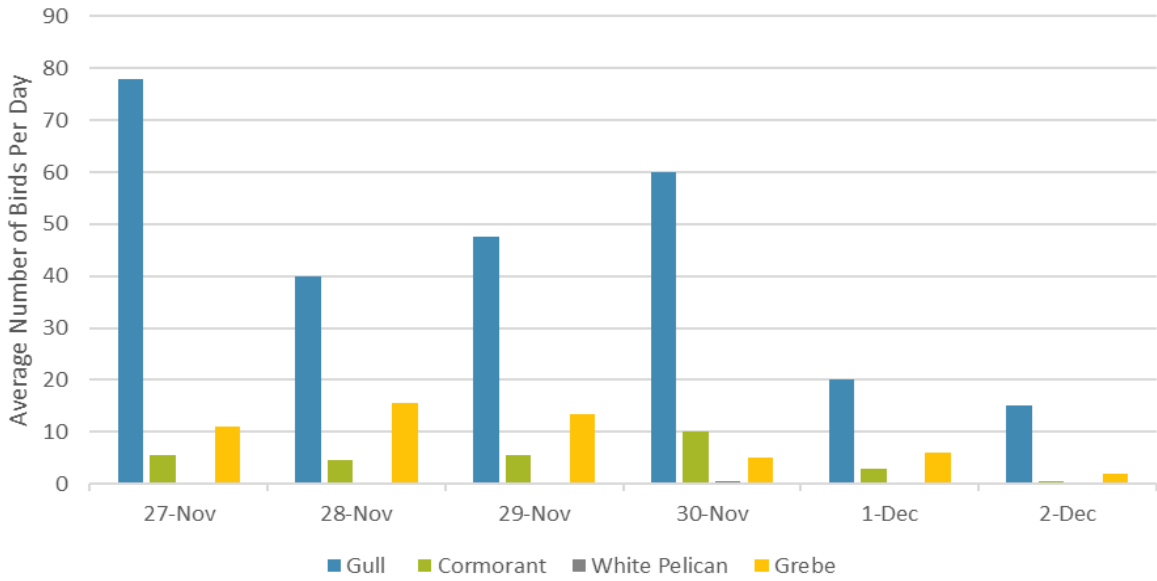
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1-Dec	PHFB	0	0	310	0	0	0	16	0	0	0	0	0	0	0	0	0	10	0	0	0	336
1-Dec	SWFB	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
1-Dec	PH1	10	0	13	0	6	0	0	0	0	0	0	0	0	0	0	2	0	0	0	31	
1-Dec	PH2	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	
1-Dec	PH3	0	0	0	0	0	0	0	0	0	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	0	0	
1-Dec	SW2	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	50	
1-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total/Survey		40		199		3		33		0		0		0		0		6		0		281
2-Dec	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
2-Dec	SWFB	0	0	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
2-Dec	PH1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	
2-Dec	PH2	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
2-Dec	PH3	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	
2-Dec	SW2	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	32	
2-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total/Survey		30		58		1		16		0		0		0		0		2		0		106
Total/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	
Weekly Total	521	2701	58	556	0	0	1	0	106	0	2007
Avg/Survey	52	270	6	56	0	0	0	0	11	0	394

Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

