

FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 3/26/2022

Inspection Period: 3/20/2022 thru 3/26/2022



**US Army Corps
of Engineers**
Portland District

JD/WC Project-Fisheries
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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: 14				Temperature:	43.5 F
							Secchi:	5.4 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.)	9.0				
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.53				
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6				
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.6				
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.5				

JUVENILE PASSAGE

Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	N/A				
Submersible traveling screens	0	visual inspect	STSs removed for winter maintenance					
Turbine trashrack drawdown	0	<1.5', wkly						
Vert barrier screen drawdown	0	<1.5', wkly						
Spill volume	0	per FPP	AVG (kcfs)	0.0	Avg %	0.0		
Spill pattern	0	per FPP						
Turbine Unit Priority	0	per FPP						
Turbine 1% Efficiency	0	per FPP						

Fisheries Related Operations

Smolt Monitoring Operations:

Tainter gate joint seal replaced. All PM's to PDS and screen cleaner complete. Maintenance on charcoal filtration system completed. Facility watered up on 17 March with no issues.

Adult Ladder Operations:

Both ladders are operating within criteria

Project Operations:

Current outages: MU3, MU4, MU7, MU12.

Adult fish passage season started 1 March. Juvenile fish passage season starts 1 April

Maintenance:

STS's repairs continue

Calibration:

All gauges within the 0.3' criteria.

Bird Data:

Cormorant numbers are steady around 30, mainly roosting on rocks in SW2. Gull numbers minimal. A pelican seen occasionally resting on Preacher's Island or PH3. Small number of Grebes have returned to PHFB. (see 'Bird Count' tab for details).

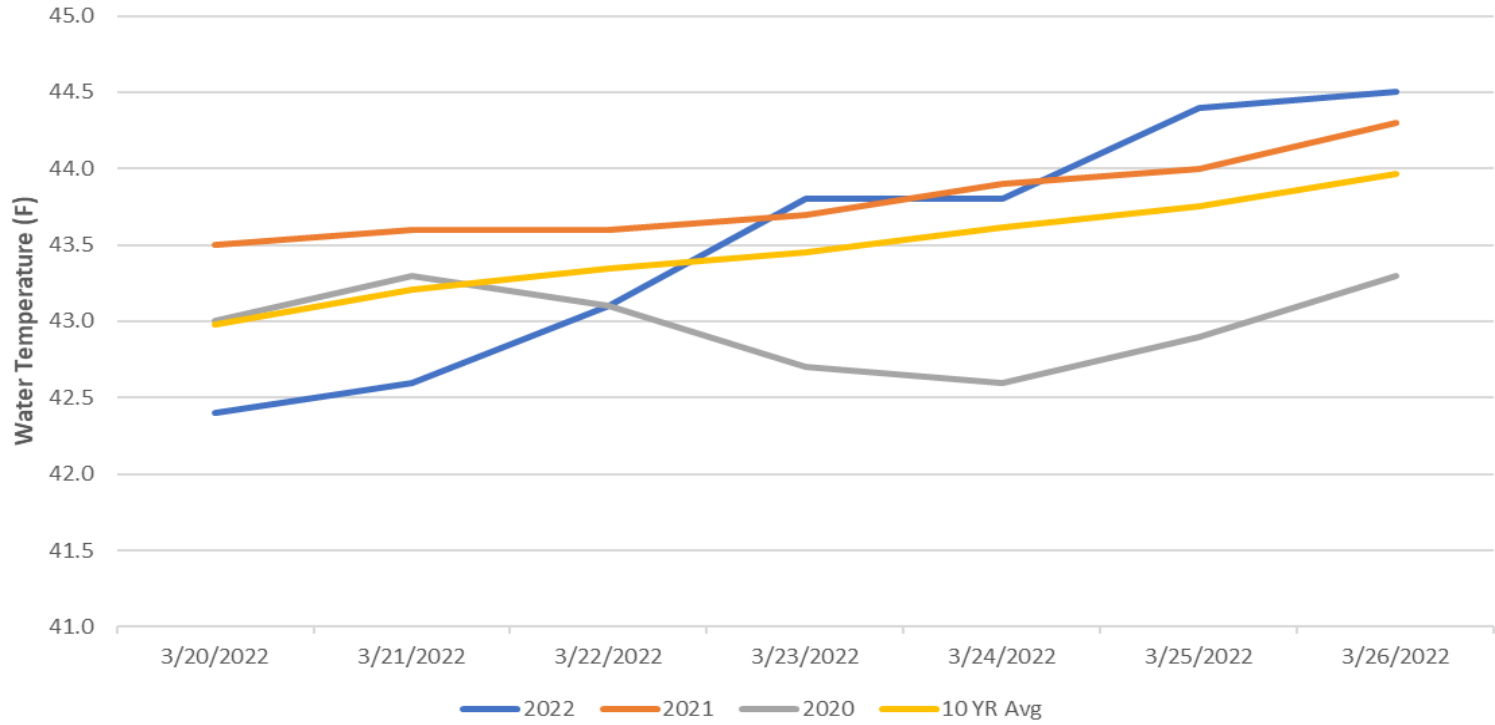
8 of 125 avian lines down. The 7 lines that were broken by the BPA line repair are scheduled to be replaced by the end of March.

Pelicans on Preacher's Island: averaged 0 per day

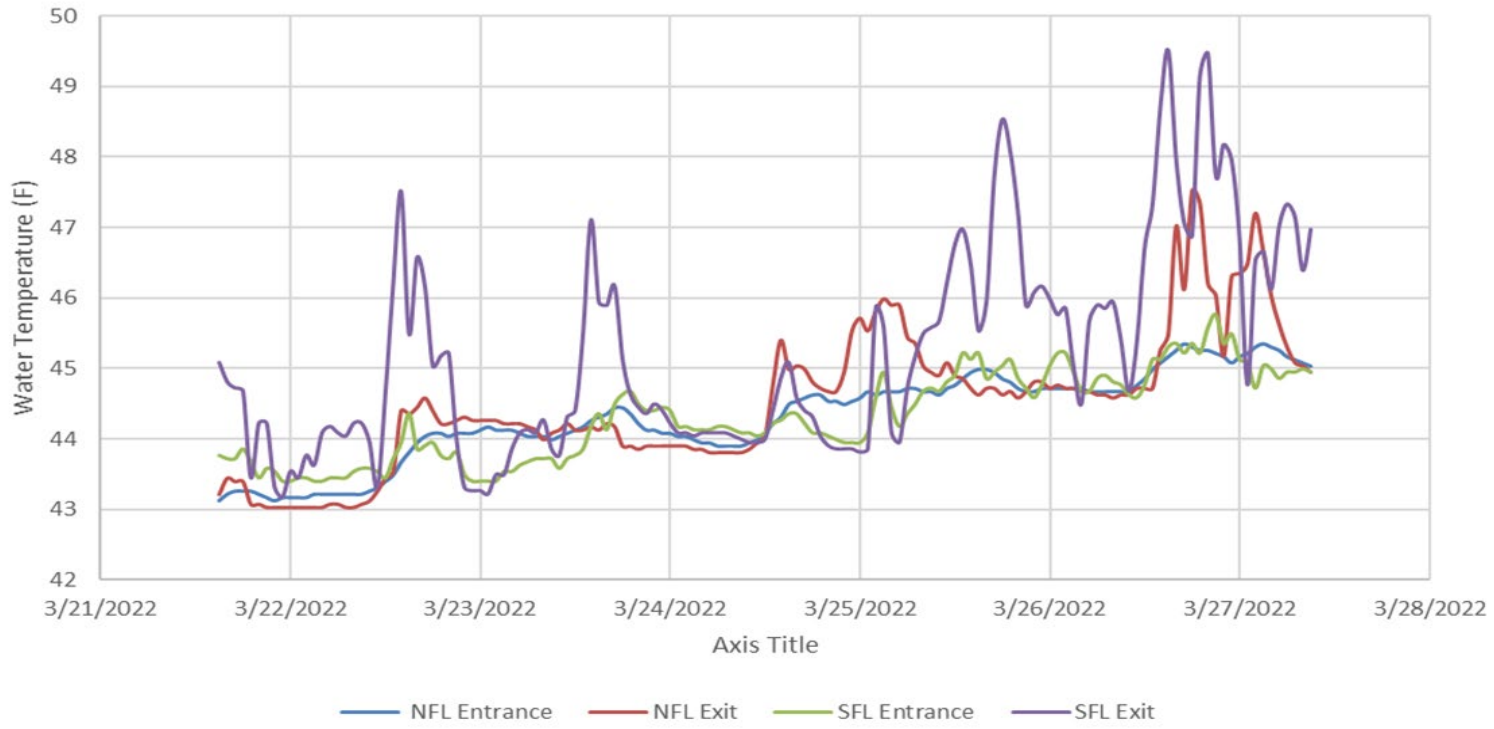
Research:

Adult fish counting will start 1 April.

John Day Dam Water Temperature (F)



JDA Ladder Temperatures



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)
3/21/2022	Unit 4	2.47	0,68,68	161.0
3/21/2022	Unit 12	2.59	0,68,68	161.0
3/24/2022	Unit 4	2.50	0,68,68	160.7
3/24/2022	Unit 12	2.50	0,68,68	160.7
3/26/2022	Unit 4	2.59	0,68,68	160.3
3/26/2022	Unit 12	2.53	0,68,68	160.3

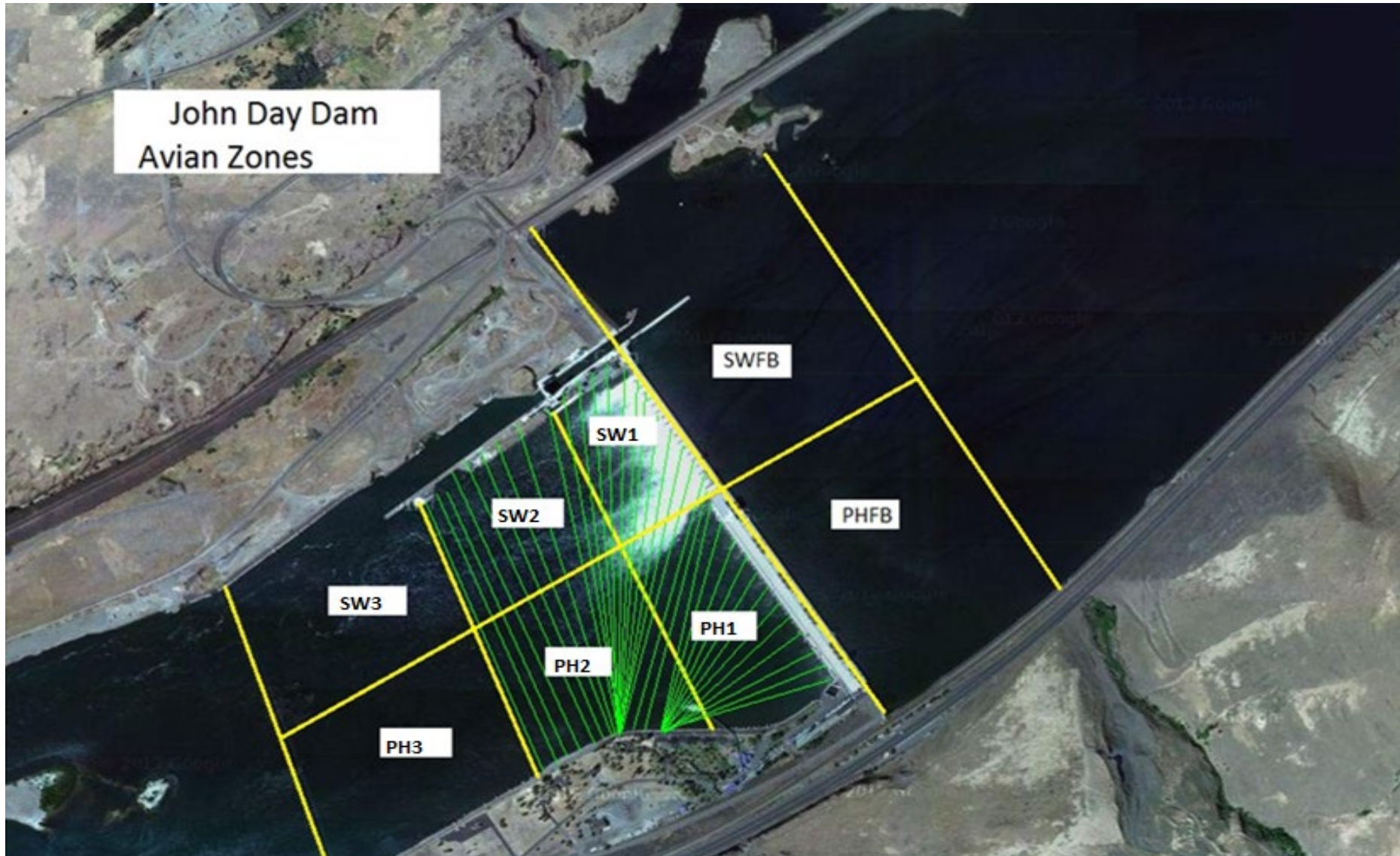
Average Weekly Velocity (ft/sec)	2.53
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JOHN DAY WEEKLY AVERAGES

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)	Spill Vol. (kcfs)	Spill %	# Spillbays
Sunday	9.0	8.8	1.3	8.8	1.5		1.8	0.0	0.0	0
Sunday	9.2	9.1	1.3	9.0	1.4		1.6	0.0	0.0	0
Monday	10.5	10.4	1.0	10.3	1.4		1.4	0.0	0.0	0
Monday	10.0	10.0	1.2	9.9	1.4		1.6	0.0	0.0	0
Tuesday	9.5	9.4	1.2	9.5	1.4		1.8	0.0	0.0	0
Tuesday	9.3	9.3	1.4	8.7	1.6		1.2	0.0	0.0	0
Wednesday	10.0	9.9	1.0	9.8	1.5		1.4	0.0	0.0	0
Wednesday	9.7	9.6	1.5	8.7	1.7		1.6	0.0	0.0	0
Thursday	10.1	10.0	1.2	9.1	1.5		1.4	0.0	0.0	0
Thursday	9.2	9.2	1.4	8.2	1.6		1.7	0.0	0.0	0
Friday	9.8	9.7	1.3	9.0	1.5		1.5	0.0	0.0	0
Friday	9.4	9.4	1.4	8.6	1.4		1.6	0.0	0.0	0
Saturday	9.3	9.2	1.5	8.5	1.5		1.8	0.0	0.0	0
Saturday	9.0	9.0	1.3	8.4	1.6		1.8	0.0	0.0	0
AVG:	9.6	9.5	1.3	9.0	1.5	N/A	1.6	0.0	0.0	0.0

	Temp (F)	Secchi (Ft)	Fallbacks	Average # of Pelicans on Island Per Day
Sunday	42.4	5.5	N/A	1
Monday	42.6	5.5	N/A	1
Tuesday	43.1	5.5	N/A	1
Wednesday	43.8	5.0	N/A	0
Thursday	43.8	5.0	N/A	0
Friday	44.4	5.5	N/A	0
Saturday	44.5	5.5	N/A	0
AVG	43.5	5.4	N/A	0

John Day Dam
Avian Zones



JDA Bird Counts: 3/20/22 to 3/26/22

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

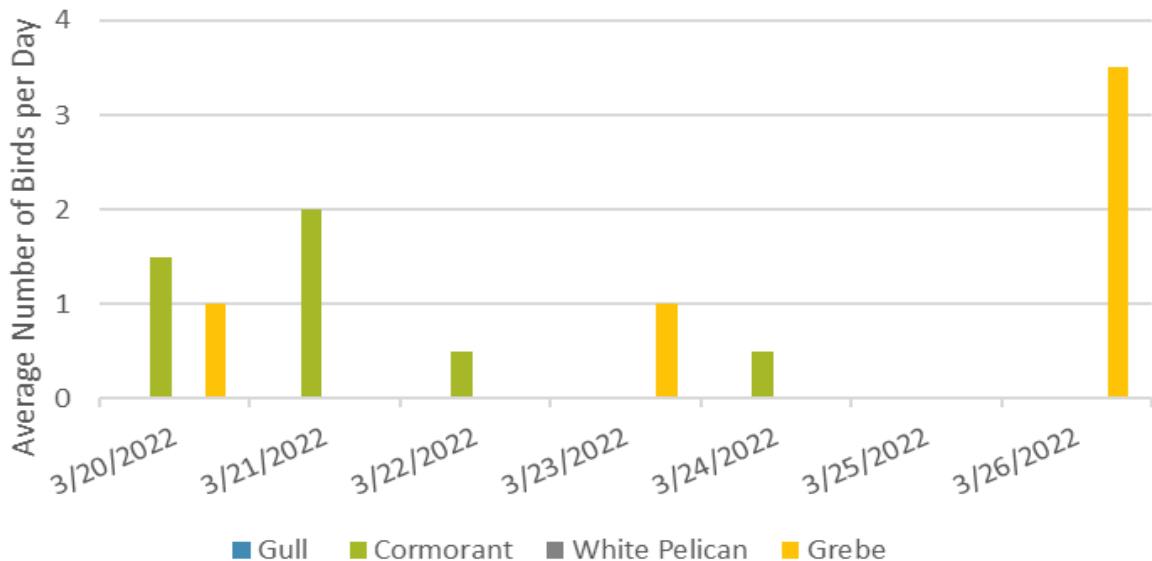
Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total	
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)		
20-Mar	PHFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3
20-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Mar	PH1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Mar	SW2	0	0	0	0	0	0	36	27	0	0	0	0	0	0	0	0	0	0	0	0	0	63
20-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0		1		2		32		0		0		0		0		1		0		35	
21-Mar	PHFB	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
21-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Mar	PH1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
21-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Mar	SW2	0	0	0	0	0	0	7	28	0	0	0	0	0	0	0	0	0	0	0	0	0	35
21-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0		0		2		26		0		0		0		0		0		0		28	
22-Mar	PHFB	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
22-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Mar	PH1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Mar	SW2	0	0	0	0	0	0	9	28	0	0	0	0	0	0	0	0	0	0	0	0	0	37
22-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0		0		1		24		0		0		0		0		0		0		25	
23-Mar	PHFB	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	2	0	0	0	0	0	26
23-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Mar	SW2	0	0	0	0	0	0	7	15	0	0	0	0	0	0	0	0	0	0	0	0	0	22
23-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0		0		0		23		0		0		0		0		1		0		24	

JDA Bird Counts: 3/24/22 to 3/26/22

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)	
24-Mar PHFB		0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
24-Mar SWFB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar PH1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar PH2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar PH3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar SW1		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24-Mar SW2		0	0	0	0	0	0	5	9	0	0	0	0	0	0	0	0	0	0	0	0	14
24-Mar SW3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0	0	0	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	10
25-Mar PHFB		0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
25-Mar SWFB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar PH1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar PH2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar PH3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar SW1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar SW2		0	0	0	0	0	0	1	24	0	0	0	0	0	0	0	0	0	0	0	0	25
25-Mar SW3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
26-Mar PHFB		0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	2	5	0	0	0	29
26-Mar SWFB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Mar PH1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Mar PH2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Mar PH3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Mar SW1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Mar SW2		0	0	0	0	0	0	7	33	0	0	0	0	0	0	0	0	0	0	0	0	40
26-Mar SW3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total/Survey		0	0	0	0	0	0	31	0	0	0	0	0	0	0	4	0	0	0	0	0	35
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	F	NF				
Weekly Total	0	1	9	340	0	0	0	0	0	0	0	0	0	0	11	0	181					
Avg/Survey	0	0	1	24	0	0	0	0	0	0	0	0	0	1	0	26						

Foraging Piscivorous Birds



Non-Foraging Piscivorous Birds

