

## FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 11/7/2020

Inspection Period: 11/1/2020 thru 11/7/2020



**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: 13			Temperature: 54.7 F	Secchi: 6.0 Ft.
<b>NORTH FISHWAY</b>							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	High setting	High setting is normal				
Count station differential	0	≤ 0.3'					
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	1.6			
<b>SOUTH FISHWAY</b>							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	Mid setting	Mid setting is normal				
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.)	8.0			
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.)	1.5			
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.3			
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.5			
<b>JUVENILE PASSAGE</b>							
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.6			
Submersible traveling screens	0	visual inspect	Last Visual Inspection 10/26 - 10/29		Next Visual Inspection 11/23 - 11/26		
Turbine trashrack drawdown	0	<1.5', wkly					
Vert barrier screen drawdown	0	<1.5', 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:**

Currently in bypass as sampling ended 15 September.

### **Adult Ladder Operations:**

JD South Adult Fishway is operating within criteria.

JD North Adult Fishway is operating within criteria.

### **Project Operations:**

Current outages: MU1, MU2, MU3, MU4, MU6, MU7, MU9, MU12.

Tailwater Average Weekly TDG-99.6

### **Maintenance:**

JD North Fishway's pump 4 has been pulled for maintenance. - JD Maintenance continue repairs of AWS fish pump 4. RTS has yet TBD.

Calibration - All gauges within the 0.3' criteria.

### **Bird Data:**

Few foraging gulls this week, decreasing number of foraging pelicans (see 'Bird Count' tab for details).

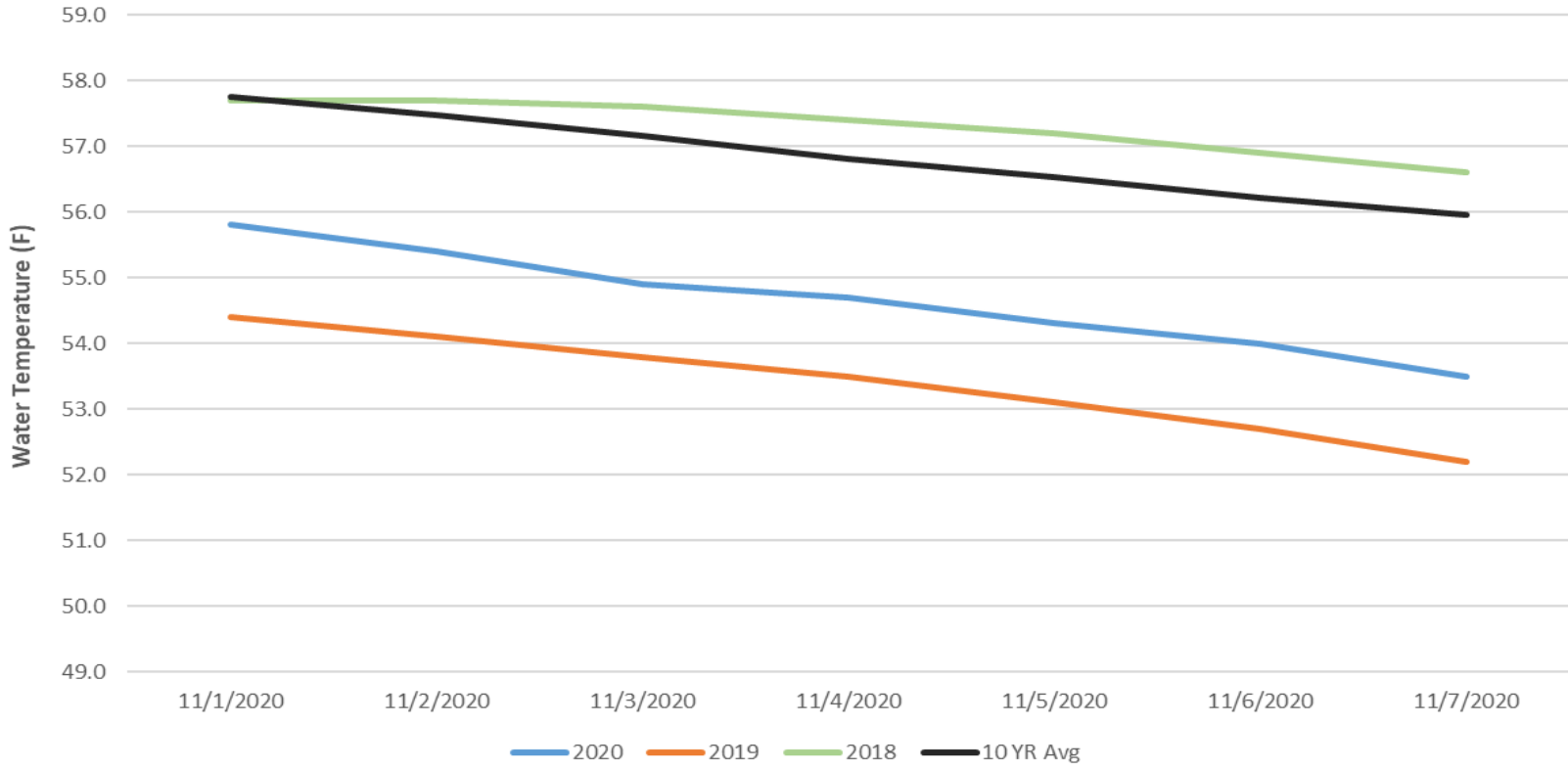
1 of 125 avian lines down, will need to be replaced

Pelicans on Preacher's Island: averaged 1 per day

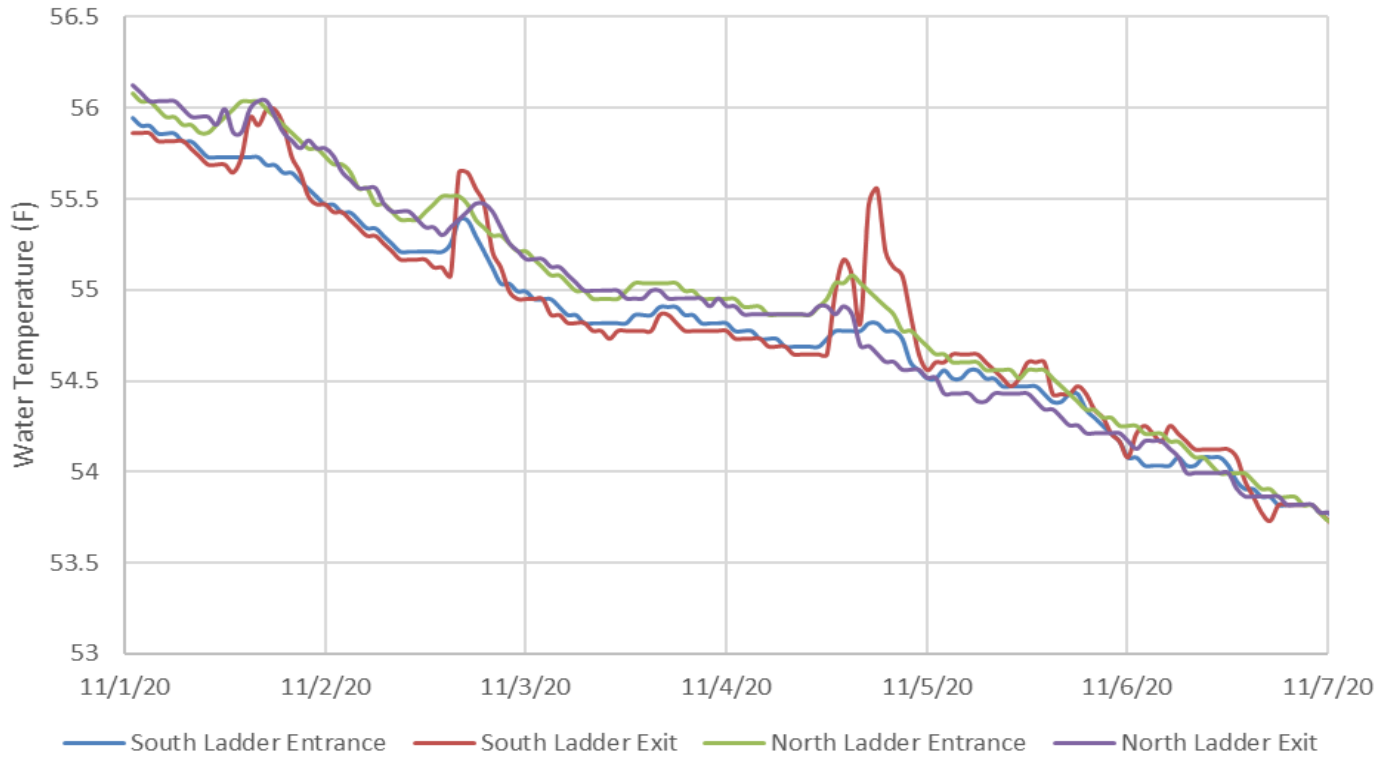
### **Research:**

Approved by: Brett Call, OPM

### John Day Dam Water Temperatures (F)



JDA Fish Ladder Water Temperatures (11/1/20 - 11/7/20)



# 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)
11/4/2020	Unit 4	2.58	0,68,68	160.4
11/4/2020	Unit 12	2.53	0,68,68	160.4
11/6/2020	Unit 4	2.62	0,68,68	159.9
11/6/2020	Unit 12	2.59	0,68,68	159.9
11/7/2020	Unit 4	2.60	0,68,68	159.7
11/7/2020	Unit 12	2.68	0,68,68	159.7

Average Weekly Velocity (ft/sec)	2.60
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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	9.2	9.4	1.5	8.1	1.5	4.7	1.5	1.6	1.2	1
Sunday	9.0	9.3	1.5	8.0	1.5	4.6	1.6	1.6	2.0	1
Monday	9.4	9.6	1.3	8.0	1.5	4.6	1.6	1.6	1.4	1
Monday	9.3	9.5	1.4	8.2	1.5	4.5	1.6	1.6	1.3	1
Tuesday	9.6	9.8	1.4	8.1	1.6	4.7	1.6	1.6	1.2	1
Tuesday	9.6	9.8	1.4	8.0	1.6	4.5	1.5	1.6	1.2	1
Wednesday	9.6	9.8	1.5	8.1	1.6	4.5	1.5	1.6	1.2	1
Wednesday	9.6	9.8	1.4	8.0	1.5	4.6	1.4	1.6	1.2	1
Thursday										
Thursday	9.7	9.9	1.4	8.0	1.5	4.6	1.5	1.6	1.1	1
Friday	9.0	9.2	1.4	8.0	1.5	4.6	1.5	1.6	1.2	1
Friday	9.1	9.3	1.5	8.0	1.6	4.5	1.2	1.6	1.4	1
Saturday	8.9	9.1	1.4	8.0	1.6	4.6	1.6	1.6	1.1	1
Saturday	8.4	8.6	1.3	8.0	1.7	4.6	1.7	1.6	1.3	1
<b>AVG:</b>	<b>9.3</b>	<b>9.5</b>	<b>1.4</b>	<b>8.0</b>	<b>1.6</b>	<b>4.6</b>	<b>1.5</b>	<b>1.6</b>	<b>1.3</b>	<b>1.0</b>

	Temp (F)	Secchi (Ft)	Fallbacks	Pelicans on Island
Sunday	55.8	6.0	N/A	1
Monday	55.4	6.0	N/A	1
Tuesday	54.9	6.0	N/A	0
Wednesday	54.7	6.0	N/A	1
Thursday	54.3	6.0	N/A	1
Friday	54.0	6.0	N/A	1
Saturday	53.5	6.0	N/A	1
<b>AVG</b>	<b>54.7</b>	<b>6.0</b>	<b>N/A</b>	<b>1</b>

John Day Dam  
Avian Zones



**JDA Bird Counts: 11/1/20 to 11/7/20**

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)	
1-Nov	PHFB	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	121	48	0	0	194
1-Nov	SWFB	0	0	257	347	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	604
1-Nov	PH1	0	56	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
1-Nov	PH2	5	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
1-Nov	PH3	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
1-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Nov	SW2	0	0	0	0	0	0	29	41	0	0	0	0	0	0	0	0	0	0	0	0	70
1-Nov	SW3	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
<b>Avg/Survey</b>		<b>59</b>		<b>302</b>		<b>3</b>		<b>48</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>85</b>		<b>0</b>		<b>991</b>
2-Nov	PHFB	0	0	0	0	0	0	24	16	0	0	0	0	0	0	0	0	0	22	0	0	62
2-Nov	SWFB	0	0	185	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	397
2-Nov	PH1	0	11	21	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	77
2-Nov	PH2	16	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
2-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Nov	SW2	0	0	0	0	0	0	7	11	0	0	0	0	0	0	0	0	0	0	0	0	18
2-Nov	SW3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Avg/Survey</b>		<b>26</b>		<b>209</b>		<b>0</b>		<b>29</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>34</b>		<b>0</b>		<b>595</b>
3-Nov	PHFB	0	0	0	0	0	0	21	20	0	0	0	0	0	0	0	0	88	81	0	0	210
3-Nov	SWFB	0	0	311	271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	582
3-Nov	PH1	9	10	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
3-Nov	PH2	22	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
3-Nov	PH3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
3-Nov	SW1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3-Nov	SW2	0	0	0	0	0	0	7	22	0	0	0	0	0	0	0	0	0	0	0	0	29
3-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Avg/Survey</b>		<b>35</b>		<b>291</b>		<b>3</b>		<b>35</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>85</b>		<b>0</b>		<b>895</b>
4-Nov	PHFB	0	0	0	241	0	0	22	24	0	0	0	0	0	0	0	0	88	0	0	0	375
4-Nov	SWFB	0	0	327	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	628
4-Nov	PH1	31	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
4-Nov	PH2	11	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
4-Nov	PH3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
4-Nov	SW1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4-Nov	SW2	0	0	0	0	0	0	18	10	0	0	0	0	0	0	0	0	0	0	0	0	28
4-Nov	SW3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Avg/Survey</b>		<b>102</b>		<b>435</b>		<b>2</b>		<b>37</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>44</b>		<b>0</b>		<b>1238</b>



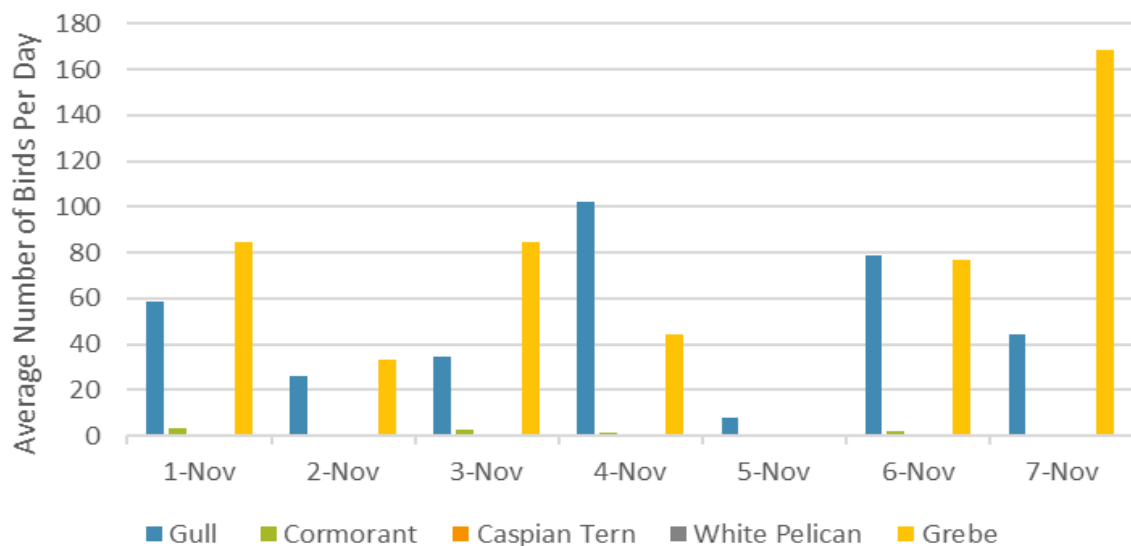
**JDA Bird Counts: 11/1/20 to 11/7/20**

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)	
5-Nov	PHFB	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	22	53
5-Nov	SWFB	0	0	0	418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	418
5-Nov	PH1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5-Nov	PH2	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
5-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Nov	SW2	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
5-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Avg/Survey</b>		<b>8</b>		<b>209</b>		<b>1</b>		<b>19</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>11</b>		<b>495</b>		
6-Nov	PHFB	0	0	64	0	0	0	0	59	0	0	0	0	0	0	0	0	153	0	0	0	276
6-Nov	SWFB	0	0	377	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	620
6-Nov	PH1	0	121	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
6-Nov	PH2	6	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
6-Nov	PH3	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6
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	2	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	24
6-Nov	SW3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Avg/Survey</b>		<b>79</b>		<b>342</b>		<b>2</b>		<b>41</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>77</b>		<b>0</b>		<b>1081</b>
7-Nov	PHFB	0	0	0	231	0	0	0	56	0	0	0	0	0	0	0	175	162	0	0	0	624
7-Nov	SWFB	0	0	485	353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	838
7-Nov	PH1	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
7-Nov	PH2	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
7-Nov	PH3	12	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
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	17	19	0	0	0	0	0	0	0	0	0	0	0	0	36
7-Nov	SW3	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<b>Avg/Survey</b>		<b>45</b>		<b>535</b>		<b>0</b>		<b>46</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>169</b>		<b>0</b>		<b>1587</b>

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					
<b>Weekly Total</b>	<b>705</b>	<b>4644</b>	<b>19</b>	<b>508</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>983</b>	<b>22</b>	<b>6882</b>										
<b>Avg/Survey</b>	<b>50</b>	<b>332</b>	<b>1</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70</b>	<b>2</b>	<b>492</b>										

### Foraging Piscivorous Birds



### Non-Foraging Piscivorous Birds

