

## FISHWAY STATUS REPORT - JOHN DAY DAM

Date: 11/14/2020

Inspection Period: 11/8/2020 thru 11/14/2020



**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.

<b>John Day Dam</b>	Inspection OOC	Criteria Limit	Total Number of Inspections: 14				Temperature:	52.3 F
							Secchi:	6.0 Ft.

### NORTH FISHWAY

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.)	1.5					

### SOUTH FISHWAY

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.)	1.3					
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	8.0					
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.68					
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.5					
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	9.5					
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	9.7					

### JUVENILE PASSAGE

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 %	1.1			
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-99.9

### **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:**

Increasing foraging and non foraging gulls this week. (see 'Bird Count' tab for details).

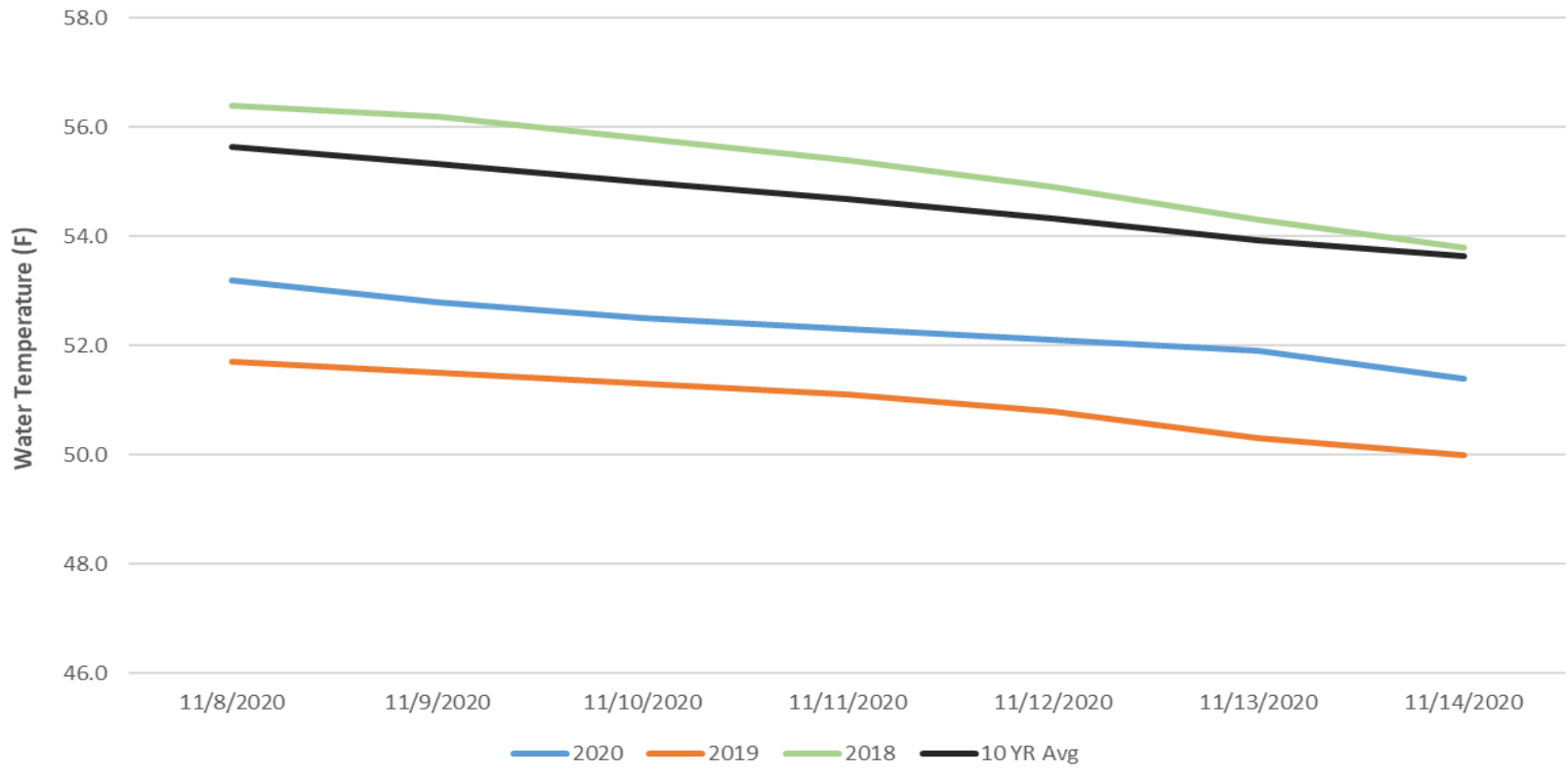
1 of 125 avian lines down, will need to be replaced

Pelicans on Preacher's Island: averaged 1 per day

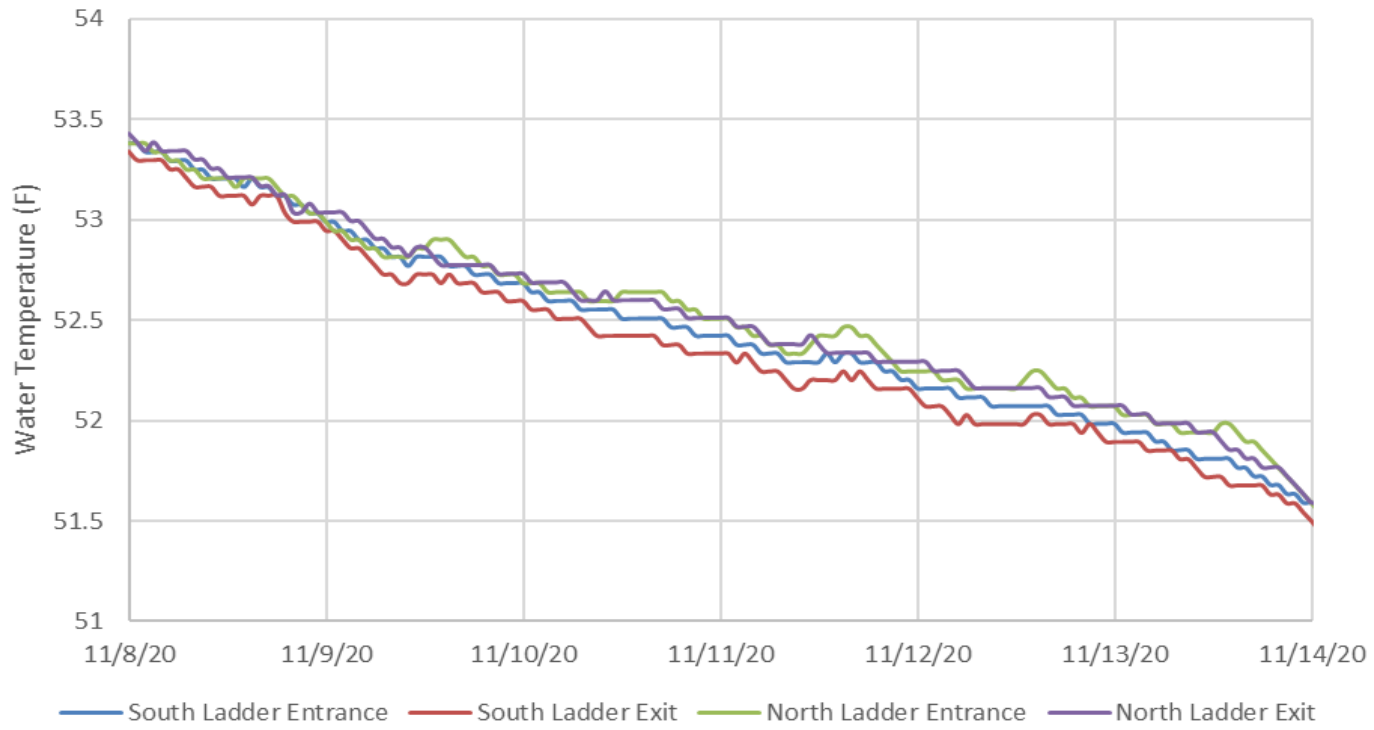
### **Research:**

Approved by: Brett Call, OPM

### John Day Dam Water Temperatures (F)



JDA Fish Ladder Water Temperatures (11/7/20 - 11/14/20)



# 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)
11/9/2020	Unit 4	2.70	0,68,68	160.5
11/9/2020	Unit 12	2.83	0,68,68	160.5
11/13/2020	Unit 4	2.51	0,68,68	160.5
11/13/2020	Unit 12	2.63	0,68,68	160.5
11/14/2020	Unit 4	2.66	0,68,68	160.6
11/14/2020	Unit 12	2.76	0,68,68	160.6

Average Weekly Velocity (ft/sec)	2.68
----------------------------------	------

## 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	8.6	8.8	1.4	8.0	1.5	4.7	1.6	1.6	1.2	1
Sunday	8.6	8.8	1.4	8.0	1.4	4.5	1.6	1.6	1.2	1
Monday	9.7	9.9	1.3	8.0	1.5	4.6	1.5	1.6	1.1	1
Monday	9.9	10.1	1.2	8.0	1.5	4.6	1.3	1.6	1.1	1
Tuesday	9.6	9.8	1.3	8.0	1.5	4.6	1.4	1.6	1.1	1
Tuesday	9.2	9.4	1.5	8.0	1.6	4.5	1.3	1.6	1.2	1
Wednesday	9.6	9.8	1.3	8.0	1.4	4.6	1.3	1.6	1.1	1
Wednesday	9.2	9.4	1.3	8.2	1.4	4.6	1.5	1.6	1.1	1
Thursday	9.9	10.1	1.3	8.0	1.5	4.5	1.3	1.6	1.1	1
Thursday	9.7	9.9	1.3	8.0	1.5	4.6	1.5	1.6	1.1	1
Friday	9.7	9.9	1.4	8.1	1.5	4.7	1.5	1.6	1.1	1
Friday	9.7	9.8	1.4	8.0	1.4	4.6	1.5	1.6	1.1	1
Saturday	9.8	10.0	1.3	8.0	1.4	4.6	1.6	1.6	1.1	1
Saturday	9.7	9.9	1.3	8.0	1.4	4.7	1.5	1.6	1.0	1
<b>AVG:</b>	<b>9.5</b>	<b>9.7</b>	<b>1.3</b>	<b>8.0</b>	<b>1.5</b>	<b>4.6</b>	<b>1.5</b>	<b>1.6</b>	<b>1.1</b>	<b>1.0</b>

	Temp (F)	Secchi (Ft)	Fallbacks	Pelicans on Island
Sunday	53.2	6.0	N/A	0
Monday	52.8	6.0	N/A	0
Tuesday	52.5	6.0	N/A	0
Wednesday	52.3	6.0	N/A	0
Thursday	52.1	6.0	N/A	0
Friday	51.9	6.0	N/A	0
Saturday	51.4	6.0	N/A	1

<b>AVG</b>	<b>52.3</b>	<b>6.0</b>	<b>N/A</b>	<b>0</b>
------------	-------------	------------	------------	----------

John Day Dam  
Avian Zones



**JDA Bird Counts: 11/8/20 to 11/14/20**

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)	
8-Nov	PHFB	0	0	169	119	0	0	11	25	0	0	0	0	0	0	0	0	94	30	0	0	448
8-Nov	SWFB	0	0	462	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	830
8-Nov	PH1	0	77	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
8-Nov	PH2	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
8-Nov	PH3	24	41	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
8-Nov	SW1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8-Nov	SW2	2	9	0	0	0	0	16	33	0	0	0	0	0	0	0	0	0	0	0	0	60
8-Nov	SW3	4	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
<b>Avg/Survey</b>		<b>98</b>		<b>576</b>		<b>3</b>		<b>43</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>62</b>		<b>0</b>		<b>1561</b>
9-Nov	PHFB	0	0	0	80	0	0	21	45	0	0	0	0	0	0	0	0	27	0	0	0	173
9-Nov	SWFB	0	0	781	485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1266
9-Nov	PH1	10	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
9-Nov	PH2	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
9-Nov	PH3	13	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
9-Nov	SW1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9-Nov	SW2	7	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	15
9-Nov	SW3	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
<b>Avg/Survey</b>		<b>63</b>		<b>673</b>		<b>0</b>		<b>37</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>14</b>		<b>0</b>		<b>1572</b>
10-Nov	PHFB	0	0	75	212	0	0	11	21	0	0	0	0	0	0	0	0	27	74	0	0	420
10-Nov	SWFB	0	0	488	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	724
10-Nov	PH1	0	90	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
10-Nov	PH2	38	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
10-Nov	PH3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10-Nov	SW1	0	7	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
10-Nov	SW2	0	6	0	0	0	0	20	22	0	0	0	0	0	0	0	0	0	0	0	0	48
10-Nov	SW3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Avg/Survey</b>		<b>81</b>		<b>506</b>		<b>8</b>		<b>37</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>51</b>		<b>0</b>		<b>1363</b>
11-Nov	PHFB	0	0	11	289	0	0	28	0	0	0	0	0	0	0	0	0	77	75	0	0	480
11-Nov	SWFB	0	0	341	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	578
11-Nov	PH1	17	25	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
11-Nov	PH2	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
11-Nov	PH3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
11-Nov	SW1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
11-Nov	SW2	6	0	0	0	0	0	15	59	0	0	0	0	0	0	0	0	0	0	0	0	80
11-Nov	SW3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Avg/Survey</b>		<b>40</b>		<b>439</b>		<b>2</b>		<b>51</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>76</b>		<b>0</b>		<b>1215</b>



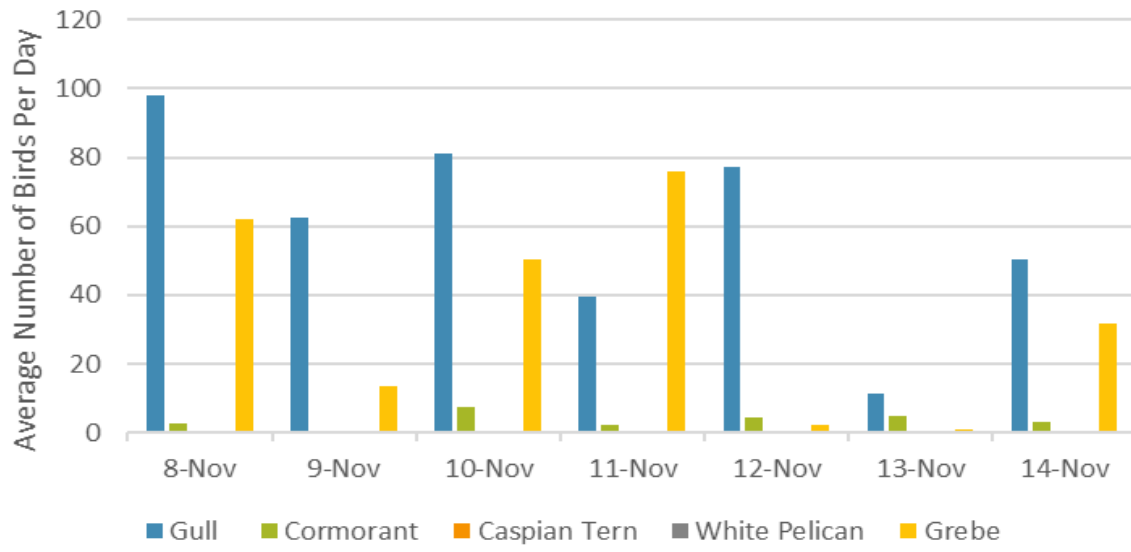
**JDA Bird Counts: 11/8/20 to 11/14/20**

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)	
12-Nov	PHFB	0	0	0	98	0	0	14	15	0	0	0	0	0	0	0	0	0	4	0	0	131
12-Nov	SWFB	0	0	451	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	690
12-Nov	PH1	11	97	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	117	
12-Nov	PH2	33	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
12-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-Nov	SW1	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	22	43	0	0	0	0	0	0	0	0	0	0	0	65	
12-Nov	SW3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
<b>Avg/Survey</b>		<b>77</b>		<b>394</b>		<b>5</b>		<b>47</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>2</b>		<b>0</b>	<b>1049</b>	
13-Nov	PHFB	0	0	338	179	0	0	14	0	0	0	0	0	0	0	0	1	1	0	0	533	
13-Nov	SWFB	0	0	72	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	
13-Nov	PH1	11	4	0	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
13-Nov	PH2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
13-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13-Nov	SW1	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	31	15	0	0	0	0	0	0	0	0	0	0	0	46	
13-Nov	SW3	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>12</b>		<b>401</b>		<b>5</b>		<b>30</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>0</b>	<b>896</b>	
14-Nov	PHFB	0	0	387	0	0	0	2	56	0	0	0	0	0	0	0	63	0	0	0	508	
14-Nov	SWFB	0	0	342	411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	753	
14-Nov	PH1	5	67	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	76	
14-Nov	PH2	10	12	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
14-Nov	PH3	7	0	0	51	0	0	0	0	0	0	0	0	1	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	
14-Nov	SW2	0	0	0	0	0	0	47	23	0	0	0	0	0	0	0	0	0	0	0	70	
14-Nov	SW3	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>51</b>		<b>596</b>		<b>3</b>		<b>64</b>		<b>0</b>		<b>0</b>		<b>1</b>		<b>0</b>		<b>32</b>		<b>0</b>	<b>1490</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>840</b>	<b>7166</b>	<b>49</b>	<b>617</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>473</b>	<b>0</b>	<b>9146</b>										
<b>Avg/Survey</b>	<b>60</b>	<b>512</b>	<b>4</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>653</b>										

### Foraging Piscivorous Birds



### Non-Foraging Piscivorous Birds

