

# FISHWAY STATUS REPORT

**Date:** 6/20/2020  
**Inspection Period:** 6/14/2020 thru 6/20/2020

## JOHN DAY DAM



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: 59.2 F
				Secchi: 4.6 Ft.
<b>NORTH FISHWAY</b>			NFW rts on 1/23	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	High setting		
Count station differential	0	≤ 0.3'		
Weir crest depth (DS gauge)	0	1.0' ± 0.1'		
Entrance differential	0	1.0' - 2.0'	AVG 1.5	
<b>SOUTH FISHWAY</b>			SFW rts on 2/28	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS	
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 1.4	
Entrance weir SE1	1	depth (≥ 8')	AVG 8.3	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.47	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6	
Entrance weir NE1	0	depth (≥ 8')	AVG 11.3	
Entrance weir NE2	0	depth (≥ 8')	AVG 11.3	
<b>JUVENILE PASSAGE</b>				
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6	JBS rts 3/9/20
Submersible traveling screens	0	visual inspect		
Turbine trashrack drawdown	0	<1.5', wkly		
Vert barrier screen drawdown	0	<1.5', wkly		
Spill volume	0	per FPP		
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

## SMOLT MONITORING FACILITY

### Operation:

Condition sampling started 4/01/2020 and with COVID-19 restrictions, Oregon and Washington stay at home orders, and USACE limited staffing levels, the SMF will continue limited conditioning sampling (every other day) until further notice. MU16 forced OOS at 1640 on 6/5, oil sheen seen in "c" slot. STS replaced and MU16 RTS at 0910 on 6/6/2020.

### Maintenance:

SMF SCADA update completed 17 March 2020. JD Electricians are working on SCADA programming and controls.

## ADULT FISHWAYS & TW AVIAN GRID

### Birds:

Steady number of gulls this week. See Bird Count tab for details.

All 125 avian lines in place without any deficiencies.

### Operations:

JD South Adult Fishway is operating within criteria.

JD North Adult Fishway is operating within criteria.

JD Maintenance continue repairs of AWS fish pump 4. RTS has yet TBD.

MU 15 OOS 06/01/2020 for Annual/Actuator Tank. ETR 06/18/2020.

### Maintenance:

JD North Fishway's pump 4 has been pulled for maintenance.

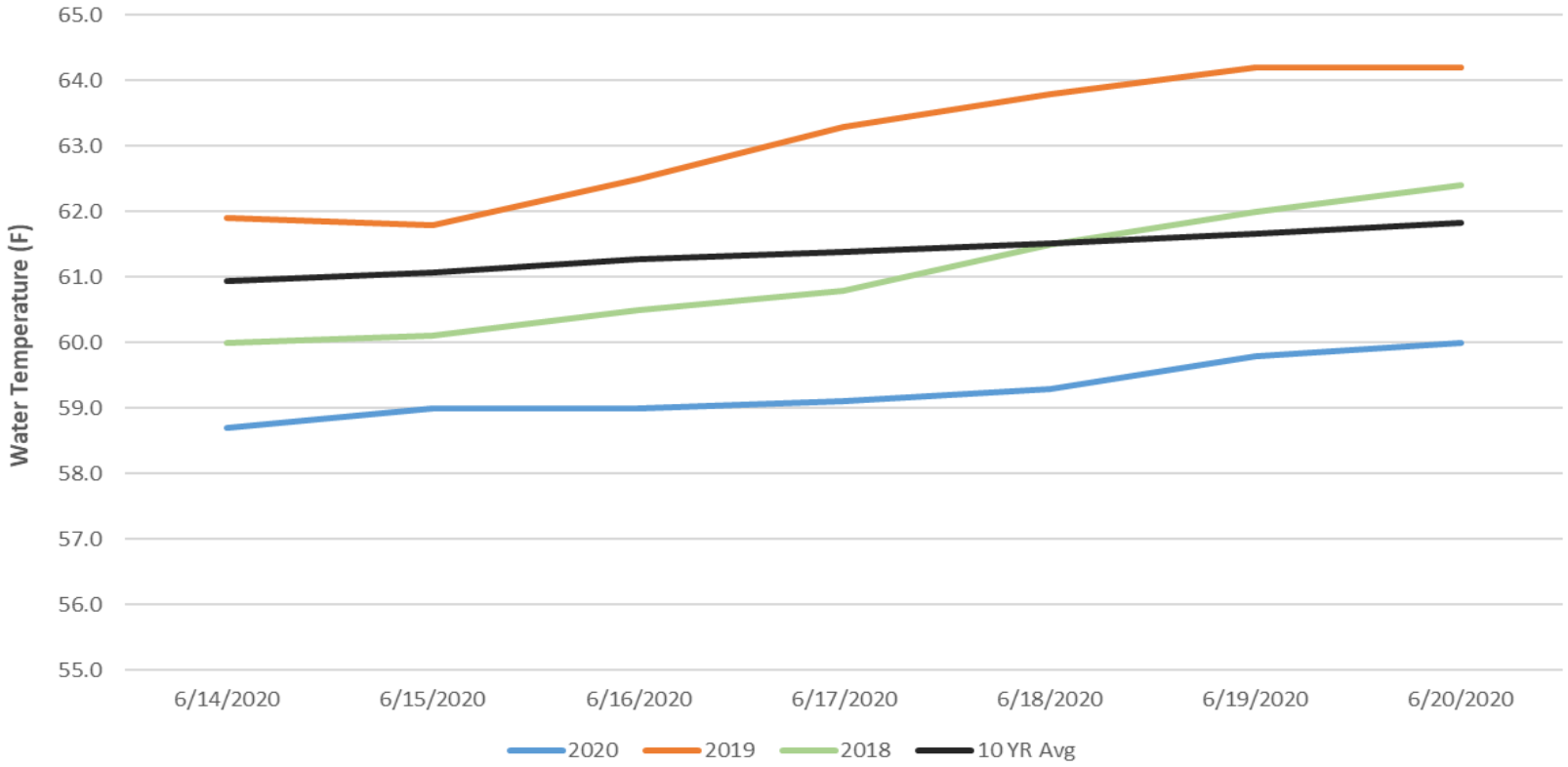
Calibration: All gauges/ sensors are within the criteria of 0.3' .

### Research:

CRITFC genetics study at SMF

Approved by: Ron Twiner, Acting OPM

### John Day Dam Water Temperatures (F)



## JDA Collection Channel Velocity

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

Date: 06/17/20 By: MDL			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:19	139	2.40
4 - 6	3:39	219	2.25
6 - 8	4:53	293	2.43
8 - 10	6:18	378	2.12
10 - 12	7:46	466	2.05
12 - 14	9:09	549	2.17
14 - 16	10:23	623	2.43
16 - 18	11:32	692	2.61
<b>AVERAGE VELOCITY:</b>			<b>2.36</b>
Bay 19 TW Level:			163.3
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

Date: 06/19/20 By: MDL			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:06	66	2.73
2 - 4	2:17	137	2.54
4 - 6	3:36	216	2.28
6 - 8	4:53	293	2.34
8 - 10	6:10	370	2.34
10 - 12	7:16	436	2.73
12 - 14	8:34	514	2.31
14 - 16	9:48	588	2.43
16 - 18	10:59	659	2.54
<b>AVERAGE VELOCITY:</b>			<b>2.47</b>
Bay 19 TW Level:			162.9
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

Date: 06/20/20 By: LR			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:03	63	2.86
2 - 4	2:17	137	2.43
4 - 6	3:37	217	2.25
6 - 8	4:49	289	2.50
8 - 10	5:59	359	2.57
10 - 12	7:10	430	2.54
12 - 14	8:22	502	2.50
14 - 16	9:28	568	2.73
16 - 18	10:29	629	2.95
<b>AVERAGE VELOCITY:</b>			<b>2.59</b>
Bay 19 TW Level:			163.0
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

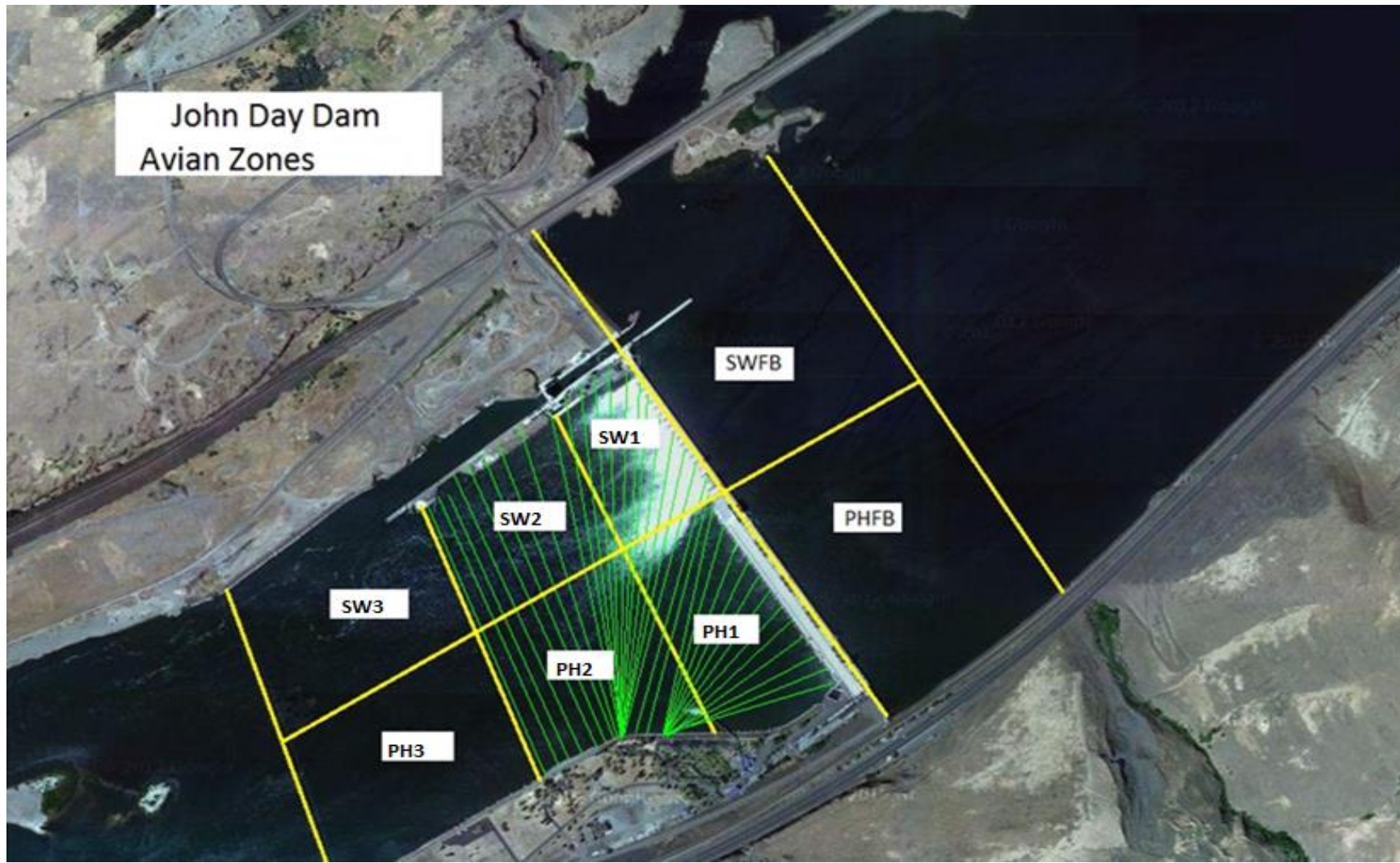
<b>WEEKLY AVERAGE</b>	<b>2.47</b>
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## John Day Weekly Averages

	Temp (F)		Secchi (Ft)		Fallbacks
Sun	58.6		4.0		18
Mon	58.8		4.0		
Tue	59.0		4.5		8
Wed	59.1		5.0		
Thur	59.3		5.0		5
Fri	59.8		5.0		
Sat	60.0		5.0		26
<b>AVG</b>	<b>59.2</b>	<b>AVG</b>	<b>4.6</b>	<b>AVG/Sample</b>	<b>14</b>
				<b>MAX</b>	<b>26</b>
				<b>MIN</b>	<b>5</b>

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)
Sun	11.7	11.7	1.4	8.4	1.4	4.6	1.7
Sun	11.8	11.8	1.4	8.2	1.6	4.6	1.3
Mon	12.4	12.4	1.6	8.0	1.6	4.6	1.6
Mon	11.9	11.9	1.5	8.0	1.5	4.7	1.2
Tues	11.9	11.9	1.5	8.0	1.4	4.6	1.5
Tues	11.7	11.7	1.4	8.0	1.5	4.6	1.6
Wed	12.2	12.2	1.4	8.2	1.6	4.6	1.7
Wed	12.2	12.2	1.3	8.0	1.5	4.6	1.6
Thur	12.2	12.2	1.5	7.9	1.5	4.7	1.6
Thur	12.2	12.2	1.4	8.7	1.6	4.6	1.6
Fri	9.1	9.3	1.5	8.2	1.6	4.6	1.7
Fri	9.8	10.0	1.4	8.8	1.6	4.5	1.5
Sat	9.5	9.7	1.3	8.9	1.4	4.6	1.9
Sat	9.2	9.4	1.5	8.4	1.5	4.6	1.9
<b>AVG:</b>	<b>11.3</b>	<b>11.3</b>	<b>1.4</b>	<b>8.3</b>	<b>1.5</b>	<b>4.6</b>	<b>1.6</b>

John Day Dam  
Avian Zones



**JDA Bird Counts: 6/14/20 to 6/20/20**

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)	
14-Jun	PHFB	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	5	0	7	28
14-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jun	PH1	10	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	15
14-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jun	SW2	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
14-Jun	SW3	30	15	0	0	0	0	0	0	0	0	0	0	18	20	0	0	0	0	0	0	83
<b>Avg/Survey</b>		<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>10</b>	<b>4</b>	<b>139</b>				
15-Jun	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	12	20	0	0	34
15-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
15-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	12	15	0	0	0	0	0	0	27
15-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	10	10	0	0	0	0	0	0	20
<b>Avg/Survey</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>83</b>				
16-Jun	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	25	10	0	0	38
16-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	10
16-Jun	PH3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4
16-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
16-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	14	9	0	0	0	0	0	0	23
16-Jun	SW3	0	11	0	0	0	0	0	0	0	0	0	0	31	6	11	0	0	0	0	0	59
<b>Avg/Survey</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>6</b>	<b>18</b>	<b>0</b>	<b>156</b>				
17-Jun	PHFB	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	20	25	0	0	78
17-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Jun	PH1	6	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	18
17-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	8	15	0	0	0	0	0	0	23
17-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	7
17-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	0	11	3	0	0	0	0	0	0	14
17-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	0	63	2	0	0	0	0	0	0	65
<b>Avg/Survey</b>		<b>3</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>205</b>				

**JDA Bird Counts: 6/14/20 to 6/20/20**

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)	
18-Jun	PHFB	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	23	21	0	0	53	
18-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
18-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	7	17	0	0	0	0	0	0	24	
18-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	14	1	0	0	0	0	0	0	15	
18-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	13	15	0	0	0	0	0	0	28	
18-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	18	15	0	0	0	0	0	0	33	
<b>Avg/Survey</b>		<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158</b>	
19-Jun	PHFB	0	0	5	23	0	0	0	0	0	0	0	0	0	1	0	19	21	0	0	69	
19-Jun	SWFB	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
19-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	5	23	0	0	0	0	0	0	28	
19-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	10	7	0	0	0	0	0	0	17	
19-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	
19-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19-Jun	SW2	0	0	0	0	0	0	0	0	0	0	0	17	11	0	0	0	0	0	0	28	
19-Jun	SW3	1	0	0	0	0	0	0	0	0	0	0	10	2	0	0	0	0	0	0	13	
<b>Avg/Survey</b>		<b>1</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164</b>		
20-Jun	PHFB	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	27	39	0	0	72	
20-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-Jun	PH1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
20-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	33	
20-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-Jun	SW2	0	21	0	0	0	0	0	0	0	0	0	2	32	0	0	0	0	0	0	55	
20-Jun	SW3	0	0	0	0	0	0	0	0	0	0	0	35	15	0	0	0	0	0	0	50	
<b>Avg/Survey</b>		<b>14</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>216</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>117</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>625</b>	<b>13</b>	<b>282</b>	<b>7</b>	<b>1121</b>						
<b>Avg/Survey</b>	<b>8</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>80</b>						