

FISHWAY STATUS REPORT

Date: 6/27/2020
Inspection Period: 6/21/2020 thru 6/27/2020

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: 61.6 F
				Secchi: 5.1 Ft.
NORTH FISHWAY			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	
SOUTH FISHWAY			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 9.2	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.62	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.7	
Entrance weir NE1	0	depth (≥ 8')	AVG 9.2	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.5	
JUVENILE PASSAGE				
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.

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.

MU5 OOS for 5 year annual maintenance

Orifice 16b OOS and not able to cycle 3 times per day per FPP. Debris load is low and shouldn't pose a problem. RTS TBD

Maintenance:

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

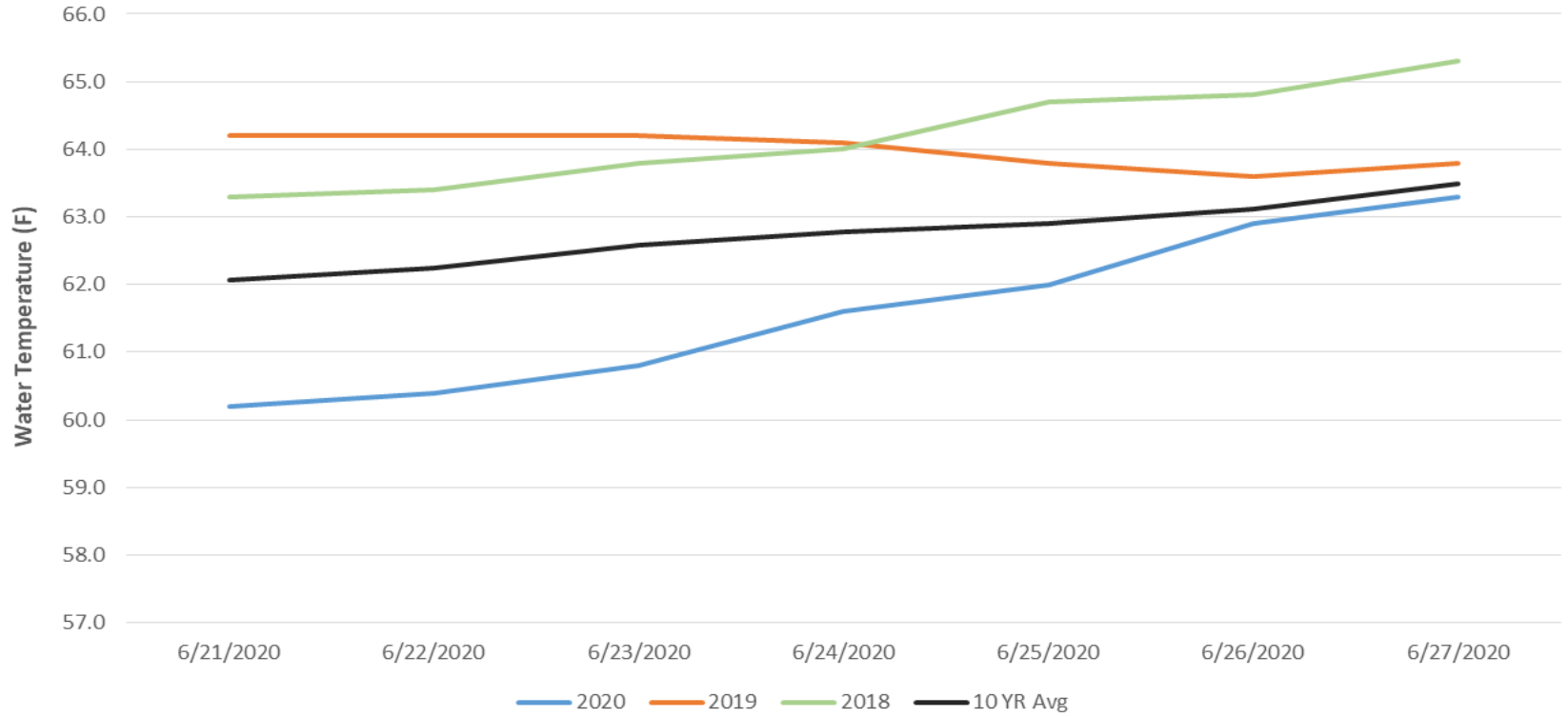
Calibration: All gauges/ sensors are within the criteria of 0.3' .

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: 06/25/20			
By: EGG			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:00	60	3.00
2 - 4	1:51	111	3.53
4 - 6	3:01	181	2.57
6 - 8	4:04	244	2.86
8 - 10	5:15	315	2.54
10 - 12	6:15	375	3.00
12 - 14	7:12	432	3.16
14 - 16	8:19	499	2.69
16 - 18	9:20	560	2.95
AVERAGE VELOCITY:			2.92
Bay 19 TW Level:			163.8
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

Date: 06/26/20			
By: KRM			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:02	62	2.90
2 - 4	2:03	123	2.95
4 - 6	3:17	197	2.43
6 - 8	4:32	272	2.40
8 - 10	5:43	343	2.54
10 - 12	6:52	412	2.61
12 - 14	8:09	489	2.34
14 - 16	9:21	561	2.50
16 - 18	10:26	626	2.77
AVERAGE VELOCITY:			2.60
Bay 19 TW Level:			163.4
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

Date: 06/27/20			
By: KRM			
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:20	80	2.25
2 - 4	2:34	154	2.43
4 - 6	3:55	235	2.22
6 - 8	5:14	314	2.28
8 - 10	6:32	392	2.31
10 - 12	7:53	473	2.22
12 - 14	9:12	552	2.28
14 - 16	10:28	628	2.37
16 - 18	11:35	695	2.69
AVERAGE VELOCITY:			2.34
Bay 19 TW Level:			164.0
Turbine 1 RPM:			0
Turbine 2 RPM:			68
Turbine 3 RPM:			68

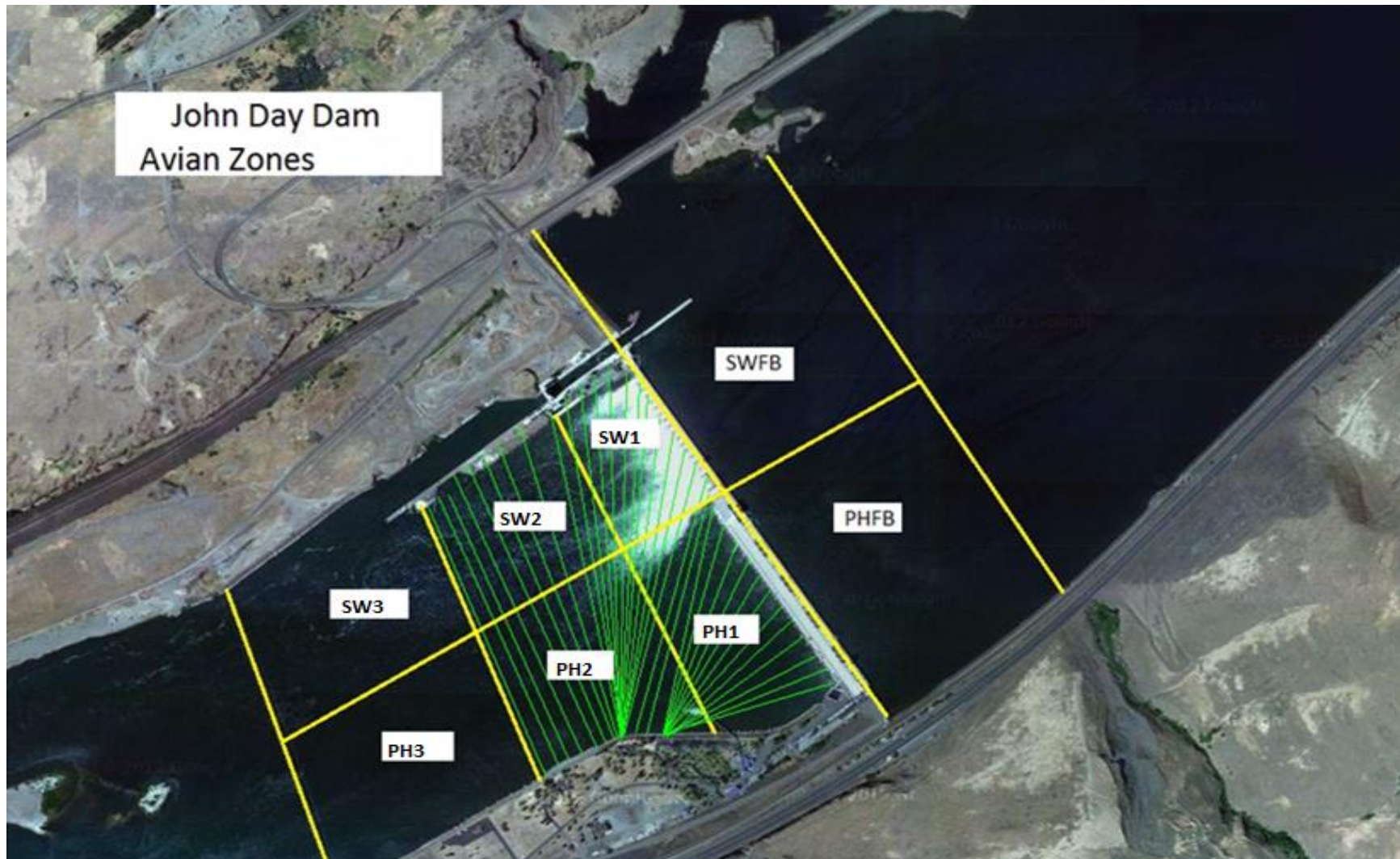
WEEKLY AVERAGE	2.62
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John Day Weekly Averages

	Temp (F)		Secchi (Ft)		Fallbacks
Sun	60.2		5.5		
Mon	60.4		5.5		7
Tue	60.8		5.0		
Wed	61.6		4.5		18
Thur	62.0		5.0		
Fri	62.9		5.0		22
Sat	63.3		5.0		
AVG	61.6	AVG	5.1	AVG/Sample	16
				MAX	22
				MIN	7

	NE1 (Ft)	NE2 (Ft)	S.Ent (Ft)	SE1 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Bay19 (Ft)
Sun	8.4	8.6	1.6	7.5	1.6	4.5	2.0
Sun	8.7	8.9	1.5	8.7	1.4	4.5	1.9
Mon	9.2	9.4	1.3	9.6	1.4	4.6	1.8
Mon	9.1	9.3	1.5	9.7	1.6	4.7	1.9
Tues	9.4	9.4	1.3	9.8	1.5	4.6	1.6
Tues	9.7	9.7	1.3	9.7	1.5	4.6	1.6
Wed	9.5	9.5	1.4	9.4	1.6	4.7	1.8
Wed	9.5	9.5	1.4	9.4	1.5	4.5	1.8
Thur	9.6	9.6	1.3	9.6	1.5	4.6	1.6
Thur	10.0	10.0	1.3	9.4	1.4	4.6	1.8
Fri	8.8	10.0	1.1	9.3	1.4	4.7	1.4
Fri	9.3	10.2	1.3	8.9	1.6	4.6	1.3
Sat	8.0	9.3	1.7	8.3	1.6	4.6	1.2
Sat	8.9	10.2	1.4	9.2	1.4	4.5	1.4
AVG:	9.2	9.5	1.4	9.2	1.5	4.6	1.7

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
Avg/Survey		35	0	0	0	0	0	0	0	0	0	0	0	22	0	10	4	139				
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
Avg/Survey		0	0	0	0	0	0	0	0	0	0	0	0	26	0	16	0	83				
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
Avg/Survey		7	0	0	0	0	0	0	0	0	0	0	0	48	6	18	0	156				
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
Avg/Survey		3	17	0	0	0	0	0	0	0	0	0	0	61	0	23	0	205				

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	
Avg/Survey		0	0	5	0	0	0	0	0	0	0	0	53	0	0	0	22	0	0	0	158	
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	
Avg/Survey		1	0	15	0	0	0	0	0	0	0	46	1	1	0	20	0	0	0	164		
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	
Avg/Survey		14	0	3	0	0	0	0	0	0	0	59	0	0	0	33	0	0	0	216		

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					
Weekly Total	117	77	0	0	0	0	0	0	0	0	625	13	282	7	1121						
Avg/Survey	8	6	0	0	0	0	0	0	0	0	45	1	20	1	80						