The Dalles Dam Fishway Status Report

7/7/24

Inspection Period 6/30 - 7/6, 2024

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800

The Beller Bern	Inspections	Criteria	Total Number of Ins	pections:	14	Temperature:	66.	9		
The Dalles Dam	OOC	Limit	Comments: Fishways in t		peration	Weekly Av	4.3			
			NORTH FI	SHWAY						
Exit differential	0	≤ 0.5'	HOITHIII	SHAAL						
Count station differential	0	≤ 0.3'								
	0	≤ 0.3 1.0' ± 0.1'								
Weir crest depth	0		A	1 .	40.5					
Entrance weir N1	0		Average for the week		10.5					
Entrance Differential	0		Average for the week		1.2					
N2	4	Closed		1.0	N. d.					
PUD Intake differential	4	≤ 0.5'	Lots of aquatic weed	accumulating at	North.					
			EAST FIS	HWAY						
Exit differential	0	≤ 0.5'								
Removable weirs 154-157	0	Per forebay								
Weir 158-159 differential	0	1.1' ± 0.1'								
Count station differential	0	≤ 0.3'								
153 Weir crest depth	0	1' ± 0.1'	1.2' per FPP.							
Junction pool weir JP6	0	> 7.0'	Weekly average	11.1						
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir E1	0	No criteria	Weekly average	5.1						
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.1						
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.1						
Collection channel velocity	0		2.60 fps 6/21	•						
Transportation channel velocity	0		3.70 fps 6/22							
North channel velocity	0		2.95 fps 6/22							
South entrance velocity	0	1.5 - 4 fps	3.94 fps 6/21							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir W1	0	depth (≥ 8')	Weekly average	10.5						
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.5						
Entrance weir W3	0	No criteria	Weekly average	-2.4						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir S1	0	depth (≥ 8')		10.3						
Entrance weir S2	0	depth (≥ 8')	Weekly average	10.4						
			JUVENILE	BYPASS						
Sluicegate operation	0	Units 1,8,22	22 sluicegate to rema	in open through	the 2024 fish pas	ssage season				
Turbine trashrack drawdown	0		6/12/24 all in criteria							
Spill volume/pattern	0	1 to 22	ITS open, spilling gates 1-8							
Turbine Unit Priority	0	per FPP	MU1 and MU22 in criteria							
Gatewells	0	Weekly	Out-migrating juvenile		atewells as of 6/22	2/2024				

Current Outages

MU11 OOS 3/25/24 0630 – 8/22/24 1700 – Annual and Thrust Bearing Oil Cooler

MU12 OOS 6/24/24 0630 – 8/15/24 1700 6 YR O/H

MU13 OOS 7/8/24 0630 - 7/11/24 1700 Annual

MU19 & MU20 FOOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

Maintenance

Spillway assessment; Spillgates 1-9 rehab 2034. Spillway crane replace first priority. Investigating gate operation frequency reduction.

Lamprey LPS contractor installed flumes and holding tank complete and tested. Operation began 5/16.

DC lower guide bearing pump replaced on FU1

Predators

Tori lines installed at east, west and south. Mobile Bird Gard operating in PH1.

Approx. 15-20 nesting DCCO on BPA towers. ~ 40 DCCO now on Murdock island tower.

Gulls still present west of count zones but foraging in smaller numbers as pelicans take best areas to feed.

Gull take (CAGU) occurring in SW4, displaced by pelicans. ~250 CAGU taken of 400 permitted. 16 DCCO taken on permit, limit 30.

Researchers

USGS temperature link-

15 new stomachs from gulls taken. Most were adult plumage CAGU and males. 9 DCCO stomachs taken. YN did take of fish GI/Stomachs.

USDA continue lethal gull take in SW4, mostly morning and mid day up to 40 taken this week. 3 DCCO taken this past week.

WDFW-BPA funded pikeminnow removal program commenced 30 April 2024

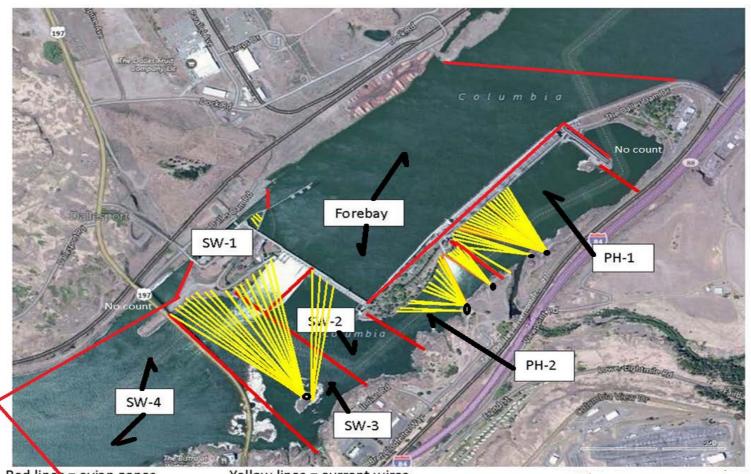
Operations

fish ladders in full operation.

Spillway in operation bays 1-8

LPS out of service

Bird Count Zones, Avian Lines and Deterrent Sites



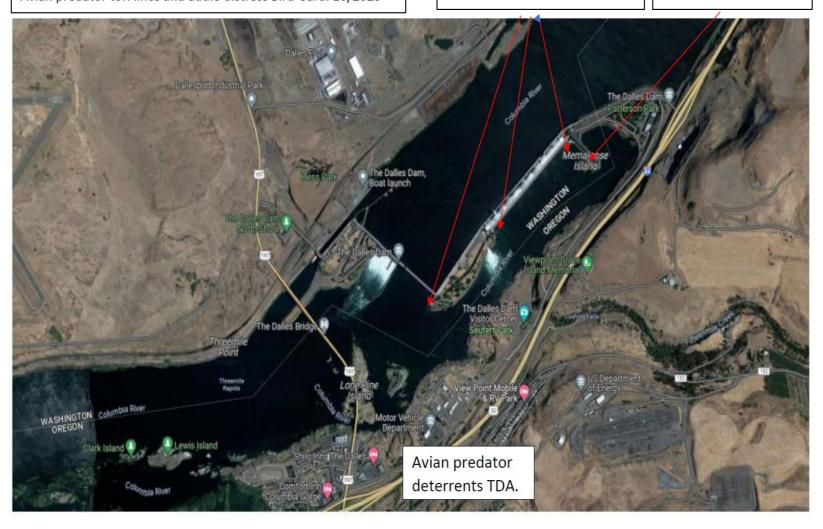
Red lines = avian zones

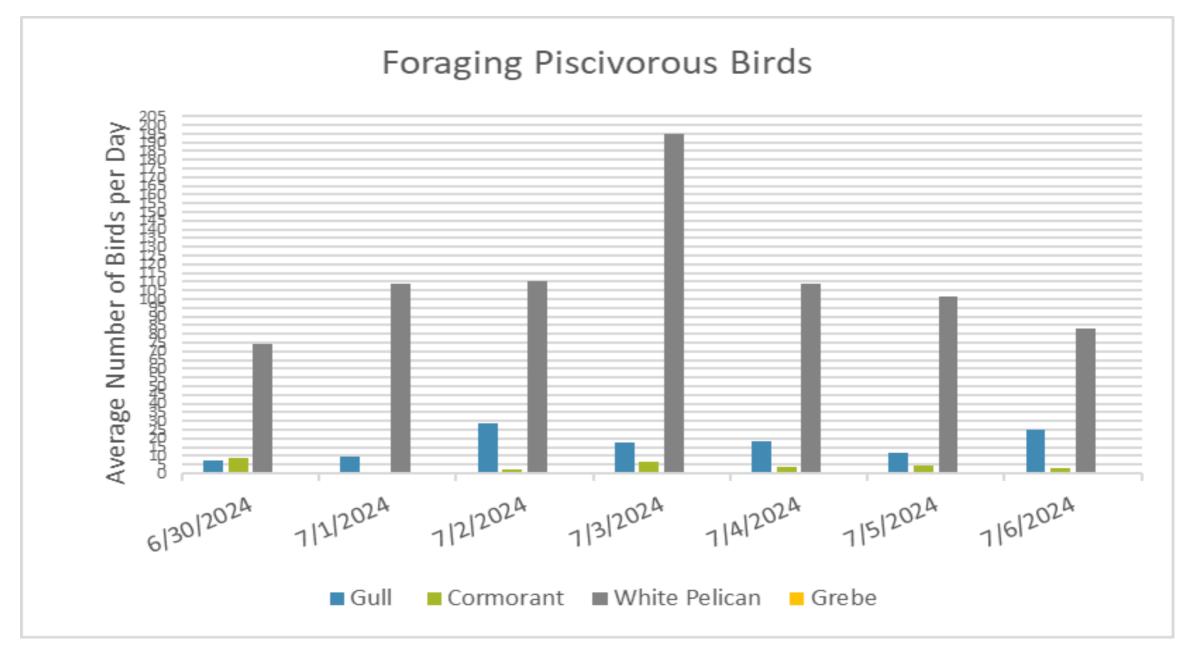
Yellow lines = current wires

Avian predator tori lines and audio distress Bird Gard. 10/2023

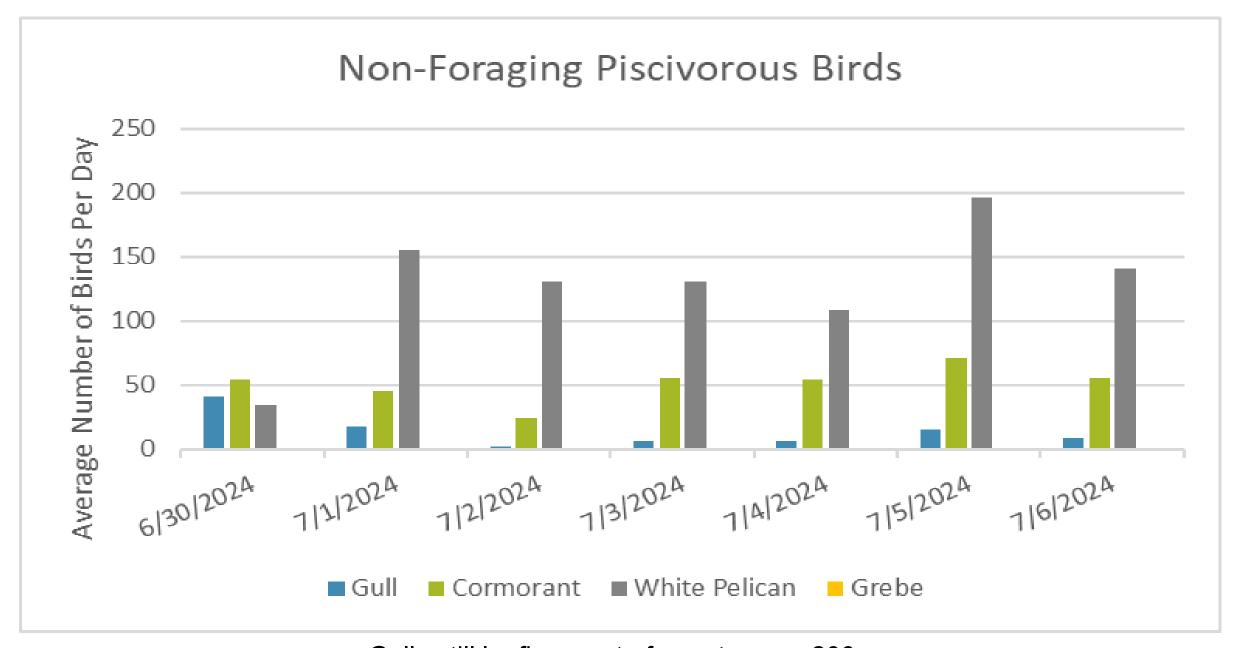
Tori lines at East Ladder entrances.

Bird Gard audio deterrent.

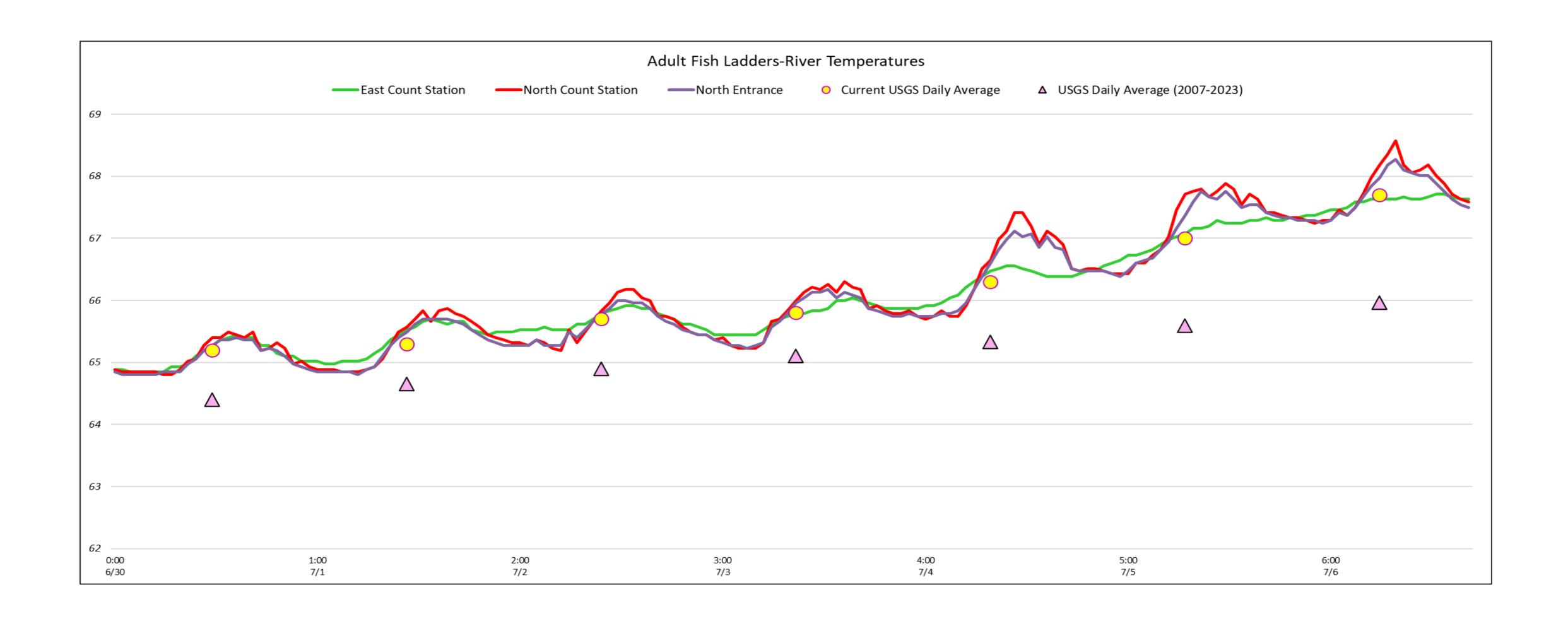




Pelicans displacing gulls in all ways in particular the prime zones 3 & 4
Some evening observations being performed to monitor night time foraging. Results inconclusive.



Gulls still loafing west of count zones 200+

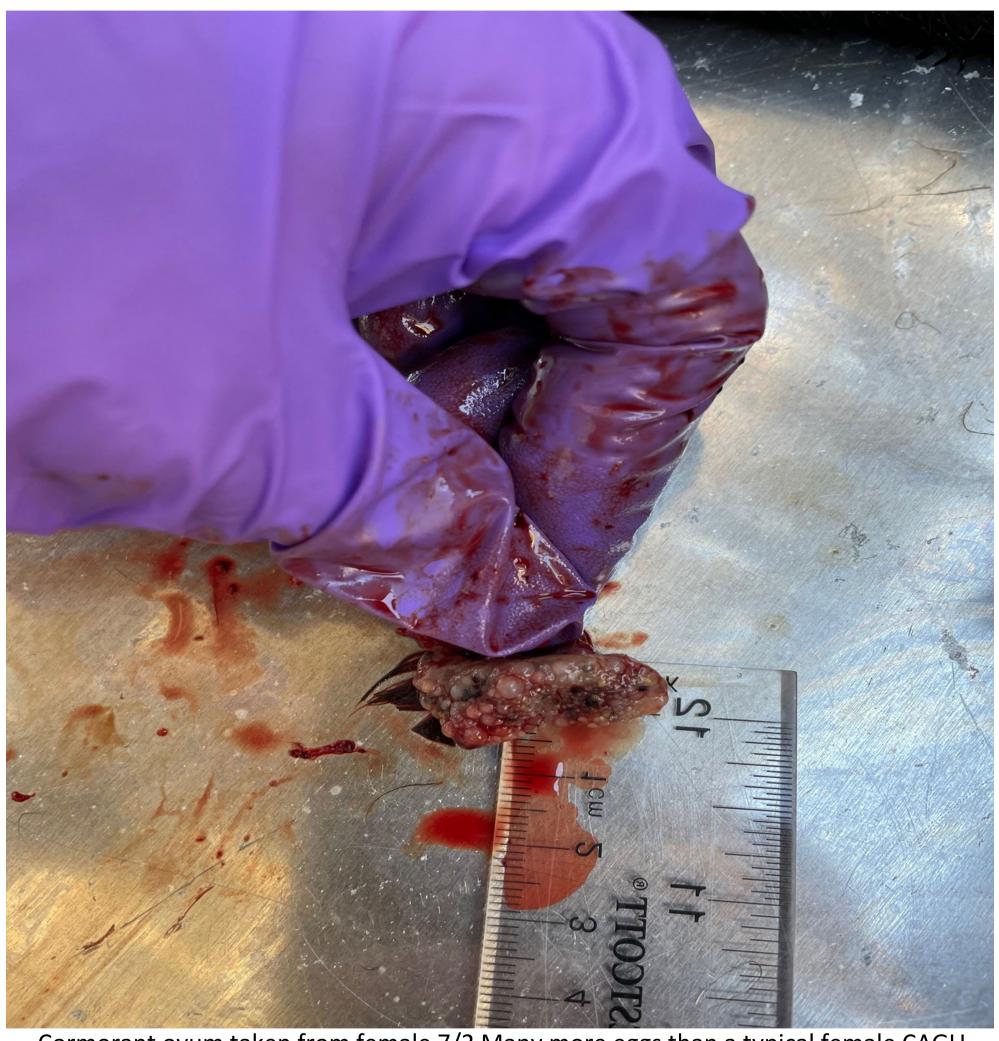


Secchi:		USGS			
5.0	Sun	65.7			
5.0	Mon	65.8			
4.5	Tue	66.3			
4.0	Wed	67.0			
4.0	Thurs	67.7			
3.4	Fri	68.0			
4.0	Sat	68.0			
4.3	AVG	66.9			

Reporting week data

Date:	North Ladder		East Ladder											
			East Entrance				West Entrance				South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2
6/30	1.2	10.6	1.5	3.9	10.9	11.7	9.9	1.4	10.1	9.6	-3.5	1.3	10.2	10.4
	1.2	10.5	1.6	3.8	10.8	11.6	9.8	1.4	10.1	10.1	-3.5	1.4	10.1	10.2
7/1														
	1.2	10.6	1.4	4.7	11.3	12.0	10.7	1.3	10.7	10.7	-2.7	1.3	10.2	10.4
	1.2	10.7	1.5	5.3	11.2	11.9	11.3	1.3	10.6	10.6	-2.1	1.3	10.4	10.5
7/2	1.2	10.6	1.6	4.8	11.0	11.7	10.8	1.4	10.3	10.4	-2.6	1.3	10.5	10.7
	1.3	10.4	1.5	4.7	11.1	11.9	10.7	1.4	10.2	10.2	-2.7	1.3	10.5	10.6
7/3														
	1.3	10.6	1.5	4.8	11.1	11.8	10.8	1.3	10.7	10.7	-2.5	1.2	10.6	10.7
	1.2	10.3	1.4	5.2	10.4	11.1	11.2	1.3	10.7	10.7	-2.3	1.2	10.6	10.8
7/4														
	1.2	10.6	1.5	4.4	10.9	11.8	10.4	1.5	10.1	10.1	-3.1	3.3	10.3	10.7
	1.3	10.3	1.4	5.4	11.2	12.0	11.4	1.3	10.8	10.8	-1.9	1.3	10.5	10.5
7/5														
	1.2	10.5	1.4	5.5	11.1	12.0	11.5	1.3	10.5	10.5	-2.4	1.3	10.5	10.5
	1.1	10.5	1.3	6.9	11.7	11.6	12.9	1.3	11.2	11.1	-0.6	1.2	10.6	10.8
7/6														
	1.2	10.6	1.6	5.1	11.2	11.2	11.1	1.5	10.2	10.1	-2.3	1.3	10.5	10.6
	1.2	10.5	1.3	6.9	11.5	11.3	12.9	1.3	11.2	11.1	-0.6	1.2	9.1	9.0
AVG:	1.2	10.5	1.5	5.1	11.1	11.7	11.1	1.4	10.5	10.5	-2.4	1.4	10.3	10.4

Fishways inspected twice daily



Cormorant ovum taken from female 7/2 Many more eggs than a typical female CAGU 1 of 3 DCCO taken recently w/15 total YTD 14 PIT tags recovered out of 220 birds sampled YTD ~250 CAGU taken -no RBGU