The Dalles Dam Fishway Status Report

7/2/23

Inspection Period 06/25-7/1, 2023

	Inspections	Criteria	Total Number of Insp	pections:	14	Temperature:	65.7 °F
The Dalles Dam	000	Limit			. Turbidity improving.		ecchi: 5.0
			NORTH FI	SHWAY	/		
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3'					
Weir crest depth	0	1.0' ± 0.1'					
Entrance weir N1	0	depth (≥ 8')	Average for the week	10.4			
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.3			
N2		Closed					
PUD Intake differential	0	≤ 0.5'					
			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'	Increased weir top flow	v 1.3' due to s	had. raked pickets	less frequently.	
153 Weir crest depth	0	1' ± 0.1'	·		•	· ·	
Junction pool weir JP6	0	> 7.0'	Weekly average	11.9			
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5			
Entrance weir E1	0	No criteria	Weekly average	9.9			
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.1			
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.1			
Collection channel velocity	0	1.5 - 4 fps	2.69 fps 7/3/23				
Transportation channel velocity	0	1.5 - 4 fps	3.64 fps 7/4/23				
North channel velocity	0	1.5 - 4 fps	2.44 fps 6/5/23				
South entrance	0	1.5 - 4 fps	5.15 fps 7/4/23				
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5			
Entrance weir W1	0	depth (≥ 8')	Weekly average	10.1			
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.3			
Entrance weir W3	0	No criteria	Weekly average	-2.5			
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4			
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.3			
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.6			
			JUVENILE I	BYPASS			
Sluicegate operation	0		3-8-18 gates open.				
Turbine trashrack drawdown	0	<1.5', biwkly	6/26/2023 All in criteri	a.			
Spill volume/pattern	0	1 to 22	1-8 bays in operation of	daily			
Turbine Unit Priority	0	per FPP					
Gatewells	0	Weekly	Less fish in gatewells,	mostly adult s	shad.		

THE DALLES DAM



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

MU1 OOS 06/26/2023 0630 – 07/10/23 1700, ANNUAL MU4 OOS 04/17/2023 0630 – 9/28/2023 1700, ANNUAL MU12 OOS 04/12/2021 0001 – 9/22/2023 ANNUAL MU19 & MU20 FOOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

Maintenance

Plan in place for fish unit intake trashrack rake in preparation for potential debris issues. Monitoring fish unit differential. Calibrations at fishways entrances are all within criteria 6/25/2023

Planning spill gates 9 and 10 cable and gearbox swap. Resealing bulkheads.

Spillway assessment; Spillgates 1- 9 rehab 2034. Spillway crane replace first priority. Reviewing gate operation frequency. Northern Pikeminnow Management Program (NPM) >=230 231 for the week, 1335 YTD Installed Tori line at east entrance obtained from Englund marine, Astoria.

Predators

60+ pelicans foraging spillway tailrace eddy line off spillwall and in SW4 20 foraging gulls in SW3 now with lower flows. DCCO's remain on BPA towers with ~18 nests occupied. Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit. Falconry abatement finished for year. Planning to add RC boat trial July 16th.

Research/Construction/Contractors

Installed tori line from NOAA seagrant at east entrance to deter predator birds. Initial response promising. WDFW dam anglers making periodic visits. Catch rates showing dramatic increase, including bass and walleye removal! USGS river temperatures link https://pweb.crohms.org/tmt/documents/ops/temp/202305.lcol.html

4 Peaks fish counters 16hr/7 day/wk started Apr 1.

Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice, other 2 next winter.

ODFW conducting monthly fishway inspections.

PTAGIS fishladder data collection at count stations continues

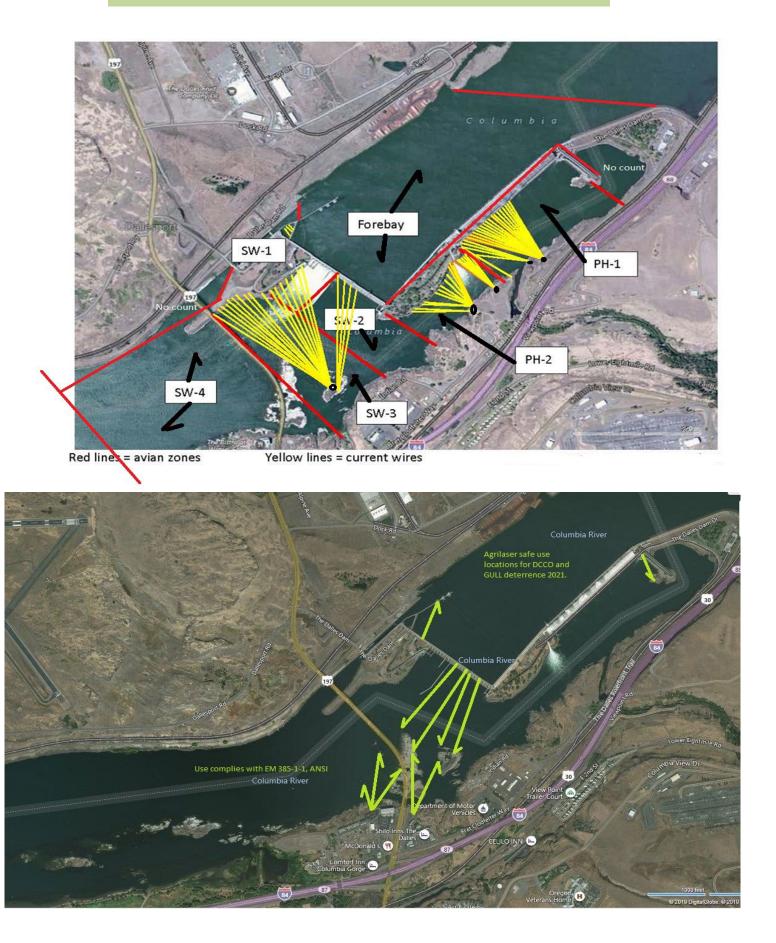
Operations

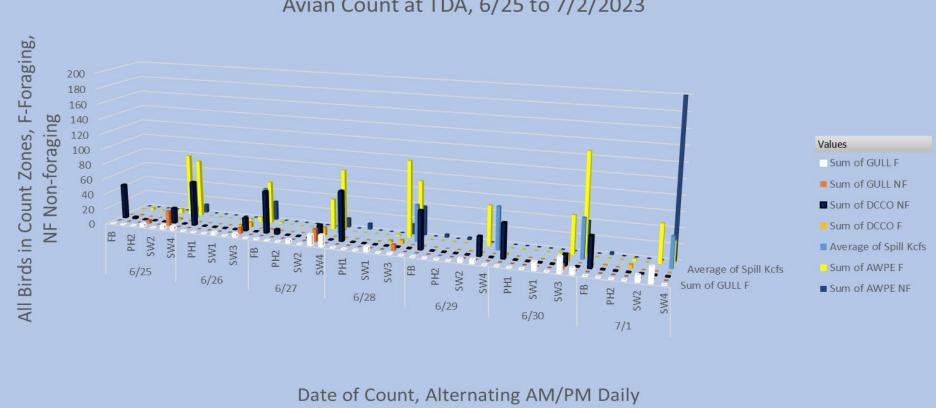
Sluice gates 3-1, 3-2, 3-3, 8-1, 8-3, 18-2 open

West end Gatewells contain significant numbers (20+) of sub yearlings, MU6, 7, 15, 16, 2 had sub mortality.

Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

Bird Count Zones, Avian Lines and Laser Deterrent Sites



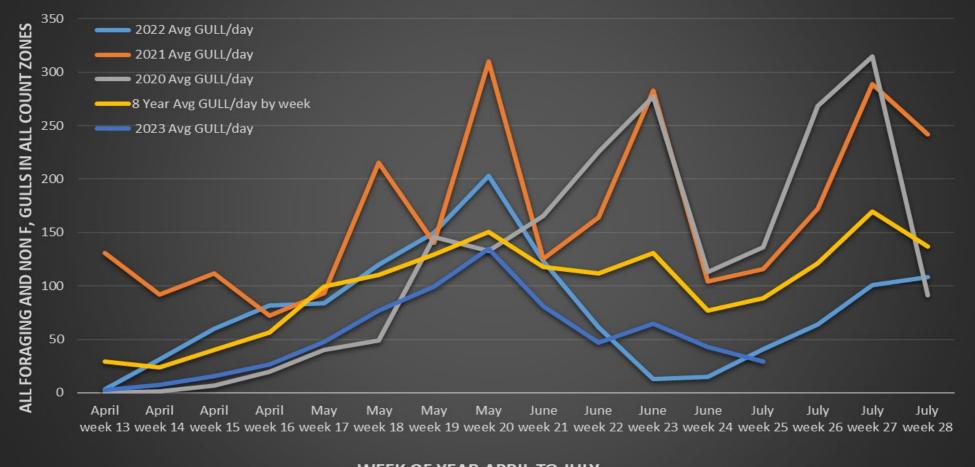


Avian Count at TDA, 6/25 to 7/2/2023

No falconry this week. Increasing number of pelicans. Tori line installed at east entrance.

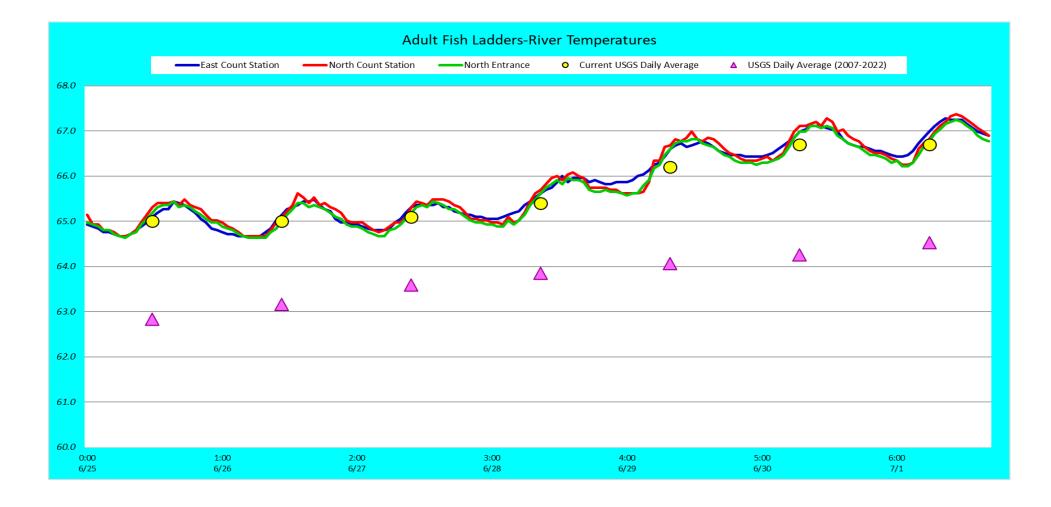
^{+ -}





WEEK OF YEAR APRIL TO JULY

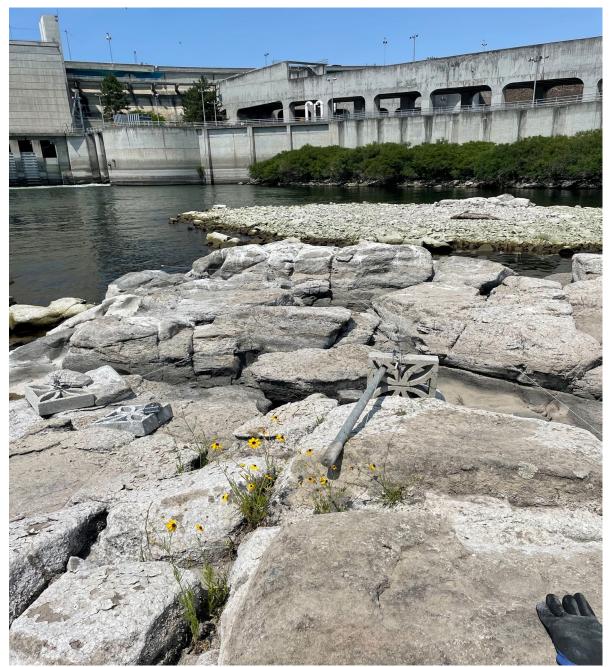
Large numbers of foraging pelicans displacing gulls from normal feeding spots. Gulls displaced by high numbers of pelicans?



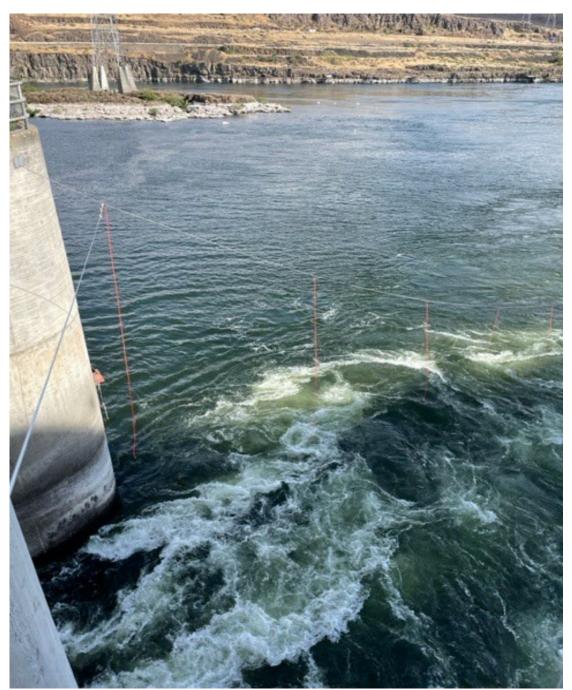
Secchi:		USGS F°
5.0	Sun	65.0
5.0	Mon	65.0
5.0	Tue	65.1
5.0	Wed	65.4
5.0	Thurs	66.2
5.0	Fri	66.7
5.0	Sat	66.7
5.0	AVG	65.7

Reporting week data

	North Ladder		East Ladder											
Date:	North Lauder		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
6/25	1.2	10.6	1.4	9.7	11.1	11.5	11.6	1.6	9.7	9.9	-2.8	1.4	10.5	9.7
	1.3	10.5	1.4	9.8	11.3	11.6	11.8	1.5	9.9	10.1	-2.6	1.5	10.3	9.5
6/26														
	1.3	10.4	1.5	10.0	10.9	11.1	12.0	1.6	10.0	10.2	-2.4	1.4	10.6	9.7
	1.3	10.4	1.6	9.7	10.6	10.8	11.7	1.5	9.9	10.0	-2.6	1.4	10.3	9.4
6/27	1.3	10.4	1.4	10.1	11.4	11.7	12.0	1.5	10.4	10.6	-2.3	1.4	10.5	9.8
	1.2	10.4	1.5	9.7	11.0	11.3	11.7	1.6	9.9	10.1	-2.8	1.5	10.2	9.2
6/28	1.3	10.4	1.4	9.8	11.1	11.4	11.8	1.5	10.1	10.3	-2.7	1.4	10.5	9.3
	1.3	10.3	1.5	9.8	11.1	11.4	11.8	1.5	10.2	10.3	-2.6	1.4	10.5	9.4
6/29	1.3	10.4	1.5	9.8	10.9	11.1	11.8	1.6	10.1	10.3	-2.6	1.4	10.4	9.4
	1.3	10.3	1.5	10.0	11.1	11.3	12.0	1.5	10.3	10.4	-2.5	1.5	10.4	9.0
6/30	1.3	10.4	1.4	10.1	11.2	11.5	12.1	1.5	10.4	10.6	-2.3	1.4	10.1	9.8
	1.3	10.4	1.5	10.1	11.2	11.5	12.2	1.4	10.5	10.6	-2.3	1.3	10.2	10.0
7/1	1.3	10.4	1.5	10.0	11.1	11.3	11.9	1.4	10.4	10.6	-2.3	1.4	10.0	9.9
	1.2	10.4	1.5	10.0	11.0	11.1	12.0	1.5	10.1	10.2	-2.5	1.4	10.1	9.9
AVG:	1.3	10.4	1.5	9.9	11.1	11.3	11.9	1.5	10.1	10.3	-2.5	1.4	10.3	9.6



No resting DCCO or AWPE and sturgeon mortality.



Tori line first deployed 6/28. Pelicans are backing off.