

The Dalles Dam Fishway Status Report

3/20/23

Inspection Period 3/12-3/18, 2023

THE DALLES DAM



US Army Corps
of Engineers
Portland District

The Dalles Project-Fisheries
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The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 14		Temperature: 39.6 °F
			Comments: Both fish units flow in east ladder		Weekly Ave. Secchi: 5.0

NORTH FISHWAY

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	9.5	
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.3	
N2	0	Closed			
PUD Intake differential	0	≤ 0.5'			

EAST FISHWAY

Exit differential	0	≤ 0.5'			
Removable weirs 154-157	0	Per forebay	Note; 155 weir hoist failed.		
Weir 158-159 differential	0	1.1' ± 0.1'			
Count station differential	0	≤ 0.3'			
153 Weir crest depth	0	1.3' ± 0.1'			
Junction pool weir JP6	0	> 7.0'	Weekly average	9.7	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir E1	0	No criteria	Weekly average	3.3	
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.8	
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.8	
Collection channel velocity	0	1.5 - 4 fps	3.3fps 3/20/23		
Transportation channel velocity	0	1.5 - 4 fps	4.71fps 3/8/23		
North channel velocity	0	1.5 - 4 fps	2.41fps 3/11/23		
South channel velocity	0	1.5 - 4 fps	No data		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir W1	0	depth (≥ 8')	Weekly average	10.2	
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.2	
Entrance weir W3	0	No criteria	Weekly average	-3.6	
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir S1	0	depth (≥ 8')	Weekly average	9.7	
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.7	

JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18	Intakes MU1, 16 open. Endgate open.		
Turbine trashrack drawdown	0	<1.5', biwklly	Nothing to report. FU differential .3' 3/9/23		
Spill volume/pattern	0	1 to 22	ITS spill 4kcfs estimated.		
Turbine Unit Priority	0	per FPP			
Gatewells	0	Weekly	no salmonid fish mortality		

Current Outages

MU19 & MU20 FOOS 10/07/2018 1– 10/27/2023 T10 ACETYLENE
MU12 OOS 04/12/2021 0001 – 9/22/2023 ANNUAL
MU17 OOS 02/06/2023 – 03/30/2023 , TURBINE BEARING
MU17 & MU18 OOS 02/06/2023 – 03/30/2023 FOR STRAINER
MU13 FOOS 02/14/2023 - 04/01/2023 LOW GOV OIL

Maintenance

Reviving fish unit intake trashrack rake. Now prepared for use if debris issues come up.

AWS intake trashrack debris management - PDT reviewing alternatives.

Planning spill gates 9 and 10 cable and gearbox swap. Bulkhead seal replacement needed. Estimate complete April.

Spillway assessment; Spillgates 1- 9 rehab 2034. Includes spillbay 9 trunnion pin repair. Spillway crane first priority

North count station crowder failed. TDE working on it. Also brush requires adjustments

Predators

Scout gulls in count zones. Cormorants consistently attempting to nest on BPA towers. ~50 to 80 individuals hazed off.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Waiting on WDFW permit process.

Falconry abatement contract may start next week to deter DCCO nesting on BPA towers.

Research/Construction/Contractors

USGS river temperatures link [USGS ladder-river temperatures](#) [USGS ladder-river temperatures](#)

Conducting prework logistics for 4 Peaks fish counters. Start Apr 1.

Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice, Investigating mods for entrance weirs

PTAGIS fishladder data collection at count stations continues

Operations

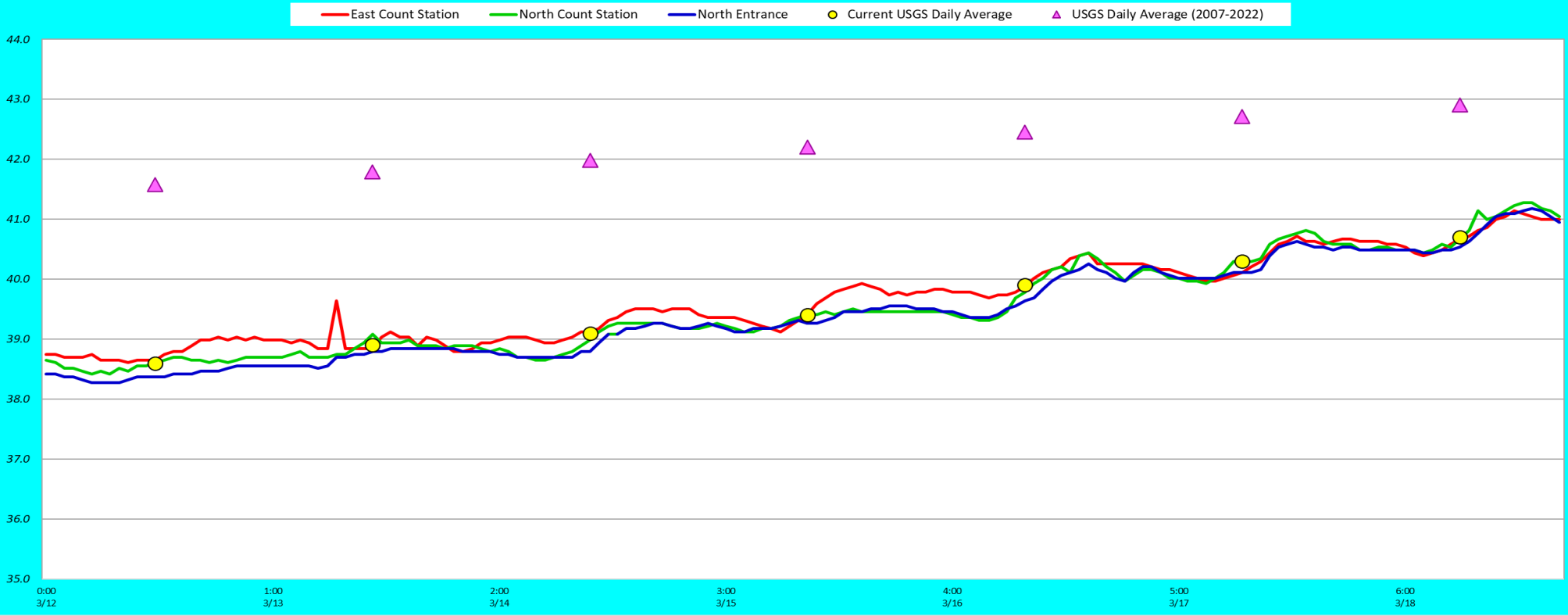
Sluice gates 1-2, 1-3, 16-1, 16-2, endgate opened March 1

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

Bird Count Zones, Avian Lines and Laser Deterrent Sites

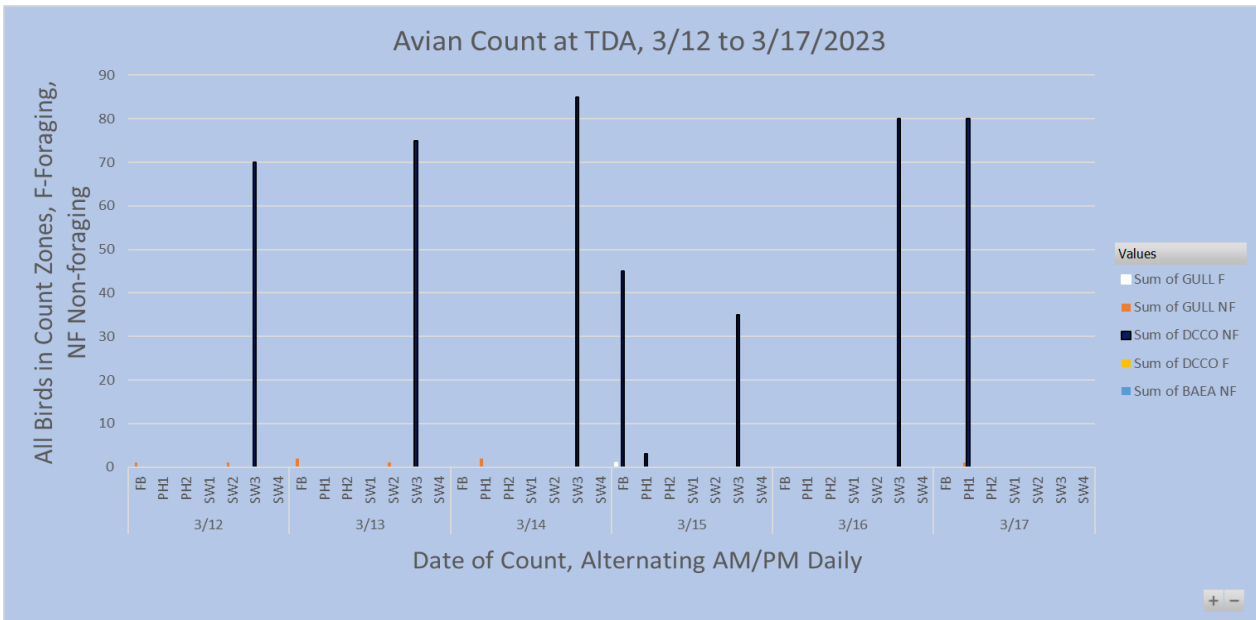


Adult Fish Ladders-River Temperatures





Scarecorn



Hazing with air horn, DCCO as they move onto BPA towers for nesting.

Secchi:		USGS F°
5.0	Sun	38.6
5.0	Mon	38.9
5.0	Tue	39.1
5.0	Wed	39.4
5.0	Thurs	39.9
5.0	Fri	40.3
5.0	Sat	40.7
5.0	AVG	39.6

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
3/12	1.4	9.5	1.6	3.7	12.7	12.7	10.2	1.5	10.1	10.1	-3.2	1.5	9.4	9.4
	1.4	9.6	1.5	3.8	12.6	12.6	10.2	1.5	10.2	10.1	-3.2	1.5	9.5	9.5
3/13	1.5	9.4	1.5	3.9	12.2	12.2	10.3	1.4	10.3	10.3	-3.1	1.5	9.5	9.4
	1.3	9.5	1.4	3.4	12.3	12.4	10.0	1.5	10.0	10.0	-3.4	1.5	9.6	9.5
3/14	1.4	9.6	1.3	1.6	12.6	12.7	10.9	1.3	10.9	10.9	-2.7	1.3	10.4	10.3
	1.4	9.7	1.6	2.3	12.4	12.4	10.4	1.3	10.4	10.3	-2.8	1.3	10.5	10.3
3/15	1.3	9.7	1.3	3.0	12.5	12.5	10.5	1.3	10.4	10.4	-3.0	1.4	9.9	9.8
	1.2	9.7	1.7	1.7	11.8	12.0	9.2	1.5	9.5	9.6	-3.9	1.5	9.5	9.2
3/16	1.4	9.1	1.3	3.2	12.1	12.1	10.1	1.3	10.5	10.5	-3.1	1.3	10.3	10.4
	1.3	10.4	1.7	1.4	11.8	11.8	8.7	1.4	10.3	10.3	-4.2	1.4	9.9	9.9
3/17	1.3	9.2	1.5	7.1	10.6	10.6	8.6	1.6	9.7	9.7	-4.7	1.4	9.2	9.3
	1.2	9.3	1.6	6.9	10.4	10.4	8.4	1.6	9.7	9.8	-4.8	1.5	9.2	9.2
3/18	1.4	9.1	1.5	2.1	10.4	10.3	9.6	1.4	10.4	10.5	-4.0	1.5	9.5	9.5
	1.3	9.2	1.6	1.7	10.5	10.5	9.1	1.5	10.1	10.1	-4.1	1.4	9.4	9.4
AVG:	1.3	9.5	1.5	3.3	11.8	11.8	9.7	1.4	10.2	10.2	-3.6	1.4	9.7	9.7

Fishways inspected daily