

The Dalles Dam Fishway Status Report

10/1/23

Inspection Period 09/24-09/30, 2023

THE DALLES DAM



US Army Corps
of Engineers
Portland District

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

The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 14		Temperature: 67.9°F
			Comments: Fall conditions		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	9.4	
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.4	
N2		Closed			
PUD Intake differential	0	≤ 0.5'	Likely due to aquatic weeds on intake. Rake under repair by PUD.		

EAST FISHWAY

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	10.6	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir E1	0	No criteria	Weekly average	3.6	
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	2.18 west 9/5/23		
Transportation channel velocity	0	1.5 - 4 fps	2.96 fps 9/5/23		
North channel velocity	0	1.5 - 4 fps	3.08 fps 9/13/23		
South entrance	0	1.5 - 4 fps	4.01 fps 9/13/23		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir W1	1	depth (≥ 8')	Weekly average	8.3	
Entrance weir W2	1	depth (≥ 8')	Weekly average	8.3	
Entrance weir W3	0	No criteria	Weekly average	-2.1	
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir S1	1	depth (≥ 8')	Weekly average	8.2	
Entrance weir S2	2	depth (≥ 8')	Weekly average	13.2	

JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18	1-8-18 gates open.		
Turbine trashrack drawdown	0	<1.5', biwkly			
Spill volume/pattern	0	1 to 22	Spill closed		
Turbine Unit Priority	0	per FPP			
Gatewells	0	Weekly			

Current Outages

MU4 OOS 04/17/2023 0630 – 9/28/2023 1700, ANNUAL
MU19 & MU20 FOOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

Maintenance

Working on contract for north ladder vegetation removal in Feb
Planning spill gates 9 and 10 cable and gearbox swap. Possible this fall/winter.
Spillway assessment; Spillgates 1- 9 rehab 2034. Spillway crane replace first priority. Reviewing gate operation frequency.
Planning for contractor lamprey entrance weir mods and in house EFL exit weir maintenance work this winter.
Calibrations all within criteria 9/30

Predators

Northern Pikeminnow Management Program 2418 YTD -52 fish caught 9/18-24 Fishing concludes 10/6
Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit.
Trial of Tori lines installed at east, south and west entrance
Pacific Lamprey translocation season ended 9/6 w/ a grand total of 1501 fish captured/translocated

Research/Construction/Contractors

USGS temperature link- [September](#)
4 Peaks fish count ending 10/31
Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice, other 2 next winter.
Planning for install of junction pool lamprey trap and entrance weir modifications via contractor this winter.
ODFW conducting monthly fishway inspections.
PTAGIS fishladder data collection at count stations continues
zebra/quagga mussel samples collected on 9/12/2022

Operations

Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 18-2 in operation
Fish unit flow reduced from 5kcfs to 4 kcfs rest of season due to grating damage repair.

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

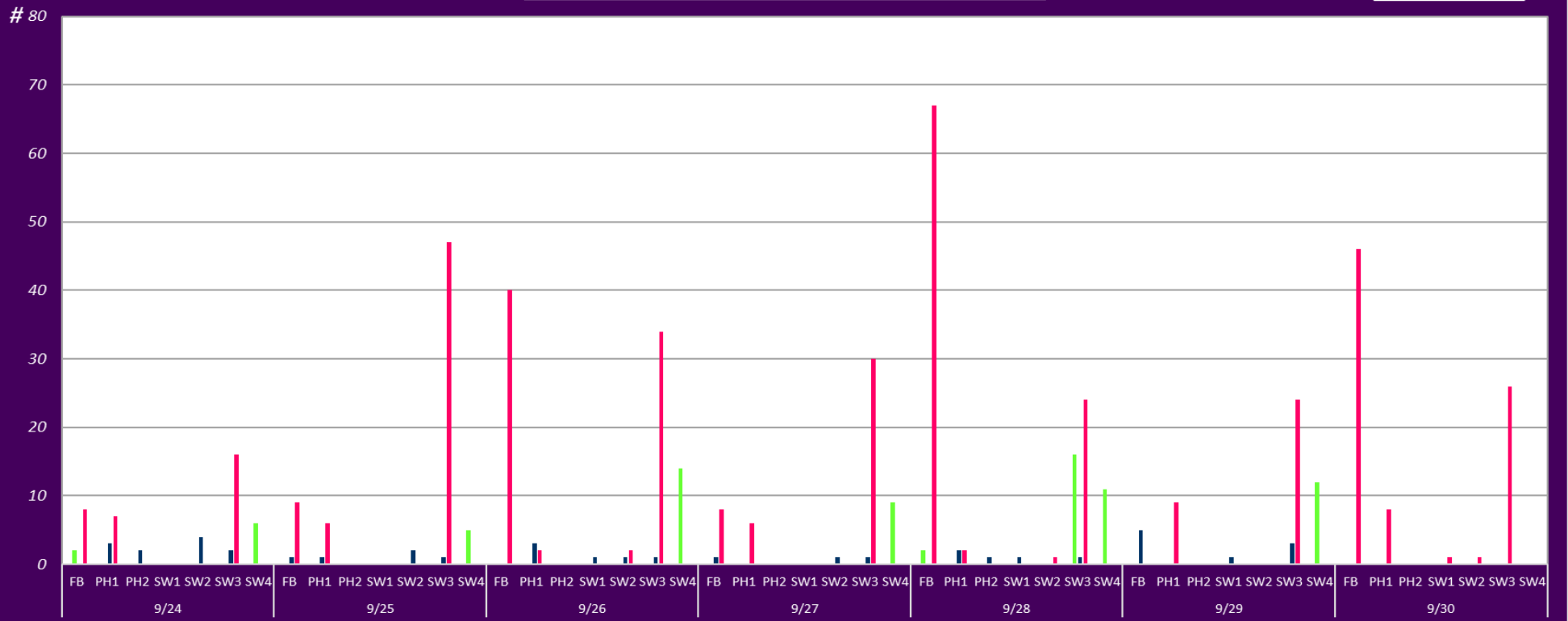
Bird Count Zones, Avian Lines and Laser Deterrent Sites



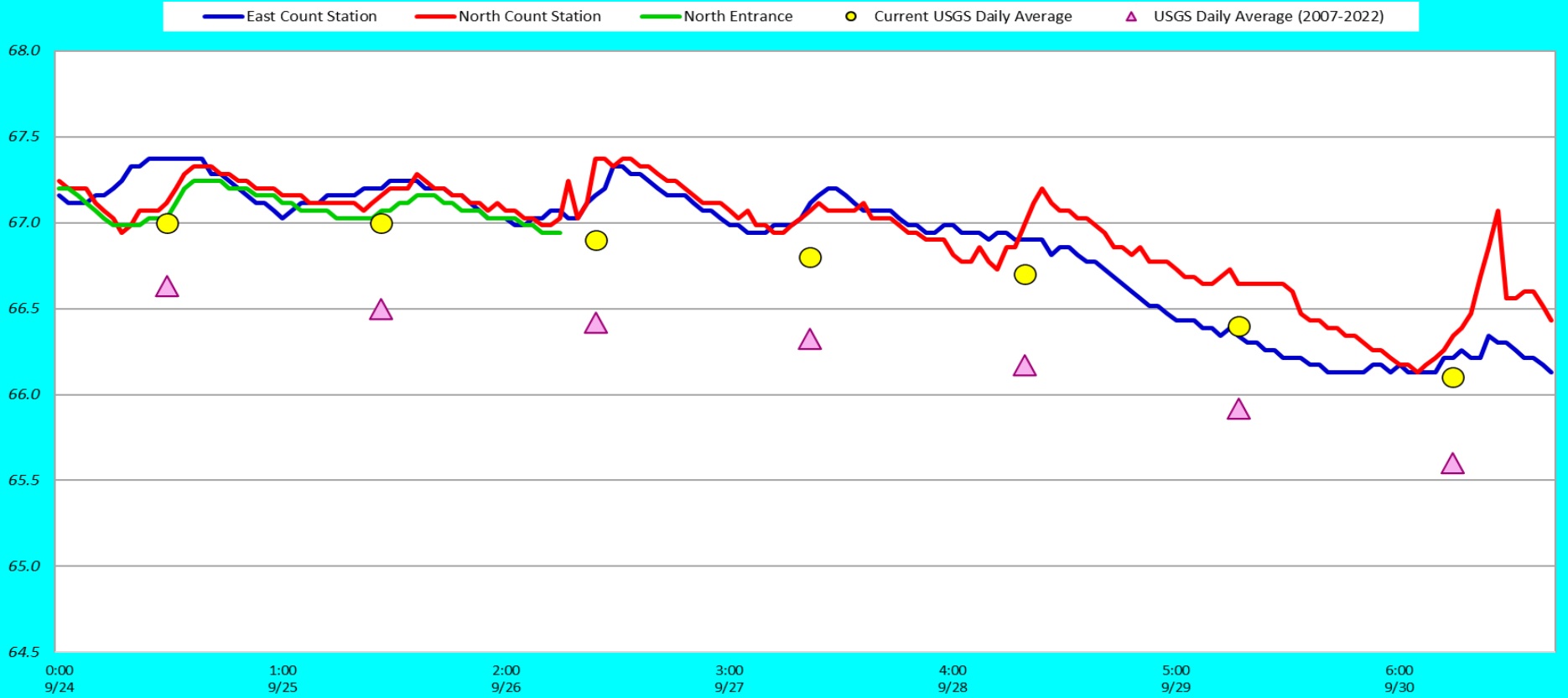
Gull and Cormorant Activity

F=Forage
NF=idle

Zero Gull F GULL NF DCCO F DCCO NF



Adult Fish Ladders-USGS River Temperatures



Secchi:		USGS
5.0	Sun	69.3
5.0	Mon	69.0
5.0	Tue	68.2
5.0	Wed	67.3
5.0	Thurs	66.9
5.0	Fri	67.1
5.0	Sat	67.2
5.0	AVG	67.9

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
9/24	1.4	9.4	1.5	3.5	11.1	11.0	10.5	1.4	8.4	8.5	-2.3	1.4	8.5	8.4
	1.3	8.5	1.4	3.6	11.2	11.1	10.6	1.4	8.5	8.6	-2.2	1.3	8.5	8.5
9/25	1.3	9.6	1.5	3.6	11.2	11.2	10.6	1.5	8.3	8.3	-2.2	1.3	8.3	8.3
	1.4	9.5	1.5	3.6	11.1	11.1	10.6	1.5	8.2	8.2	-2.3	1.5	8.1	8.0
9/26	1.4	9.4	1.4	3.7	11.3	11.3	10.7	1.3	8.4	8.4	-1.8	1.4	8.2	8.2
	1.5	9.3	1.5	3.7	11.3	11.2	10.7	1.4	8.4	8.4	-1.9	1.4	8.3	8.4
9/27	1.6	9.2	1.4	3.7	11.2	11.2	10.7	1.5	8.2	8.2	-2.1	1.4	8.2	8.2
	1.4	9.4	1.4	3.8	11.4	11.4	10.9	1.5	8.2	8.2	-2.1	1.4	8.3	8.2
9/28	1.4	9.5	1.4	3.9	11.5	11.4	10.9	1.4	8.5	8.5	-1.7	1.3	8.2	8.5
	1.5	9.4	1.3	4.2	11.8	11.7	11.2	1.3	8.6	8.6	-1.7	1.3	8.6	8.6
9/29	1.3	9.7	1.6	3.7	10.8	10.7	10.6	1.5	8.2	8.2	-2.0	1.5	7.8	7.8
	1.3	9.6	1.6	3.6	10.7	10.7	10.6	1.5	8.2	8.2	-2.1	1.4	8.3	8.2
9/30	1.2	9.6	1.7	3.2	10.5	10.5	10.2	1.6	7.8	7.8	-2.4	1.5	8.0	7.9
	1.3	9.5	1.6	2.9	10.4	10.4	9.9	1.5	8.1	8.1	-2.9	1.5	8.0	77.5
AVG:	1.4	9.4	1.5	3.6	11.1	11.1	10.6	1.5	8.3	8.3	-2.1	1.4	8.2	13.2

Fishways inspected twice daily



Occasional persistent
DCCO feeding at the
south ladder
entrance.



More typical view on
10/6/23 No feeding near
the entrances or east exit.