

The Dalles Dam Fishway Status Report

7/3/22

Inspection Period 6/26-7/2 2022

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: 61.6 °F
			Comments: W155 failure RCC restricted FB		Weekly Ave. Secchi: 3.3

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')		1.3	
Entrance Differential	0	1.0' - 2.0'		11.7	
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. Forebay restriction minimum 157' applied.		
Weir 158-159 differential	0	1.1' ± 0.1'			
Count station differential	0	≤ 0.3'	Count station pickets plugging up with weeds requiring frequent raking to restore differential.		
153 Weir crest depth	0	1.3' ± 0.1'	Some fluctuations in weir 153 height due to significant weed debris buildup on east pickets.		
Junction pool weir JP6	0	> 7.0'	Weekly average	18.1	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir E1	0	No criteria	Weekly average	7.0	Requires regular manual corrections due to high tailwater.
Entrance weir E2	0	depth (≥ 8')	Weekly average	9.8	Requires regular manual corrections due to high tailwater.
Entrance weir E3	0	depth (≥ 8')	Weekly average	9.8	Requires regular manual corrections due to high tailwater.
Collection channel velocity	0	1.5 - 4 fps	1.43fps east/ 2.47fps west AVG= 1.95fps 6/25/2022		
Transportation channel velocity	0	1.5 - 4 fps	3.87 fps 6/20		
North channel velocity	0	1.5 - 4 fps	1.88 fps 6/25		
South channel velocity	0	1.5 - 4 fps	2.43 fps 6/25		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.8	
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.0	
Entrance weir W3	0	No criteria	Weekly average	4.7	
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir S1	0	depth (≥ 8')	Weekly average	16.9	Due to high tail water conditions
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.7	Due to high tail water conditions

JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18			
Turbine trashrack drawdown	1	<1.5', biwklly	6/25 All MUs in criteria. FUs being monitored and flushed as needed.		
Spill volume/pattern	0	1 to 22	Pattern per FPP according to volume.		
Turbine Unit Priority	0	per FPP	Fish Unit flow may be below 2500cfs due hydraulics in flow and screen plugging with weeds.		
Gatewells	0	Weekly	6/25/22, small numbers of adult shad observed and 1 adult chinook in 15-1. No mortality.		

Current Outages

T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels

MU12 OOS 0001 4/12/2021 – 1700 10/27/2022 for Annual & Cooler Upgrades

MU20 OOS 5/16/2022 0630-6/23/2022 1700 ANNUAL FALL PROTECTION

Spillgate 14 forced out of service due to operational issues. RTS after spill season. Nine of 15 gates south of spillwall now OOS.

Maintenance

East fishladder wier 155 hoist failed. Weir in down position. Return to service Jan 2023, depending on funding. Forebay restriction 157.

Permanent oil boom reinstall planned for April was postponed until this winter.

Calibrations on east fishway entrances. E-2 ~6" out of calibration, All in criteria.

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

Fish unit rehab Phase 1A awaiting funding.

AWS intake trashrack debris management - funded restart FY22.

Fish unit 2 shutdown 1 hour night of 6/28 do to continued high differential.

Predators

Falconry continues for pushing gulls from count zones. Continuing to track changes.

USDA shore hazing daily. Boating curtailed due to high water and low gull numbers. Falconers daily operations focused on no boat days.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit. Fish Passage Plan 2022 approved.

Large numbers of pelicans after fallback shad and parasitising cormorants. Also targeting sockeye in culdesac area, but no observed takes..

Flows reducing and turbidity decreasing to more normal conditions for avian predators. Gull numbers climbing again.

Research/Construction/Contractors

USGS river temperatures link [June°F](#)

4 peaks visual counting resumed April 1

Planned improvements to tribal lamprey trapping equipment. Reduced to bare minimum due to funding constraints

Pikeminnow removal program reporting period 5/30-6/26 40/YTD

Fish Accords Lamprey Passage plan ongoing at 60% DDR junction pool LPS. Investigating mods for entrance and exit wiers.

PTAGIS fishladder data collection at in service count station continues.

Operations

Ice Trash sluiceway endgate open. Sluiceways 1,8,18 open per FPP.

East and North fishways in full service

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

2022 Piscivorous Birds

F=foraging, NF=non-foraging

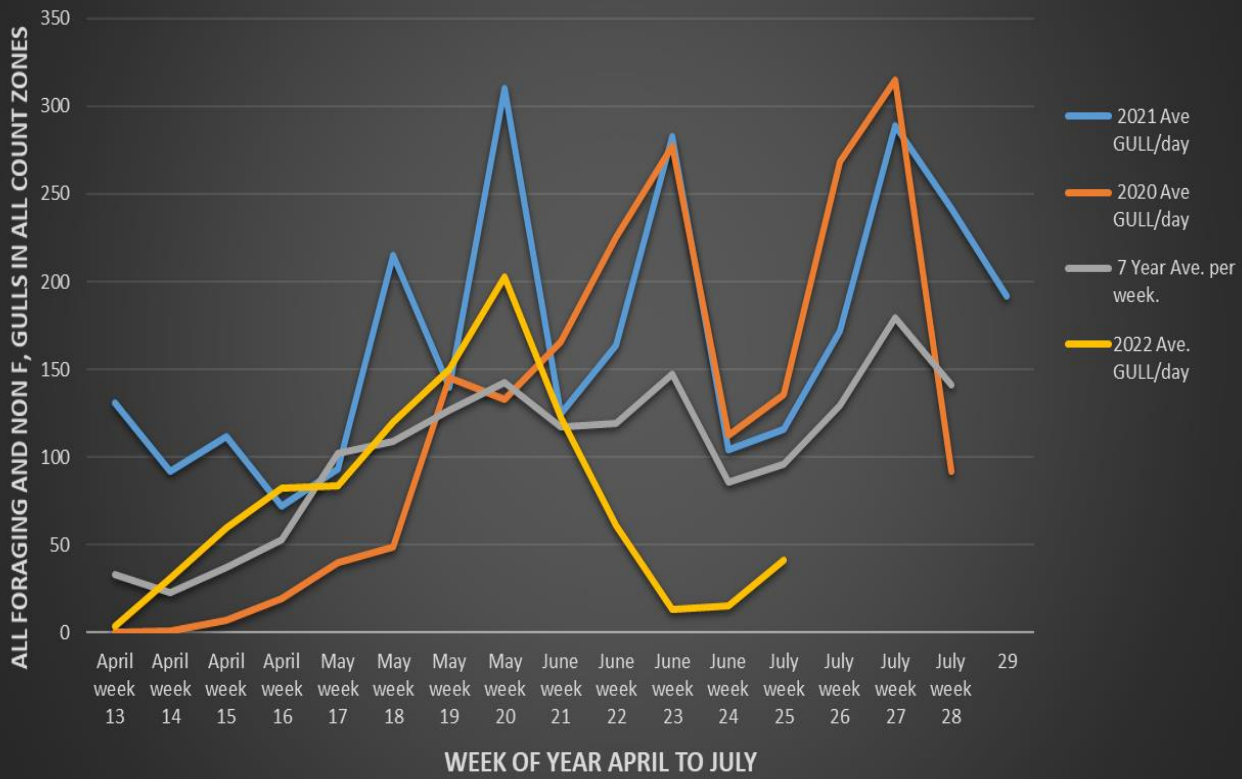
Date	Observer	Time	ZONE	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF
6/26	MM	PM	FB	0	0	9	60	0	0
6/26			PH1	0	0	0	0	0	0
6/26			PH2	0	0	0	0	0	0
6/26			SW1	0	0	0	0	0	0
6/26			SW2	0	0	0	0	0	0
6/26			SW3	0	0	0	17	0	0
6/26			SW4	0	9	0	0	0	0
6/27	MM	AM	FB	0	0	0	60	0	0
6/27			PH1	0	0	0	7	0	0
6/27			PH2	0	0	0	0	0	0
6/27			SW1	0	0	0	0	0	0
6/27			SW2	0	0	0	0	0	0
6/27			SW3	0	0	0	0	0	0
6/27			SW4	0	19	0	0	0	0
6/28	JED	PM	FB	0	0	1	67	0	0
6/28			PH1	0	0	1	0	0	0
6/28			PH2	0	0	0	0	0	0
6/28			SW1	0	0	0	0	0	0
6/28			SW2	0	0	0	0	0	0
6/28			SW3	0	20	2	24	0	0
6/28			SW4	15	0	2	0	0	0
6/29	JED	AM	FB	0	0	0	94	0	0
6/29			PH1	0	0	5	0	0	0
6/29			PH2	1	0	0	0	0	0
6/29			SW1	0	0	0	0	0	0
6/29			SW2	1	0	2	0	0	0
6/29			SW3	1	10	2	18	0	0
6/29			SW4	55	0	0	0	0	0
6/30	JED	PM	FB	0	0	6	64	0	0
6/30			PH1	0	0	0	5	0	0
6/30			PH2	0	0	0	0	0	0
6/30			SW1	0	0	0	0	0	0
6/30			SW2	0	0	0	0	0	0
6/30			SW3	2	10	0	14	0	0
6/30			SW4	15	0	0	0	0	0
7/1	JWR	AM	FB	0	0	0	75	0	0
7/1			PH1	0	0	0	0	0	0
7/1			PH2	0	0	1	0	0	0
7/1			SW1	0	0	0	0	0	0
7/1			SW2	0	0	3	0	0	0
7/1			SW3	9	25	1	0	0	0
7/1			SW4	36	0	0	0	0	0
7/2	JWR	PM	FB	0	0	3	80	0	0
7/2			PH1	0	0	2	0	0	0
7/2			PH2	0	0	1	0	0	0
7/2			SW1	0	0	0	0	0	0
7/2			SW2	0	0	2	0	0	0
7/2			SW3	22	14	0	0	0	0
7/2			SW4	26	0	5	77	0	0

Counts

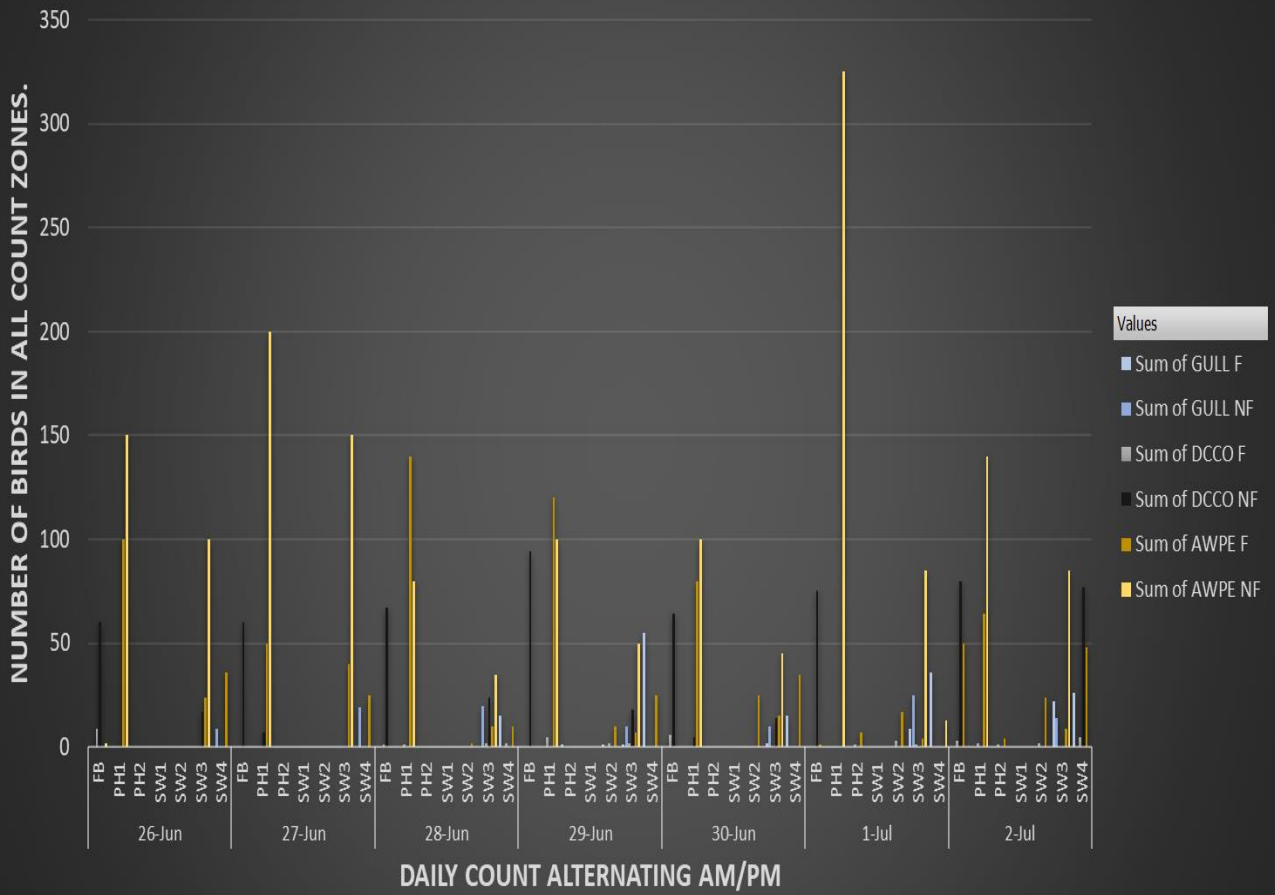
Bringing

Grebe F	Grebe NF	AWPE F	AWPE NF	OtherF	OtherNF	Total
0	0	0	2	0	0	71
0	0	100	150	0	0	250
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	24	100	0	0	141
0	0	36	0	0	0	45
0	0	0	0	0	0	60
0	0	50	200	0	0	257
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	40	150	0	0	190
0	0	25	0	0	0	44
0	0	0	0	3	0	71
0	0	140	80	0	0	221
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	2	0	1	0	3
0	0	10	35	0	0	91
0	0	10	0	0	0	27
0	0	0	0	0	0	94
0	0	120	100	0	0	225
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	10	0	0	0	13
0	0	7	50	0	0	88
0	0	25	0	0	0	80
0	0	0	0	0	0	70
0	0	80	100	0	0	185
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	25	0	0	0	25
0	0	15	45	0	0	86
0	0	35	0	0	0	50
1	0	1	0	0	0	77
0	0	0	325	0	0	325
0	0	7	0	0	0	8
0	0	0	0	0	0	0
0	0	17	0	0	0	20
0	0	4	85	0	0	124
0	0	0	13	0	0	49
0	0	50	0	0	0	133
0	0	64	140	0	0	206
0	0	4	0	0	0	5
0	0	0	0	0	0	0
0	0	24	0	0	0	26
0	0	9	85	0	0	130
0	0	48	0	0	0	156

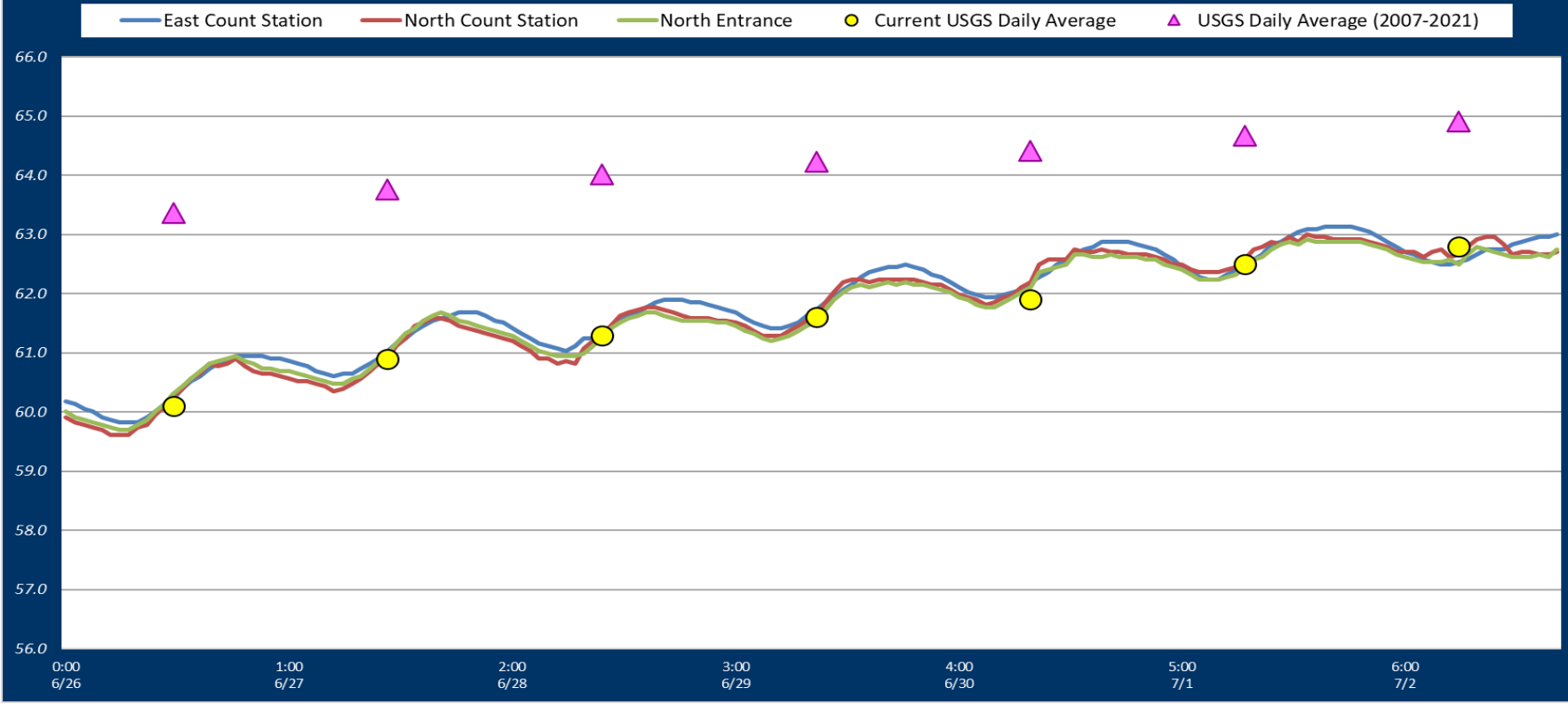
TDA Daily Mean # of GULLS by Week, April to July 2020 and 2021, 2022 Compared to Previous 7 years Daily Mean.



Daily Counts at The Dalles Dam from 6/26 to 7/2/2022



Adult Fish Ladders-River Temperatures



Secchi:		USGS°F
2.5	Sun	60.1
2.5	Mon	60.9
3.0	Tue	61.3
3.0	Wed	61.6
3.0	Thurs	61.9
4.0	Fri	62.5
5.0	Sat	62.8
3.3	AVG	61.6

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
6/26	1.4	11.8	1.6	9.5	8.3	8.4	18.4	1.3	10.2	10.4	4.7	1.4	13.4	9.1
	1.4	11.8	1.5	9.8	8.2	8.3	18.7	1.4	10.4	10.6	4.9	1.5	73.0	8.6
6/27	1.3	11.9	1.7	10.6	7.8	7.8	18.4	1.4	9.8	10.0	4.7	1.4	13.9	8.7
	1.4	11.7	1.5	10.9	7.9	7.9	18.7	1.6	9.8	10.1	4.7	1.4	14.2	8.7
6/28	1.4	11.7	1.2	6.8	9.9	10.2	19.7	1.2	10.8	11.1	6.0	1.4	14.7	8.8
	1.4	11.7	1.4	6.1	9.5	9.9	19.1	1.4	9.8	10.0	5.3	1.3	14.5	8.3
6/29	1.2	12.8	1.5	5.3	11.7	12.5	18.2	1.4	10.3	10.1	4.4	1.3	11.4	10.7
	1.3	11.7	1.4	5.6	11.0	10.7	18.6	1.3	10.1	10.4	4.7	1.8	11.4	10.4
6/30	1.3	11.6	1.7	4.5	10.2	10.6	17.4	1.6	9.2	9.4	3.7	1.4	11.2	10.7
	1.3	11.4	1.4	5.6	11.0	10.7	18.6	1.3	10.0	10.2	4.5	1.5	11.4	10.8
7/1	1.3	11.4	1.6	7.0	8.7	9.1	17.8	1.6	9.5	9.7	4.0	1.3	12.2	11.6
	1.3	11.3	1.6	6.7	9.5	10.0	17.5	1.5	9.5	9.7	9.7	1.4	12.3	10.5
7/2	1.3	11.2	1.6	5.1	11.7	12.5	15.9	1.6	9.1	9.4	2.4	1.4	11.7	9.4
	1.3	11.2	1.6	5.0	11.8	12.7	15.8	1.6	8.9	9.3	2.2	1.5	11.5	9.2
AVG:	1.3	11.7	1.5	7.0	9.8	10.1	18.1	1.4	9.8	10.0	4.7	1.4	16.9	9.7

Fishways are inspected twice daily.

found out of criteria



Pelicans enjoying the area near east fishladder.