The Dalles Dam Fishway Status Report

04/05/20

Inspection Period: 3/29-4/4, 2020

THE DALLES DAM



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: Comments:	21 Temperature: Weekly Average Se	 °F 4.2
			NORTH FISHWAY	<u> </u>	
Exit differential	0	≤ 0.5'			
Count station differential	0	≤ 0.3'			
Weir crest depth	0	1.0' ± 0.1'			
Entrance differential	0	1.0' - 2.0'	Average for week = 1.3		
ntrance weir N1	0	depth (≥ 8')	Average for week = 8.3		
Entrance weir N2	0	Closed			
PUD Intake differential	0	≤ 0.5′	Differential problems likely related to FB index	damage.	
			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'			
53 Weir crest depth	0	1.1' ± 0.1'			
unction pool weir JP6	0	≤ 7.0′			
ast entrance differential	0	1.0' - 2.0'	Average for week = 4.6		
Entrance weir E1	0	No criteria	Average for week = 4.6		
Intrance weir E2	0	depth (≥ 8')	Average for week = 12.1		
Entrance weir E3	0	depth (≥ 8')	Average for week = 12.1		
Collection channel velocity	0	1.5 - 4 fps	3.09 fps Range: 3.58 fps MU21 -	2.21 fps MU15	
ransportation channel velocity	0	1.5 - 4 fps	2.44 fps	•	
North channel velocity	0	1.5 - 4 fps	2.79 fps 4/3/2020		
South channel velocity	0	1.5 - 4 fps			
Vest entrance differential	0	1.0' - 2.0'	Average for week = 1.5		
ntrance weir W1	0	depth (≥ 8')	Average for week = 10.6		
ntrance weir W2	0	depth (≥ 8')	Average for week = 10.6		
ntrance weir W3	0	No criteria			
South entrance differential	0	1.0' - 2.0'	Average for week = 1.5		 ·
Intrance weir S1	0	depth (≥ 8')	Average for week = 8.4		
Entrance weir S2	0	depth (≥ 8')	Average for week = 8.4		
			JUVENILE PASSAGE		
Sluicegate operation	0	Units 1, 8, 18			
Furbine trashrack drawdown	0		3/26/2020 checked		
Spill volume/pattern	0	None			
Γurbine Unit Priority	0	per FPP			
Gatewells	0		4/3/2020 DCCO carcass in MU1-1 gatewell, no	o fish mortality.	

OTHER ISSUES:

Fishway Operations

North and east fish ladders in full operation

Spillway closed

Sluiceway opened with open sluicegates 1-1,1-2,1-3,7-1,7-2,18-2.

Unit Outages

T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels MU1 and MU2 restricted to 160 MW combined through 5/28/2020 MU8 OOS 1/21/2020 - 5/17/2020 for Overhaul.

Maintenance

Calibration check 4/3/20; E1, out of calibration, no criteria.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Awaiting new pump motors for installation.

East fishway automation replacement installation possibly delayed due to COVID staff plan. PLC box assembly starting hopefully in April.

Spillway assessment (MRER); No funding for FY20. Spillgate 9 fish priority included.

COVID creating major challenges accomplishing maintenance tasks. Maintenance leaders are working on plans to still accomplish as much as possible in safe manner.

Predators

Green laser use for piscivorous bird hazing testing on hold until all safety concerns are addressed. Refer to Avian zones tab.

USDA hazing resumes 4/15/20. Preseason planning meeting completed.

No sea lion observations this week.

Research/Construction/Contractors

Four Peaks fish counting started Apr1.

AWS backup - Commissioning completed. Ready for operation if needed.

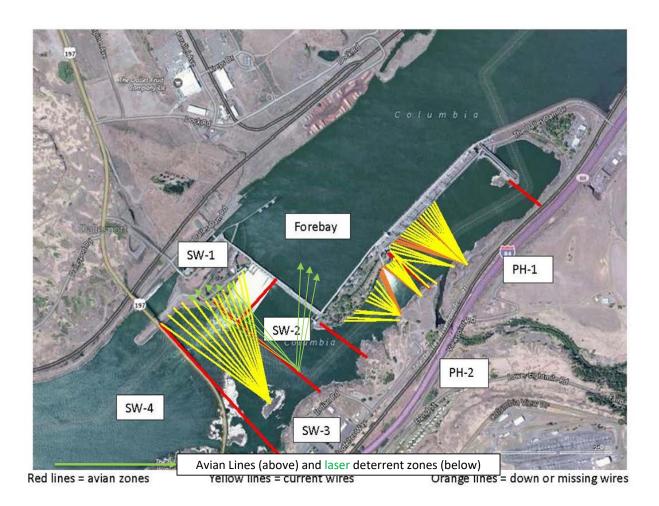
PITAGS north and east fishladder data collection at count stations continues.

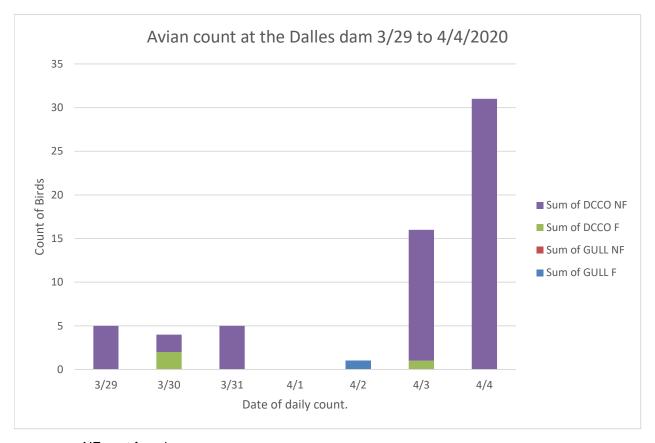
Dam angling resumes in May. Bass/Walleye release due to state classification of game species.

Fish unit breaker replace.- Completed.

Fish unit rehab - Phase 1A. Planning operation scenario with AWS backup water supply during construction. No funding.

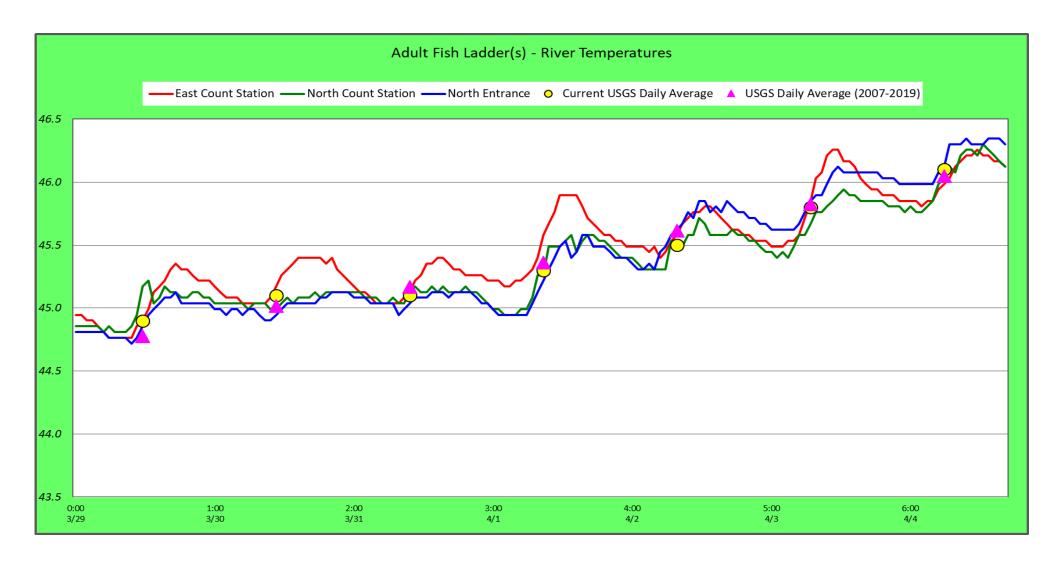
Approved by: Mike Colesar, Operation Project Manager, The Dalles Dam





NF= not foraging F= foraging DCCO= cormorant Gull= gull

20 + DCCO present on nests at this time!



_			USGS:
	Secchi:		°F
3/29	4.5	Sun	44.9
3/30	5.0	Mon	45.1
3/31	4.5	Tue	45.1
4/1	4.0	Wed	45.3
4/2	4.0	Thurs	45.5
4/3	3.5	Fri	45.8
4/4	4.0	Sat	46.1
	12	AVG	45.4

March Temps

The Dalles Dam Daily Readings and Averages for Temperatures, Secchi, Entrances, and Spill

SCADA INSPECTION out of criteria

	North Ladder		East Ladder											
Date:		auuei	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
3/29			4.0	4.0	11.9	11.9	10.1	1.4	10.6	10.6	Closed	1.4	8.3	8.4
	1.3	8.9	4.0	4.0	11.9	11.9	10.3	1.5	10.5	10.5		1.5	8.4	8.4
	1.3	9.1	4.0	4.0	12.1	12.1	10.3	1.5	10.6	10.6		1.4	8.3	8.4
3/30					12.0	12.0	10.1	1.4	10.4	10.4		1.5	8.2	8.3
	1.4	9.0	4.5	4.5	12.6	12.6	11.7	1.5	10.5	10.5		1.6	8.2	8.4
	1.3	9.1	3.9	3.9	12.0	11.9	10.1	1.5	10.4	10.4		1.5	8.2	8.2
3/31			3.9	3.9	12.0	11.9	11.6	1.6	10.5	10.5		1.7	8.2	8.3
	1.4	8.9	4.1	4.1	12.7	12.6	11.1	1.6	11.0	11.0		1.5	8.6	8.5
	0.0	0.0	4.1	4.1	12.6	12.5	10.3	1.4	10.7	10.6		1.3	8.6	8.5
4/1			4.1	4.1	12.0	12.0	11.2	1.6	10.7	10.7		1.6	8.5	8.5
	1.3	9.0	5.5	5.5	12.1	12.1	11.1	1.5	10.6	10.6		1.5	8.5	8.5
	1.4	8.9	5.5	5.5	12.0	12.0	11.7	1.4	10.7	10.7		1.4	8.5	8.5
4/2			5.9	5.9	12.0	12.0	12.0	1.7	10.7	10.7		1.5	8.5	8.5
	1.4	8.8	5.9	5.9	12.0	12.0	12.0	1.5	11.0	11.0		1.5	8.5	8.5
	1.4	9.0	6.0	6.0	12.1	12.1	11.6	1.5	11.0	11.0		1.5	8.4	8.4
4/3			6.1	6.1	12.1	12.1	10.9	1.2	11.1	11.1		1.4	8.5	8.5
	1.4	8.9	4.0	4.0	12.0	12.0	10.8	1.6	10.2	10.2		1.5	8.4	8.4
	1.3	9.0	3.9	3.9	12.0	11.9	10.4	1.5	10.4	10.4		1.5	8.4	8.4
4/4			4.0	4.0	12.1	12.1	9.8	1.4	10.3	10.3		1.4	8.5	8.5
	1.3	9.0	4.1	4.1	12.0	12.0	10.7	1.5	10.3	10.3		1.5	8.5	8.5
	1.3	8.9	4.0	4.0	12.0	11.9	9.9	1.4	10.3	10.3		1.4	8.5	8.5
AVG:	1.3	8.3	4.6	4.6	12.1	12.1	10.8	1.5	10.6	10.6		1.5	8.4	8.4

Fishways are inspected once daily plus one SCADA inspection.