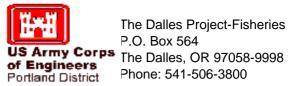
FISHWAY STATUS REPORT

Date: 5/26/2013 Inspection Period: 5/19-25/2013

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564

Fishways are inspected twice da	ily. Additional da	aily monitoring	done via automation system in fisheries office.
The Dalles Dam	Inspections	Criteria	Total Number of Inspections: 18 Temperature: 56.5 F
	Out of Criteria	Limit	Comments Secchi: 4.2 Ft.
NORTH FISHWAY			
Exit differential	0	≤ 0.5′	
Count station differential	0	≤ 0.3′	
Weir crest depth	0	1.0' ± 0.1'	Out of criteria at 0.8'
Entrance differential	0	1.0' - 2.0'	Average 1.3 Daily differentials & weir depths, see AVGS tab.
Entrance weir N1	0	depth (≥ 8')	Average 9.9
Entrance weir N2		Closed	Bulkhead installed
PUD Intake differential	0	≤ 0.5′	
EAST FISHWAY			
Exit differential	0	≤ 0.5′	
Removable weirs 154-157	0	Per forebay	Auto adjusts 1' increments.
Weir 158-159 differential	0	1.0' ± 0.1'	
Count station differential	0	≤ 0.3′	
Weir crest depth	0	1.0' ± 0.1'	Depth over weir changed from 1.0' to 1.3' due to shad passage > 5000/day May 18.
Junction pool weir JP6	0	depth (≥ 7')	Manually adjusted as needed.
East entrance differential	0	1.0' - 2.0'	Average 1.5 Daily differentials & weir depths, see AVGS tab.
Entrance weir E1	0	No criteria	Average 4.4 Manually adjusted.
Entrance weir E2	0	depth (≥ 8')	Average 13.3
Entrance weir E3	0	depth (≥ 8')	Average 13.3
Collection channel velocity	0	1.5 - 4 fps	
Transportation channel velocity	0	1.5 - 4 fps	Average 2.0
North channel velocity	0	1.5 - 4 fps	
South channel velocity	0	1.5 - 4 fps	Average 2.2
West entrance differential	0	1.0' - 2.0'	Average 1.5
Entrance weir W1	0	depth (≥ 8')	
Entrance weir W2	0	depth (≥ 8')	
Entrance weir W3	0	No criteria	
South entrance differential	0		Average 0.0 Daily differentials & weir depths, see AVGS tab.
Entrance weir S1	0	depth (≥ 8')	Average 9.6 Manually adjusted.
Entrance weir S2	0	depth (≥ 8')	Average 9.7
JUVENILE PASSAGE			
Sluicegate operation	0	units 1,8,18	
Turbine trashrack drawdown	0	<1.5', wkly	Range: 0.4 to 0.8'.
Spill volume	10	40%, 24hr	Gas cap restrictions per teletype guidance
Spill Pattern	0	per FPP	
Turbine Unit Priority	0	per FPP	
Turbine 1% Efficiency	0	per FPP	

OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected twice daily. Gull numbers high downstream of bridge. New avian zone (SW-T5) created due to high numbers of gulls resting, flyby, and foraging below SW-T4, downstream from the green coast guard marker to the islands. See avian zones map and distribution tabs. Boat hazer's from John Day were borrowed for two days due to high numbers of gulls downstream of bridge, but there was a noticeable increase at John Day immediately afterwards. There was one sea lion sightings during this week.

New avian line pole installed to replace failing east powerhouse pole. One of 14 lines lost in process. No loss of effectiveness expected.

Operations:

Current Outages:

Main Unit 15, 16, and T8 forced out of service due to transformer oil issues. Return to service ~ Aug 8.

Main Unit 6 out of service Apr 22 to May 5 for digital governor install and annual maintenance.

Main Unit 21 out of service Apr 29 to June 20 for five year overhaul, as builts, gen heat, heat exch and cavitation.

Main Unit 11 out of service May 13 to June 22 for digital governor installation and annual maintenance.

Gatewell drawdown was completed on 5/10/13. All values were within the 1.5' criteria and ranged from 0.4-0.8'.

Calibration check completed on 5/16/13. All values within criteria.

The east and north fishways, sluiceway, and spillways are in operation for fish passage in accordance to the Fish Passage Plan (FPP).

Maintenance:

Work postponed on west entrance W2 weir wheel replacement due to budget constraints. All west entrance weirs remain operable.

PUD trashrack rake out of service for hydraulic line failure. Maintenance dissassembling to assess repair cost. Mobile crane used in the meantime.

Oil Accountability and Leak Protocols on the fishway equipment being reviewed. Assessing leak/repair plans for several weirs gearboxes.

Fish unit F1 taken off line 0500-0600hr on 5/22 to repair sensor probe. Increased discharge on F2 during that time.

Studies:

PIT - Temporary Thin Wall PIT tag Antenna continues to work successfully. Plans to replace all aluminum paneling over north count station to correct the noticable minor interference. Walls being constructed by project around north PIT computer room to protect equipement better.

EFL - Team evaluating if fishlock valve room rehab to be included with the main construction of the of the 10' intake pipe.

PUD - Freedom turbine planning underway. Project support as needed. Reviewing PUD/COE memo of understanding.

Lamprey - Unit 11 cooling water strainer dissassembled. Five junveile lamprey mortalities found. Saved for future lab work if needed.

Lamprey Improvements PDT developing weir orifice floor plating in lower ladders to improve lamprey passage through high velocity areas.

Research/Contractors:

ODFW and Pacific States Marine Fisheries Commission collecting gut samples of pikeminnow from dam anglers through August.

Columbia River Northern Pikeminnow Management Program WDFW Dam Angling started May 1. Catch rates steadily increasing.

Normandeau digital video fish counting at count stations to occur June 15 - Sept 30 from 2000 hrs to 0400 hrs.

Yakama and Umatilla tribes to collect lamprey via traps from count stations starting mid June for restocking efforts. Coordination underway.

Pacific States Marine Fisheries Commission fish sampling of the PUD juvenile bypass. Refer to PSMFC weekly report #13-7 for results.

Project maintenance to remove I-beams at forebay pier noses. Date to be determined. Awaiting CRFM funding.

University of Idaho adult radio telemetry new antennas both fish ladders completed and operating. Two new electrical outlets to be installed by project.

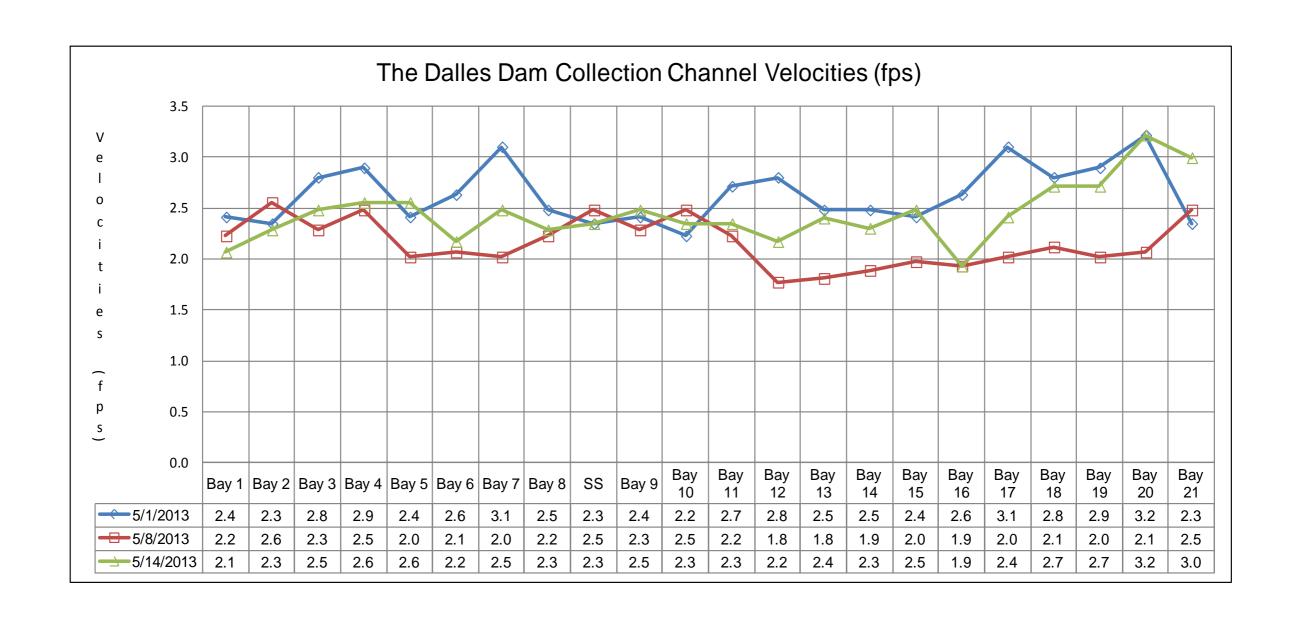
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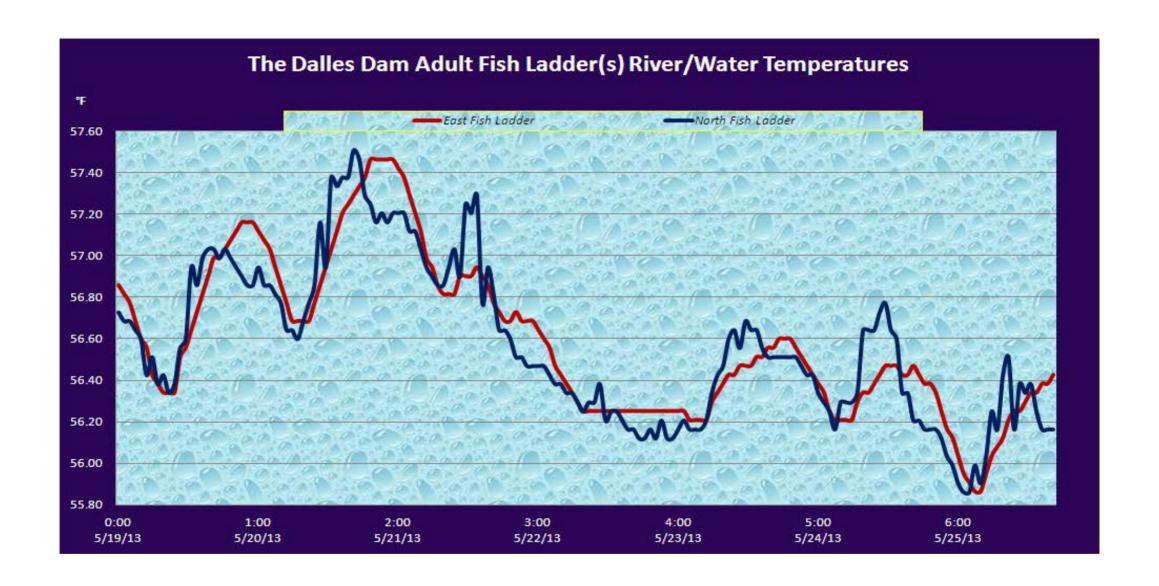
Ron D. Twiner

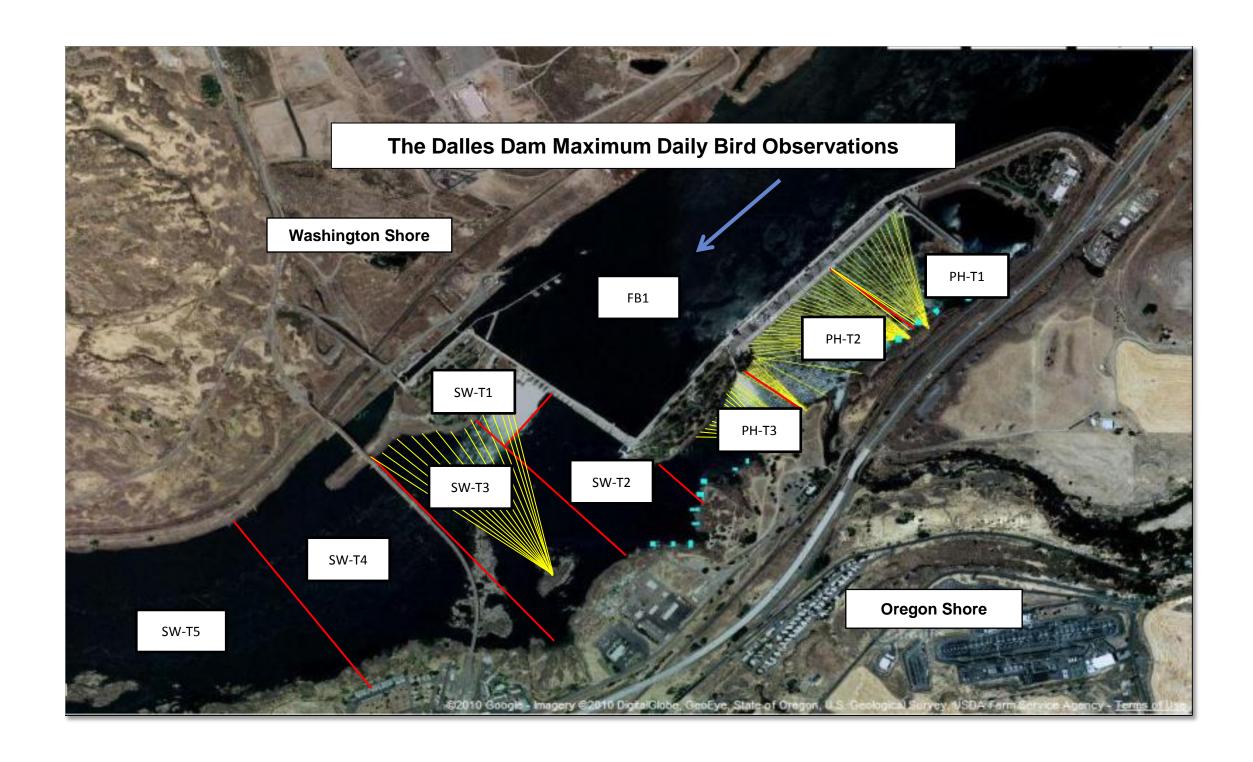
Operation Project Manager

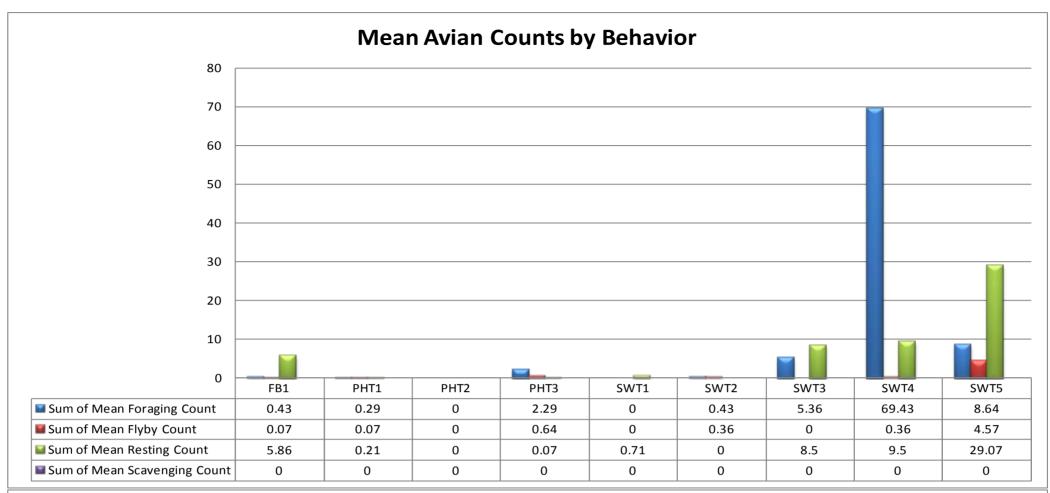
The Dalles Dam

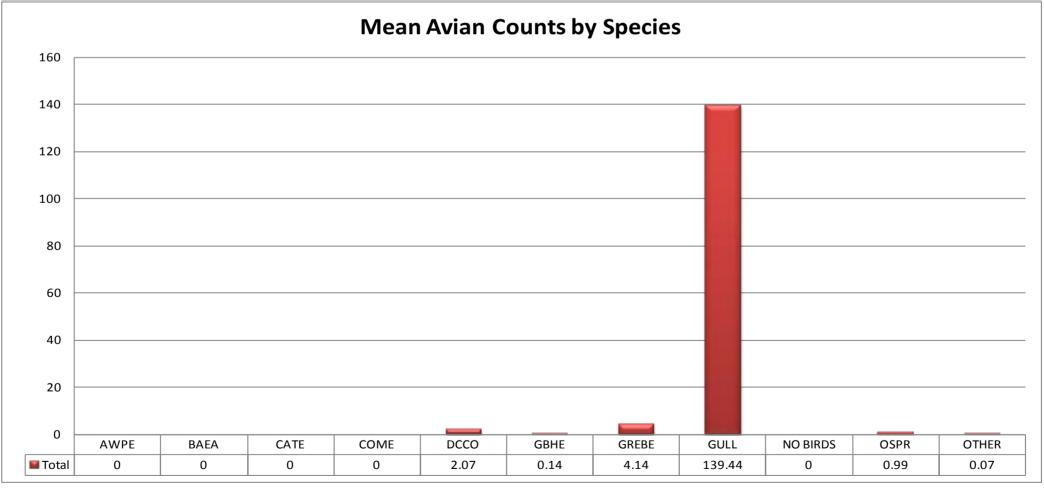
The Dalles Dam Fish Counts																			
	East	North	East	North	East	North	East	North	East	North	East	North	East	North	East	North	East	North	Spill
Date	Chinook	Chinook	Chinook	Chinook			Unclipped	Unclipped					Coho	Coho					Volume
	Adult	Adult	Jack	Jack	Sthd	Sthd	Sthd	Sthd	Sock	Sock	Coho	Coho	Jack	Jack	Lamprey	Lamprey	Pink	Pink	KCFS
19-May	720	182	679	10	4	0	2	0	0	0	0	0	0	0	0	0	0	0	116.89
20-May	918	145	745	5	6	0	1	0	0	0	0	0	0	0	0	0	0	0	117.09
21-May	773	348	616	10	7	0	1	0	0	0	0	0	0	0	0	0	0	0	108.97
22-May	565	287	534	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105.42
23-May	834	143	593	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	118.76
24-May	625	170	454	8	10	0	0	0	0	0	0	0	0	0	0	0	0	0	110.56
25-May	526	241	377	10	7	0	-1	0	0	0	0	0	0	0	0	0	0	0	110.07
Wkly Tot	4961	1516	3998	91	44	0	3	0	0	0	0	0	0	0	0	0	0	0	spill avg
% Split	76.6%	23.4%	97.8%	2.2%	100.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	112.54











AWPE - American White Pelican; BAEA - Bald Eagle; CATE - Caspian Tern; COME - Common Merganser; DCCO - double crested cormorant; GBHE - Great Blue Heron; GREBE - Grebe; Gull- Gull (all species); OSPR - Osprey

Temp:	_	Secchi:				
56.7	SUN	3.0				
57.0	MON	4.0				
57.0	TUES	4.5				
56.4	WED	4.5				
56.3	THUR	4.5				
56.3	FRI	4.5				
56.1	SAT	4.5				
56.5	AVG:	4.2				

AVG:

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

	North Fis	h Ladder	East Fish Ladder												
	North E	ntrance		Ea	st Entranc	е			West En	trance		Sol	uth Entrand	ce	
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
5/19/13	1.3	9.9	1.7	9.0	14.1	14.0	15.4	1.4	11.5	11.6		1.5	8.5	8.6	36.7
5/19/13															
5/19/13			1.6	8.9	13.4	13.5	14.7	1.5	10.4	10.4		1.6	8.3	8.3	
5/20/13	1.3	9.9	1.6	5.0	13.0	12.8	14.4	1.5	10.9	10.9		1.5	10.0	10.0	40.2
5/20/13	1.3	9.8	1.6	5.0	13.0	13.0	14.2	1.4	11.0	11.0		1.5	9.9	9.9	40.5
5/20/13			1.6	4.9	12.9	12.9	14.5	1.7	10.5	10.5		1.7	9.5	9.4	
5/21/13	1.4	9.8	1.5	5.1	13.1	13.1	14.8	1.6	10.6	10.5		1.4	10.1	10.1	40.1
5/21/13	1.3	9.9	1.6	5.1	13.1	13.1	13.9	1.5	10.6	10.5		1.4	10.0	10.1	40.6
5/21/13	3		1.5	4.9	12.9	12.9	14.8	1.5	10.6	10.5		1.5	10.1	10.1	
5/22/13	1.4	9.9	1.0	4.9	12.9	13.0	12.4	1.2	9.9	9.9		1.5	9.0	9.0	38.9
5/22/13	1.3	9.8	1.8	0.1	13.0	13.0	13.8	1.8	10.0	10.1		1.8	8.9	9.0	39.3
5/22/13			1.5	4.8	12.9	12.9	13	1.6	10.3	10.2		1.7	9.7	9.7	
5/23/13	1.4	9.8	1.5	3.2	13.5	13.5	14.1	1.3	11.0	11.0		1.4	10.0	10.1	39.8
5/23/13	1.3	9.9	1.5	3.1	13.6	13.6	14.6	1.4	11.1	11.1		1.6	9.9	10.0	40.6
5/23/13															
5/24/13	1.4	9.8	1.6	3.2	13.6	13.7	14	1.5	11.0	11.0		1.4	10.1	10.1	39.8
5/24/13	1.3	9.9	1.3	3.1	13.5	13.6	13.5	1.3	11.0	11.0		1.3	10.1	10.1	39.8
5/24/13			1.5	3.0	13.4	13.5	13.8	1.4	10.9	10.9		1.5	10.0	10.0	
5/25/13	1.4	9.8	1.5	3.0	13.5	13.5	13.3	1.5	10.2	10.2		1.4	9.8	9.8	40.3
5/25/13	1.4	9.9	1.5	3.0	13.5	13.5	13.5	1.4	10.4	10.2		1.5	9.7	9.7	39.3
5/25/13															
AVG:	1.3	9.9	1.5	4.4	13.3	13.3	14.0	1.5	10.7	10.6	#DIV/0!	1.5	9.6	9.7	39.7

Third fish way inspection for east fish ladder, east, west, and south entrances completed via automation system in fisheries office.