

FISHWAY STATUS REPORT

Date: 02/24/13
 Inspection Period: 02/17-02/23/2013

THE DALLES DAM



**US Army Corps
 of Engineers**
 Portland District

The Dalles Project-Fisheries
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Fishways are inspected once daily.

The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	5	Temperature:	40.0	F
	Out of Criteria	Limit	Comments		Secchi:	5.0	Ft.
NORTH FISHWAY			Fishladder dewatered on Feb 4. ETR Mar 11.				
Exit differential							
Count station differential							
Weir crest depth							
Entrance differential							
Entrance weir N1							
Entrance weir N2							
PUD Intake differential							
EAST FISHWAY							
Exit differential	0	≤ 0.5'					
Removable weirs 154-157	0	Per forebay					
Weir 158-159 differential	0	1.0' ± 0.1'					
Count station differential	0	≤ 0.3'					
Weir crest depth	0	1.0' ± 0.1'					
Junction pool weir JP6	0	depth (≥ 7')	AVG	9			
East entrance differential	0	1.0' - 2.0'	AVG	1.6			
Entrance weir E1	0	No criteria	AVG	4.9			
Entrance weir E2	0	depth (≥ 8')	AVG	8.9			
Entrance weir E3	0	depth (≥ 8')	AVG	9.1			
Collection channel velocity	0	1.5 - 4 fps					
Transportation channel velocity	0	1.5 - 4 fps					
North channel velocity		1.5 - 4 fps	North ladder is out of service.				
South channel velocity	0	1.5 - 4 fps					
West entrance differential	2	1.0' - 2.0'	AVG	1.2	West entrance differential low, investigating cause		
Entrance weir W1		Closed	Bulkhead installed due to seized wheel on weir				
Entrance weir W2	0	depth (≥ 8')	AVG	8.2			
Entrance weir W3	0	depth (≥ 8')	AVG	8.2			
South entrance differential	0	1.0' - 2.0'	AVG	1.3			
Entrance weir S1	1	depth (≥ 8')	AVG	8.4	Feb 23 S1@ 7.9' SCADA inspection		
Entrance weir S2	0	depth (≥ 8')	AVG	8.4			
JUVENILE PASSAGE							
Sluiceway operation		units 1,8,18					
Turbine trashrack drawdown		<1.5', wkly					
Spill volume		40%, 24hr					
Spill Pattern		per FPP					
Turbine Unit Priority		per FPP					
Turbine 1% Efficiency		per FPP					

OTHER ISSUES:**THE DALLES****Birds/Sea Lions:**

Fisheries personnel conducts bird observations once per day. See Avian tab for more observation results.

Second year of the Bald Eagle study underway to determine avian line interaction. Only couple eagles remaining. Observations continue through Feb.

Operations:

The north ladder is out of service through Mar 11 due to PIT antenna installation delay. Maintenance and vegetation removal complete.

Ice/Trash Sluiceway out of service, end gate closed. Return to 4 sluiceway and endgate open Mar 1.

Maintenance:

North fishladder vegetation removal complete. North fishway PMs complete. ROV inspection of north entrance grating complete, all grating intact.

ROV inspection of north entrance bulkhead showed small amount of rock debris on outside bulkhead sill.

All turbine intakes inspected for debris by divers during the hydroacoustic equipment removal on all 22 trashracks.

Current Outages:

Transformer 8 forced out of service due to transformer oil problems. ETR Jun 6.

North ladder out of service. Return to service Mar 11.

Main Unit 3 out of service Jan 28 to Mar 7 for digital governor install and annual maintenance.

Main Unit 2 out of service Feb 11 to Mar 28 for digital governor install and annual maintenance.

Studies:

PIT antenna installation by PSMFC ongoing. Problems with creating a dry work area due to bulkhead leakage. Sandbags and pumps to be used.

Permanent PIT antenna study DDR underway. Project supporting as needed.

East Fish Ladder backup study DDR continues. Project supporting as needed.

PUD freedom turbine planning underway. Project supporting as needed.

Research/Contractors:

USGS dive removed derelict gear will be removed from the powerhouse deck week of Mar 4.

Project maintenance to remove 45' I-beams at Main Unit 1, 5, and 19 forebay pier noses Date to be determined.

The University of Idaho's adult radio telemetry planning for new antennae placement throughout both fish ladders is underway.

Normandau cameras inside count stations currently on and recording.

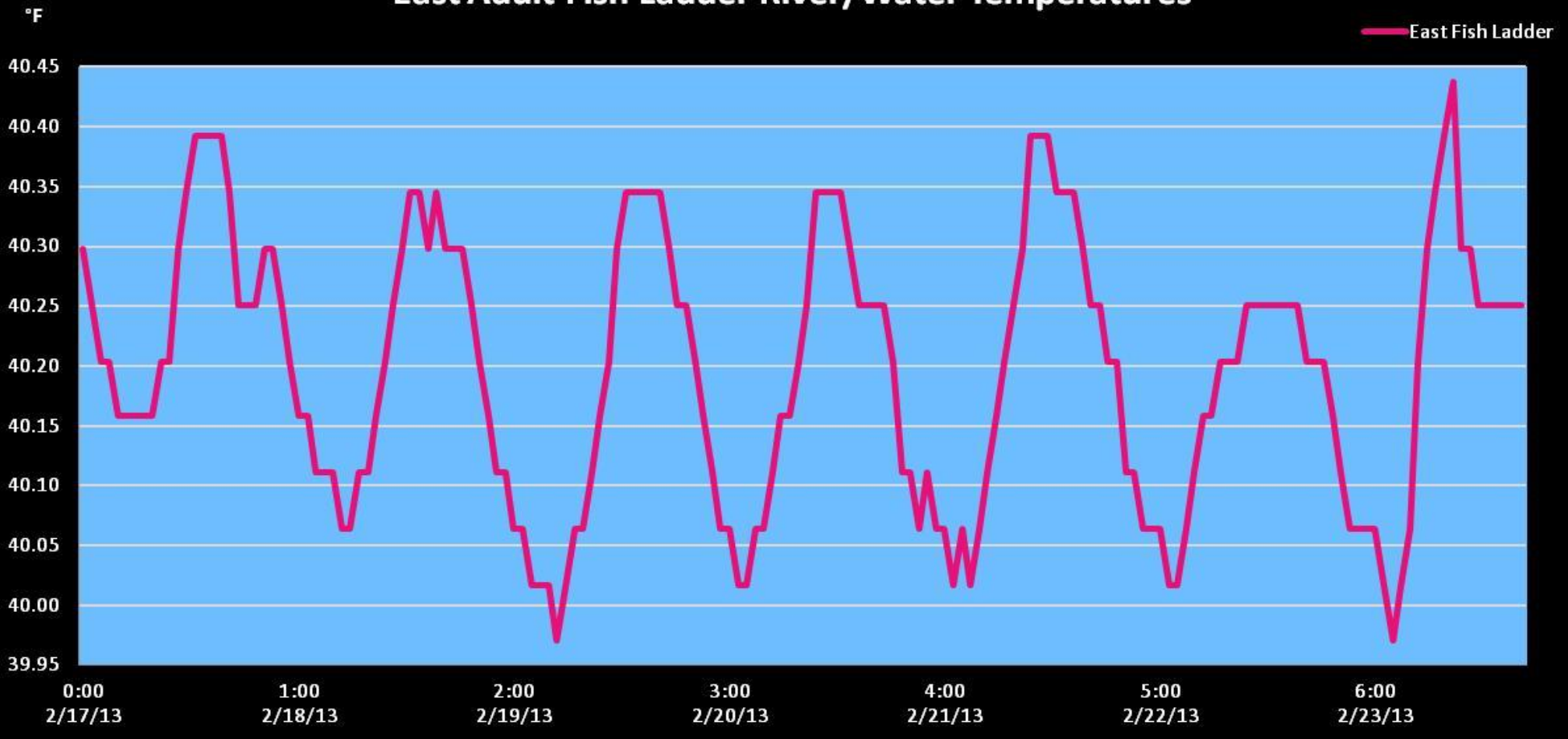
Approved by;
Ron D. Twiner
Operation Project Manager
The Dalles Dam

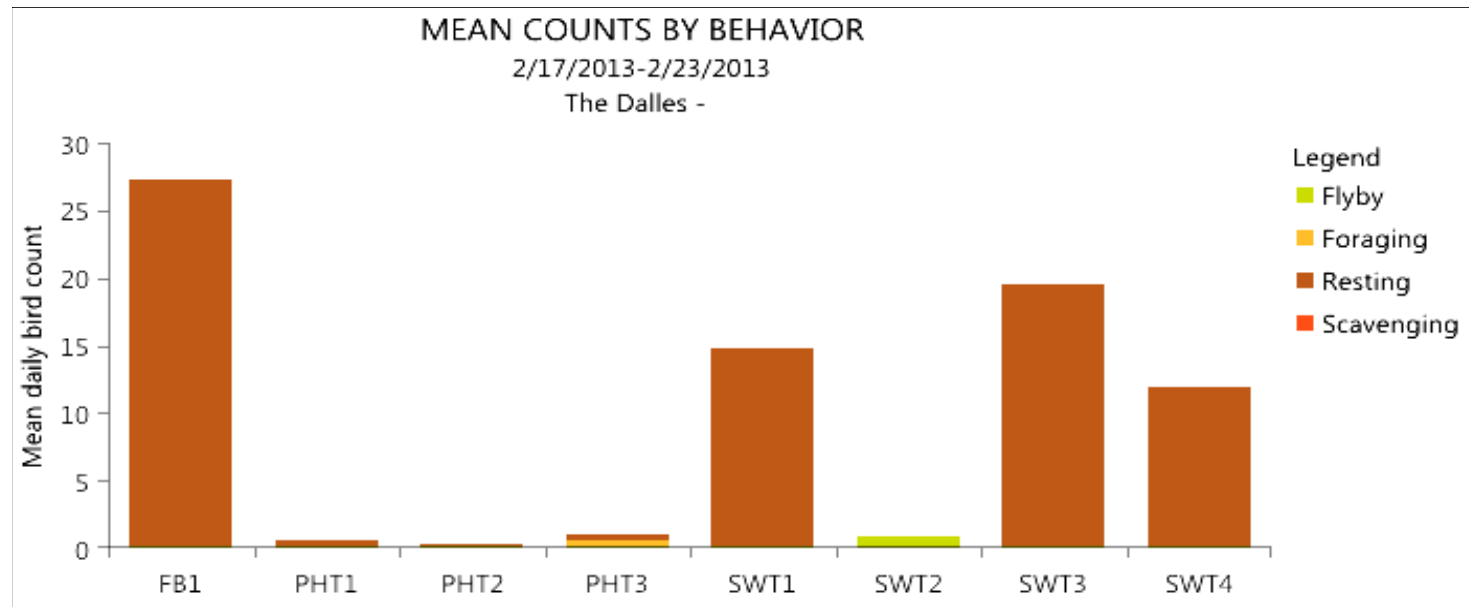
The Dalles Dam Video Fish Counts

Date	East Ladder Only North ladder dewatered								Spill
	Chinook-Adult	Jack Chinook	Sthd-Total	Sthd-Unclipped	Sock	Coho	Coho Jack	Lamprey	Volume
2/17/13	no data available								o n s e a l
2/18/13									
2/19/13									
2/20/13									
2/21/13									
2/22/13									
2/23/13									
Wkly Tot	0	0	0	0	0	0	0	0	



East Adult Fish Ladder River/Water Temperatures

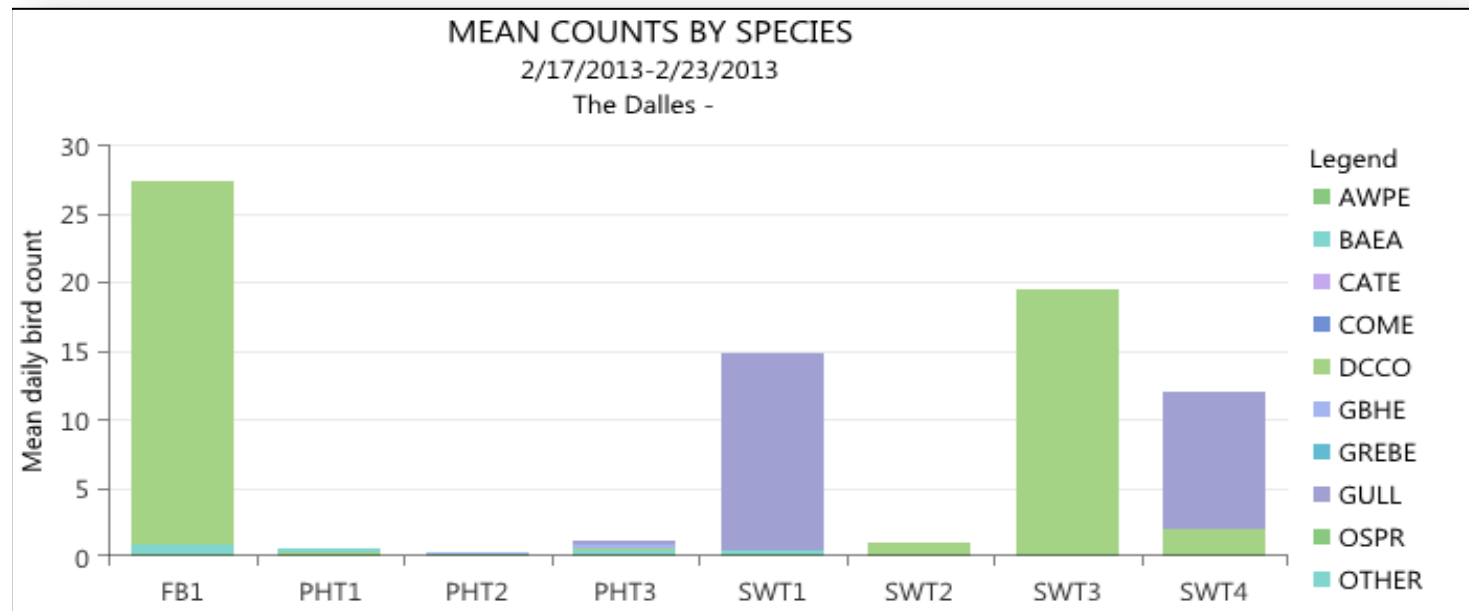




American White Pelican - (AWPE); Bald Eagle - (BAEA); Caspian Tern - (CATE); Common Merganser - (COME)

Double Crested Cormorant - (DCCO); Great Blue Heron - (GBHE); Grebe - (GREBE);

Gull - all species (GULL); Osprey (Ospr)



The Dalles Dam Maximum Daily Bird Observations

Washington Shore

FB1

PH-T1

PH-T2

SW-T1

PH-T3

SW-T2

SW-T3

SW-T4

Oregon Shore



=scada insp

Temp:	40.1	SUN	Secchi:	5.0
	40.0	MON		5.0
	40.0	TUES		5.0
	40.0	WED		5.0
	40.0	THUR		5.0
	40.0	FRI		5.0
	40.0	SAT		5.0
AVG:	40.0	AVG:		5.0

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

Date:	North Fish Ladder		East Fish Ladder											% Spill				
	North Entrance		East Entrance					West Entrance			South Entrance							
	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth				
2/17/13		N o r t h L a d d e r O S	1.4	6.5	9.4	9.5	11.0	1.1	C L O S E D	8.0	8.0	1.6	8.0	8.0				
2/18/13			1.5	6.4	9.4	9.4	10.5	1.0		8.0	8.0	1.5	8.0	8.0				
2/19/13			1.1	E 1 c l o s e d	11.8	12.1	10.8	1.0		8.0	8.0	1.5	8.0	8.0				
2/20/13			1.6		11.0	11.0	11.6	1.2		8.1	8.1	1.6	8.1	8.1				
2/21/13			1.5		10.9	11.0	11.0	1.1		8.0	8.0	1.5	8.1	8.2				
2/21/13			1.5		11.7	11.8		1.2		8.2	8.2	1.6	8.0	8.0				
2/22/13			1.5		9.5	9.6	9.2	1.2		8.1	8.0	1.5	9.1	8.9				
2/22/13			1.5		11.0	10.9		1.1		8.1	8.1	1.5	8.1	8.2				
2/23/13			1.7		9.4	9.4	8.8	1.2		8.1	8.2	1.3	9.1	9.1				
2/23/13			1.6		9.4	9.5		1.2		8.2	8.1	1.8	7.9	8.0				
AVG:					1.6	#DIV/0!	10.3	10.4		9.7	1.2		8.1	8.1	1.5	8.4	8.4	