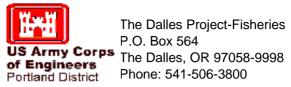
FISHWAY STATUS REPORT

Date: 6/3/2013

Inspection Period: 5/26 to 6/1/2013

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 fi	sheries office	Э.		
The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	: 21	Temperature:	56.5	F
	Out of Criteria	Limit	Comments		Secchi: 4.5	5 Ft.	
NORTH FISHWAY							
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 1.3	Daily differ	entials & weir dept	hs, 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	2	Per forebay	Auto adjusts 1' increments.	156 weir o	ut of criteria by 0.1	· .	
Weir 158-159 differential	0	1.0' ± 0.1'					
Count station differential	0	≤ 0.3′	Picketed leads raked and windo				
Weir crest depth	0	1.0' ± 0.1'	Depth over weir changed from 1	.0' to 1.3' du	e to shad passage	> 5000/day Ma	ay 18.
Junction pool weir JP6	0	depth (≥ 7')	Manually adjusted as needed.				
East entrance differential	0	1.0' - 2.0'	Average 1.5	Daily differ	entials & weir dept	hs, see AVGS	tab.
Entrance weir E1	0	No criteria	Average 1.6	Manually a	djusted.		
Entrance weir E2	0	depth (≥ 8')	Average 13.4				
Entrance weir E3	0	depth (≥ 8')	Average 13.3				
Collection channel velocity	0	1.5 - 4 fps	Average 2.8	See Veloc	ities tab for more	complete infor	mation.
Transportation channel velocity	0	1.5 - 4 fps	Average 2.6				
North channel velocity	0	1.5 - 4 fps	Average 2.4				
South channel velocity	0	1.5 - 4 fps	Average 3.3				
West entrance differential	0	1.0' - 2.0'	Average 1.5				
Entrance weir W1	0	depth (≥ 8')	Average 9.9				
Entrance weir W2	0		Average 9.8				
Entrance weir W3	0	No criteria	Average 0.3				
South entrance differential	0	1.0' - 2.0'	Average 1.5	Daily differ	entials & weir dept	hs, see AVGS	tab.
Entrance weir S1	0	depth (≥ 8')	Average 9.5	Manually a	ndjusted.		
Entrance weir S2	0	depth (≥ 8')	Average 9.5				
JUVENILE PASSAGE							
Sluicegate operation	0	units 1,8,18					
Turbine trashrack drawdown	0	<1.5', wkly	Range 0.0' - 0.6'				
Spill volume	0	40%, 24hr					
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. Primarily gulls, upstream and downstream of the bridge. Refer to map for details.

There were no sea lion sightings this week.

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 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 completed on 5/26/13. All values were within the 1.5' criteria and ranged from 0.0' to 0.6'.

Calibration check completed on 5/23/13. All values within criteria.

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

Maintenance:

Updating memo of understanding for PUD operation and maintenance. To be forwarded to District for approval.

ROV scheduled June 13 for inspection of intake trashracks Main Units 3, 8, 18 per Fish Passage Plan requirement and coordinated with BPA.

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 disassembling 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.

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 noticeable minor interference. Walls being constructed by Natural Resources around north PIT computer room to protect equipment.

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 - Collecting turbine cooling water strainer juvenile lamprey data as available when strainer is opened. No data this week.

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

Research/Contractors:

CRITFIC member tribes are planning on trapping adult lamprey for radio translocation, telemetry research, and/or brood stock at

the project. Unlike last year the Nez Perce are planning to join the CTUIR and Yakama Nation with trap operation as well.

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: Effort hours - 57.3, total NPM - 119, NPM ≥ 230 mm - 119, adult salmonids - 1, sturgeon - 2, game fish - 4, non-game fish - 1.

Fish counting continues with Normandeau staff. Spring Chinook passage steadily decreasing. Shad numbers substantially increasing with numbers higher (230K) than seen this time past several years.

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

Pacific States Marine Fisheries Commission fish sampling of the PUD juvenile bypass. Refer to PSMFC weekly report #13-8 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.

Approved by:

Ron D. Twiner

Operation Project Manager

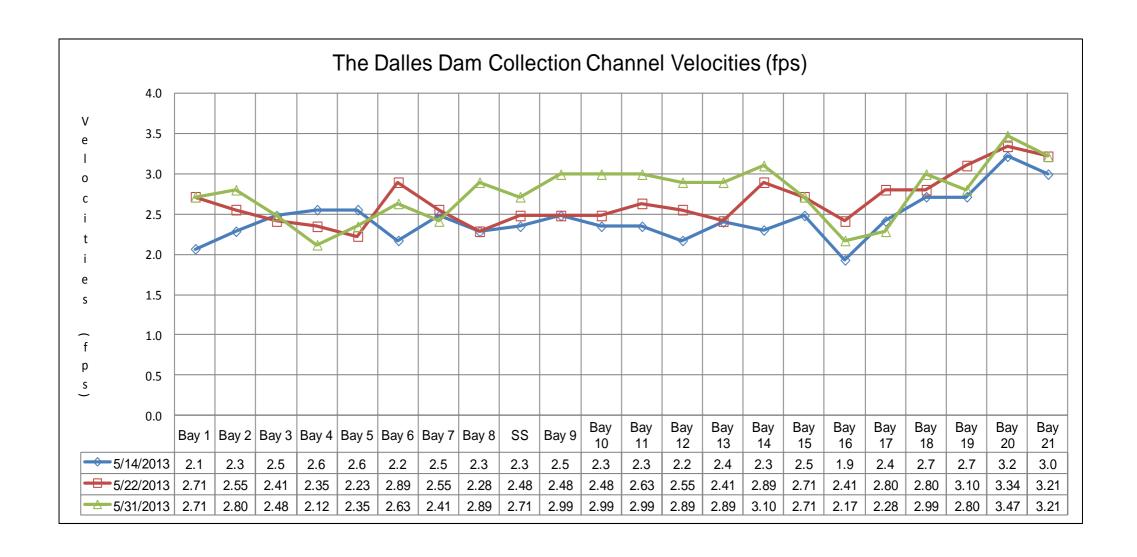
The Dalles Dam

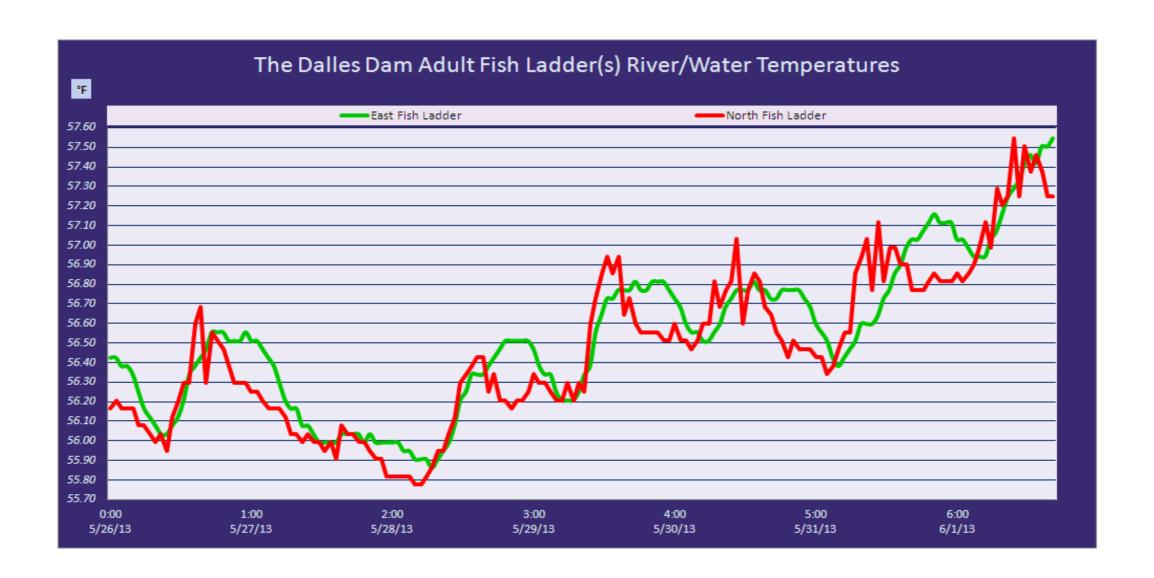
DART The Dalles Adult Ladders Daily Usage with Spill Percent and Outflow

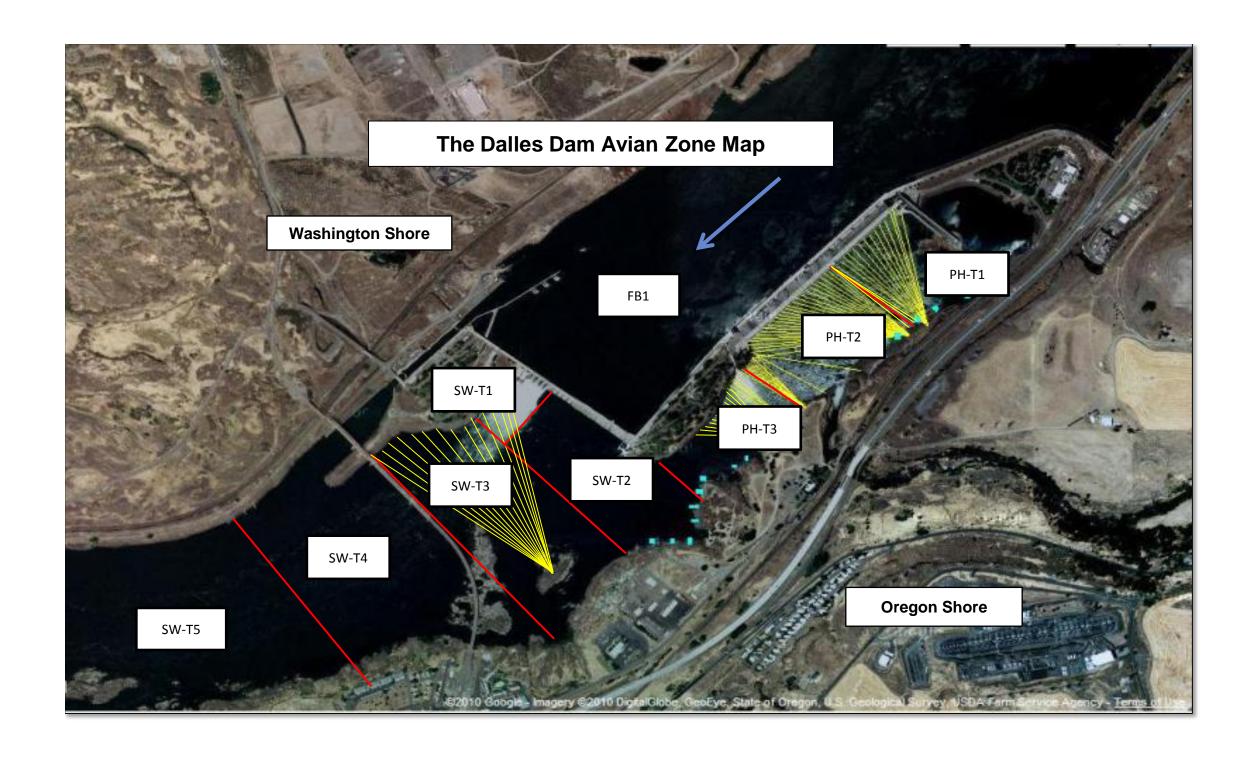
Chinook Jack Ch			ninool	k Steelhead Steelhead Wild Sockeye				Coho				Jack Coho)	Lamprey				Spill	Outflow													
Date	Left Ladder		Right			eft	Right		Left Ladder		Right Ladder		Le			Right Ladder		Left Ladder		Right Ladder		Left Ladder		Right		t	Right		Left		Right r Ladder		Pct	(kcfs)
	Lat	auei	La	Ladder Ladder Ladder Ladder Ladder Ladder		Jei	Ladder Ladder		Ladder Ladder		Ladder		Ladder		Ladder		Ladder		[Right]															
	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#		
5/23/13	85	834	15	143	98	593	2.1	13	100	10	0	0		0		0		0		0		0		0		0		0		0		0	40.0	296.9
5/24/13	79	625	21	170	98	454	1.7	8	100	10	0	0		0		0		0		0		0		0		0		0		0		0	39.9	277.1
5/25/13	69	526	31	241	97	377	2.6	10	100	7	0	0		<u>-1</u>		0		0		0		0		0		0		0		0		0	40.2	273.8
5/26/13	76	754	24	244	96	304	4.1	13	100	8	0	0	100	1	0	0		0		0		0		0		0		0		0		0	40.0	282.5
5/27/13	74	587	26	204	100	311	0	0	100	5	0	0	100	1	0	0	100	1	0	0		0		0		0		0		0		0	39.9	281.3
5/28/13	69	404	31	181	97	283	3.4	10	100	9	0	0	100	1	0	0	100	2	0	0		0		0		0		0		0		0	39.6	276.1
5/29/13	55	492	45	409	91	268	8.8	26	91	10	9.1	1	100	4	0	0	100	5	0	0		0		0		0		0		0		0	39.9	257.8
Weekly total		4222		1592		2590		80		5 9		1		6		0		8		0		0		0		0		0		0		0		
Date		Chir	nook		J	ack Cl	ninool	k	s	iteel	lhead		Steelhead Wild			Sockeye				Coho				Já	c Coho		'	Lam	nprey		Spill Pct	Outflow		
	L	eft	Ri	ght	L	eft	Rig	ght	Le	ft	Rig	ht	Le	ft	Rig	ht	Le	ft	Righ	nt	Le	eft	Righ	ıt	Lef	ŧ	Rigl	ht	Le	ft	Rig	ht		
YTD	Lac	dder	La	dder	Lac	dder	Lad	der	Lado	der	Lad	der	Lade	der	Lade	der	Lado	der	Ladd	er	Ladder Ladder		Ladder		Lado	Ladder Lad		der	der Ladde					
110	Р	ct	F	ct	P	ct	P	ct	Po	t	Po	et	Po	t	Po	t	Po	t	Pct	t	Р	ct	Pct		Pc	t	Pc	t	Po	et	Po	t		
	7:	2.6	2	7.4	ģ	97	3	3	98.	.3	1.	7	10	0	0		10	0	0		(0	0		0		0		0		0			

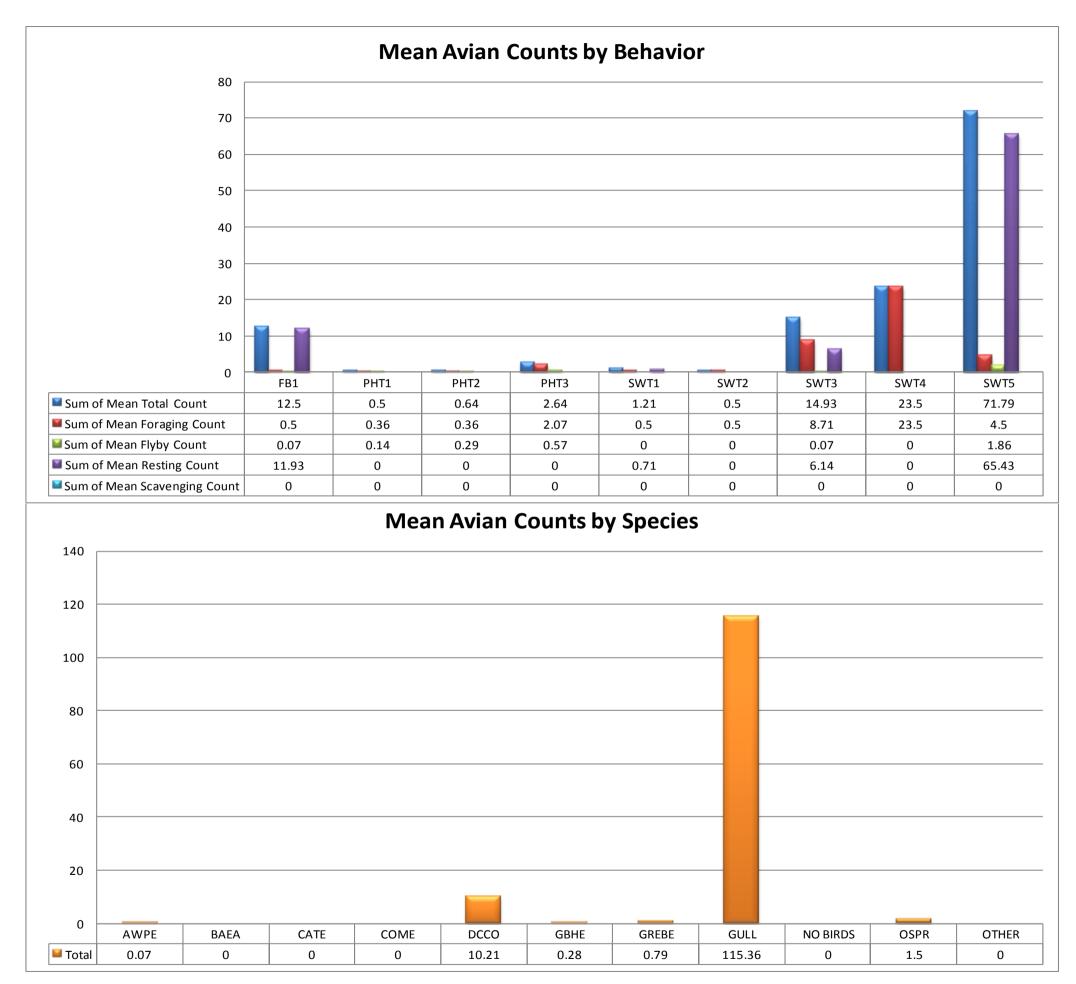
^{1.} The species passage percent is not calculated for either ladder on a day, if either the Ri

^{2.} Ladder orientations reference the side of the river w









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

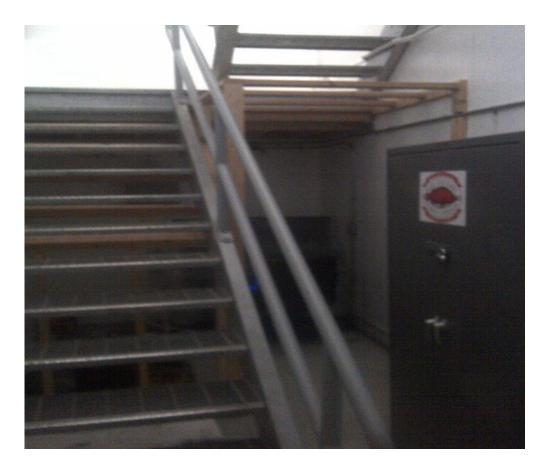
Temp:		Secchi:					
56.3	SUN	4.0					
56.1	MON	5.0					
56.1	TUES	5.0					
56.5	WED	4.0					
56.7	THUR	4.5					
56.7	FRI	5.0					
57.1	SAT	4.3					
56.5	AVG:	4.5					

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		So	KCFS		
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
5/26/13	1.4	9.8	1.6	3.1	13.5	13.6	14.3	1.5	10.7	10.4	1.4	1.5	9.7	9.7	39.6
5/26/13	1.4	9.8	1.6	2.9	13.4	13.5	14.0	1.6	10.6	10.3	1.1	1.5	9.7	9.7	40.0
5/26/13			1.5	3.0	13.6	13.5		1.5	10.4	10.1	1.3	1.5	9.8	9.8	
5/27/13	1.4	9.7	1.4	3.0	13.6	13.5	14.5	1.6	10.7	10.5	1.5	1.5	9.8	9.7	39.2
5/27/13	1.3	9.9	1.5	3.0	13.4	13.5	14.1	1.5	10.6	10.4	1.2	1.5	9.8	9.7	39.8
5/27/13			1.4	3.0	13.6	13.5		1.4	10.6	10.4	1.2	1.5	9.8	9.7	
5/28/13	1.4	9.9	1.4	4.9	13.4	13.4	13.1	1.4	9.9	10.0	0.4	1.4	9.8	9.7	39.3
5/28/13	1.4	9.8	1.5	4.0	13.6	13.5	13.1	1.6	9.5	9.4	0.8	1.6	9.0	9.1	39.7
5/28/13			1.6	3.1	13.5	13.6		1.4	10.5	10.4	0.0	1.4	9.8	9.7	
5/29/13	1.3	9.9	1.5	1.0	13.6	13.5	13.5	1.5	10.0	10.0	0.6	1.5	9.9	9.9	39.5
5/29/13	1.4	9.9	1.6	1.1	13.4	13.5	13.1	1.4	10.1	10.1	0.0	1.4	10.0	10.0	39.3
5/29/13			1.4	1.0	13.4	13.5		1.6	9.5	9.5	0.0	1.6	8.9	8.9	
5/30/13	1.3	9.9	1.5	-0.1	13.0	13.0	12.5	1.6	9.5	9.6	-0.3	1.5	9.2	9.2	40.0
5/30/13	1.3	9.9	1.6	0.0	13.4	13.4	13.1	1.6	9.6	9.5	0.4	1.5	9.5	9.5	39.9
5/30/13			1.5	0.2	12.6	12.7		1.6	8.6	8.6	0.0	1.6	8.7	8.7	
5/31/13	1.4	9.8	1.6	0.0	13.1	12.9	12.7	1.6	9.6	9.5	-0.1	1.5	9.5	9.6	40.0
5/31/13	1.3	9.9	1.4	0.0	13.5	13.4	12.9	1.5	9.9	10.0	-0.4	1.6	9.4	9.5	40.1
5/31/13			1.5	0.0	13.4	13.4		1.5	9.4	9.5	0.0	1.5	9.4	9.5	
6/1/13	1.2	9.9	1.5	0.0	13.1	12.9	11.5	1.4	9.4	9.5	-1.2	1.5	9.5	9.5	39.8
6/1/13	1.3	9.9	1.5	0.0	13.0	12.9	11.7	1.5	9.0	8.9	-1.0	1.5	9.6	9.6	39.6
6/1/13			1.4	0.0	13.4	13.4		1.3	10.0	9.9	0.0	1.5	9.4	9.4	
AVG:	1.3	9.9	1.5	1.6	13.4	13.3	13.2	1.5	9.9	9.8	0.3	1.5	9.5	9.5	39.7

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



Project resource maintenance starting installation of enclosure to protect north count station PIT antenna equipment.