

# The Dalles Dam Fishway Status Report

5/29/22

Inspection Period 5/22-5/28 2022

## THE DALLES DAM



US Army Corps  
of Engineers  
Portland District

The Dalles Project-Fisheries  
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<b>The Dalles Dam</b>	<b>Inspections OOC</b>	<b>Criteria Limit</b>	<b>Total Number of Inspections:</b> 14		<b>Temperature:</b> 55.8 °F
			<b>Comments:</b> W155 failure RCC restricted FB		<b>Weekly Ave. Secchi:</b> 3.8

### 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')		1.4	
Entrance Differential	0	1.0' - 2.0'		10.9	
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 applied.		
Weir 158-159 differential	0	1.1' ± 0.1'	Automation problems. Maintenance troubleshooting		
Count station differential	0	≤ 0.3'			
153 Weir crest depth	0	1.0' ± 0.1'	Automation problems. Maintenance troubleshooting		
Junction pool weir JP6	0	> 7.0'	Weekly average	16.2	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir E1	0	No criteria	Weekly average	8.8	
Entrance weir E2	0	depth (≥ 8')	Weekly average	10.5	
Entrance weir E3	0	depth (≥ 8')	Weekly average	10.5	
Collection channel velocity	0	1.5 - 4 fps	west 1.66-east 2.27 fps, AVE 2fps 5/28		
Transportation channel velocity	0	1.5 - 4 fps	3.33 fps 5/22		
North channel velocity	0	1.5 - 4 fps	2.28 fps 5/28		
South channel velocity	0	1.5 - 4 fps	3.89 fps 5/14		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.6	
Entrance weir W2	0	depth (≥ 8')	Weekly average	9.6	
Entrance weir W3	0	No criteria	Weekly average	2.5	
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4	
Entrance weir S1	0	depth (≥ 8')	Weekly average	11.4	
Entrance weir S2	0	depth (≥ 8')	Weekly average	10.1	

### JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18			
Turbine trashrack drawdown	0	<1.5', biwkly	5/16/22 0k		
Spill volume/pattern	0	1 to 8	Per FPP		
Turbine Unit Priority	0	per FPP			
Gatewells	0	Weekly	5/28/22, small numbers of juv. salmonid fish observed. One mortality.		

## Current Unit 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  
MU 17 OOS 3/28/2022 0630 – 7/15/2022 1700 for 6 yr. overhaul and top plate  
MU20 OOS 5/16/2022 0630-6/23/2022 1700 ANNUAL FALL PROTECTION  
MU5 OOS 5/31/2022 0630-6/9/2022 1700 ANNUAL  
MU6 OOS 5/31/2022 0630-7/21/2022 1700 6 YEAR

### Maintenance

East fishladder wier 155 hoist failed. Weir in down position. Return to service December. Forebay restriction 157. Exit conditions to be monitored.  
Permanent oil boom reinstall planned for Apr28 was postponed until this winter.  
Calibrations on east fishway entrances. All in criteria.  
Spillway assessment (MRER); Spillgates 1- 9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair. Spillway crane first priority  
Fish unit rehab Phase 1A awaiting funding.  
AWS intake trashrack debris management - potential funding FY22.  
East ladder window rear crowder brush drive repaired.  
Software changes to east exit PLC for rapid changes in forebay. Working well so far.

### Predators

Drop in gull and cormorants numbers. Continuing to track changes.  
USDA shore and boat hazing continues daily. Sky Guardian falconers begin daily operations focused on weekends during no boat hazing.  
FPOM members site visit 5/24 to view falconry contractor.  
Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit. Fish Passage Plan 2022 approved.

## Research/Construction/Contractors

USGS river temperatures link [April°F](#)  
4 peaks visual counting resumed April 1

Project engineering exploring ergonomic improvements to tribal lamprey trapping equipment.  
Operations test results of new PSMFC switchgate/juvenile sampling facility at north ladder PUD. Results provided to FPOM.  
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 open per FPP. Modifications to gate openings made due to forced unit outages.  
East and North fishways in full service

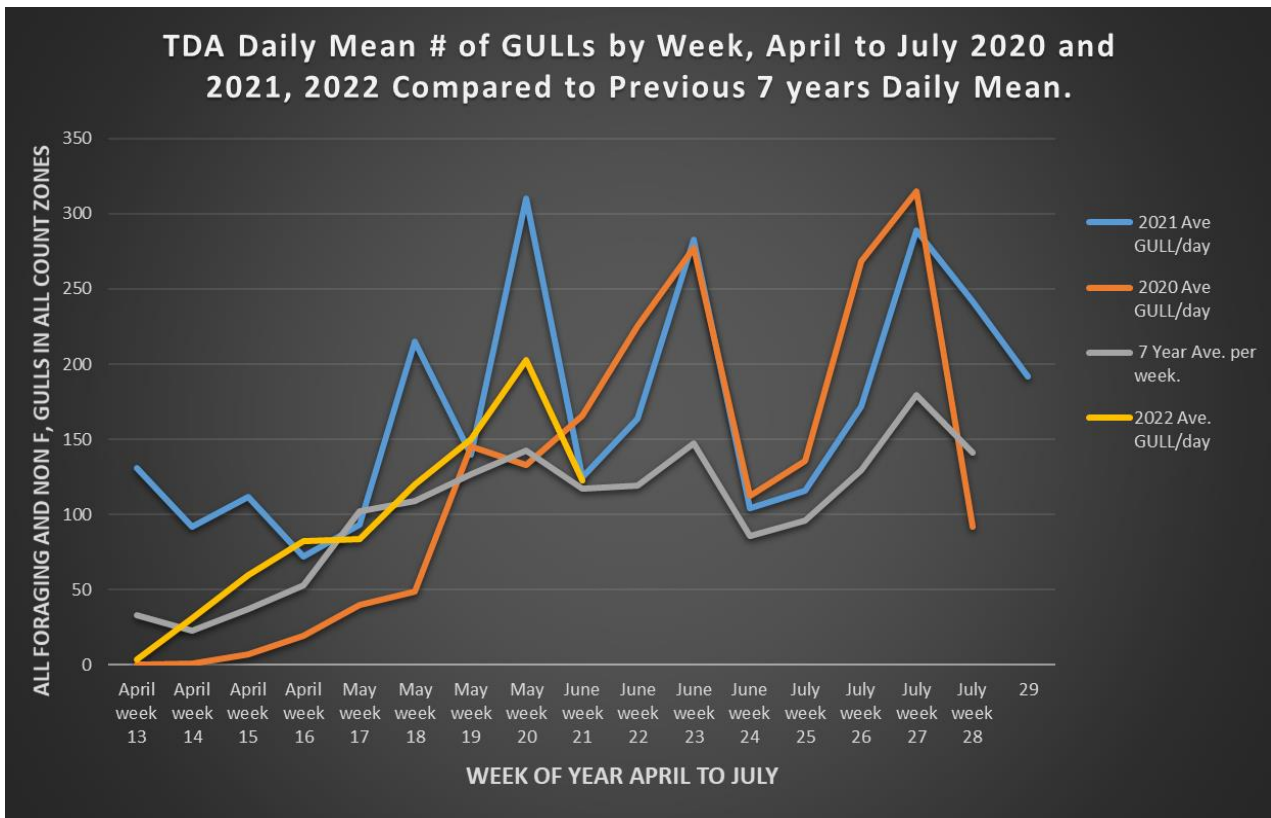
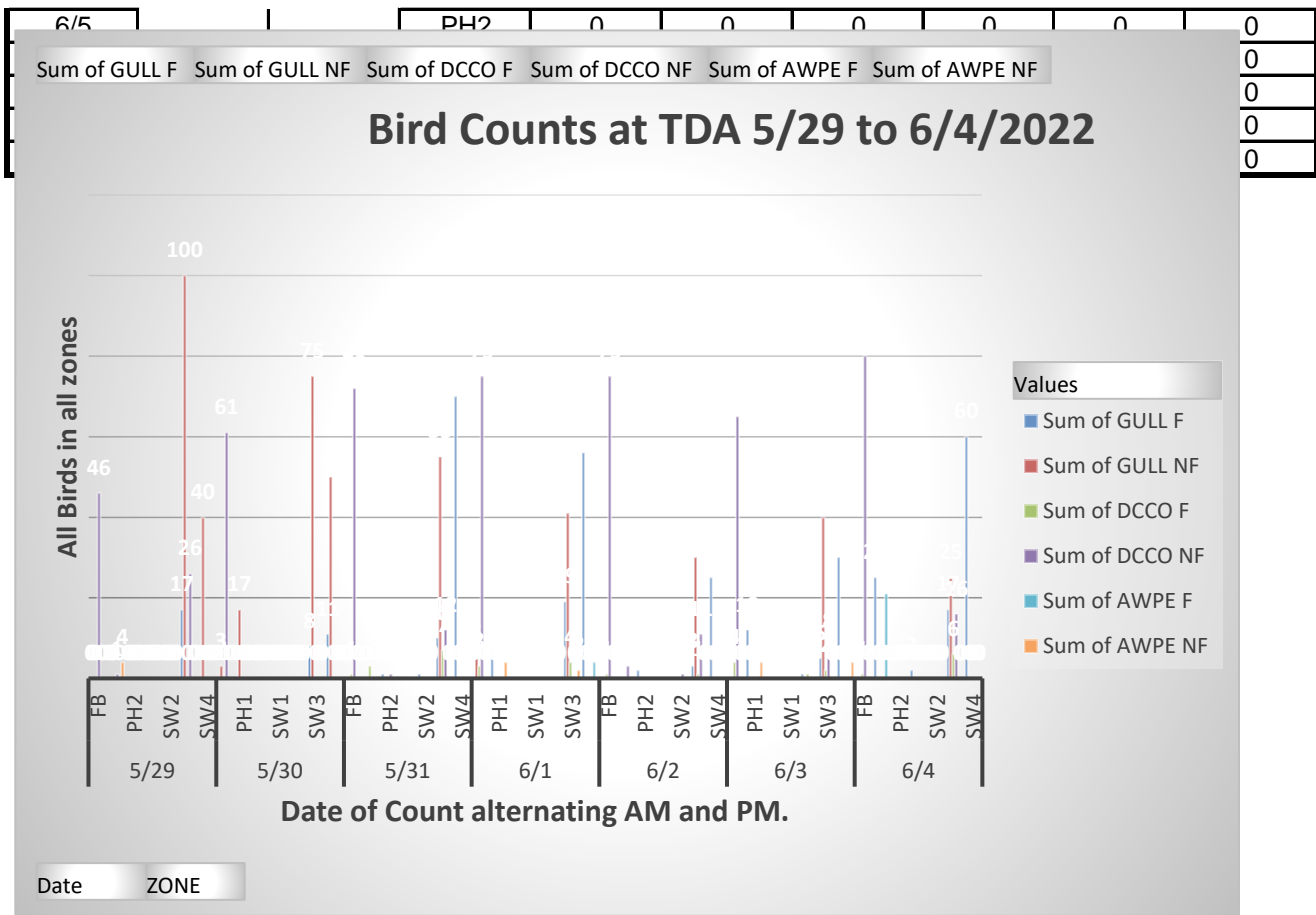
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

# Bird Count Zones, Avian Lines and Laser Deterrent Sites



F=foraging, NF=non-fc

Date	Observer	Time	ZONE	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF
5/29	MM	PM	FB	0	0	0	46	0	0
5/29			PH1	0	0	0	1	0	0
5/29			PH2	0	0	0	0	0	0
5/29			SW1	0	0	0	0	0	0
5/29			SW2	0	0	0	0	0	0
5/29			SW3	17	100	0	26	0	0
5/29			SW4	0	40	0	0	0	0
5/30	MM	AM	FB	0	3	0	61	0	0
5/30			PH1	0	17	0	0	0	0
5/30			PH2	0	0	0	0	0	0
5/30			SW1	0	0	0	0	0	0
5/30			SW2	0	0	0	0	0	0
5/30			SW3	8	75	0	0	0	0
5/30			SW4	11	50	0	0	0	0
5/31	JED	PM	FB	0	0	1	72	0	0
5/31			PH1	0	0	3	0	0	0
5/31			PH2	1	0	0	1	0	0
5/31			SW1	0	0	0	0	0	0
5/31			SW2	1	0	0	0	0	0
5/31			SW3	10	55	7	12	0	0
5/31			SW4	70	0	0	0	0	0
6/1	JWR	AM	FB	0	5	3	75	0	0
6/1			PH1	7	0	0	0	0	0
6/1			PH2	0	0	0	0	0	0
6/1			SW1	0	0	0	0	0	0
6/1			SW2	0	0	0	0	0	0
6/1			SW3	19	41	4	0	0	0
6/1			SW4	56	0	0	0	0	0
6/2	JED	PM	FB	0	0	1	75	0	0
6/2			PH1	0	0	0	3	0	0
6/2			PH2	2	0	0	0	0	0
6/2			SW1	0	0	0	0	0	0
6/2			SW2	0	0	0	1	0	0
6/2			SW3	3	30	1	11	0	0
6/2			SW4	25	0	0	0	0	0
6/3	JWR	AM	FB	0	0	4	65	0	0
6/3			PH1	12	0	0	0	0	0
6/3			PH2	0	0	0	0	0	0
6/3			SW1	0	0	0	0	0	0
6/3			SW2	1	0	1	0	0	0
6/3			SW3	5	40	2	8	0	0
6/3			SW4	30	0	0	0	0	0
6/4	JWR	PM	FB	0	0	1	80	0	0
6/4			PH1	25	0	0	0	0	0
6/4			PH2	0	0	0	0	0	0
6/4			SW1	2	0	0	0	0	0
6/4			SW2	0	0	0	0	0	0
6/4			SW3	17	25	6	16	0	0
6/4			SW4	60	0	0	0	0	0
6/5			FB	0	0	0	0	0	
6/5			PH1	0	0	0	0	0	





0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

Row Labels	Sum of GULL F	Sum of GULL NF	Sum of DCCO F	Sum of DCCO NF	Sum of AWPE F
<b>5/29</b>	<b>17</b>	<b>140</b>	<b>0</b>	<b>73</b>	<b>0</b>
FB	0	0	0	46	0
PH1	0	0	0	1	0
PH2	0	0	0	0	0
SW1	0	0	0	0	0
SW2	0	0	0	0	0
SW3	17	100	0	26	0
SW4	0	40	0	0	0
<b>5/30</b>	<b>19</b>	<b>145</b>	<b>0</b>	<b>61</b>	<b>0</b>
FB	0	3	0	61	0
PH1	0	17	0	0	0
PH2	0	0	0	0	0
SW1	0	0	0	0	0
SW2	0	0	0	0	0
SW3	8	75	0	0	0
SW4	11	50	0	0	0
<b>5/31</b>	<b>82</b>	<b>55</b>	<b>11</b>	<b>85</b>	<b>0</b>
FB	0	0	1	72	0
PH1	0	0	3	0	0
PH2	1	0	0	1	0
SW1	0	0	0	0	0
SW2	1	0	0	0	0
SW3	10	55	7	12	0
SW4	70	0	0	0	0
<b>6/1</b>	<b>82</b>	<b>46</b>	<b>7</b>	<b>75</b>	<b>4</b>
FB	0	5	3	75	0
PH1	7	0	0	0	0
PH2	0	0	0	0	0
SW1	0	0	0	0	0
SW2	0	0	0	0	0
SW3	19	41	4	0	0
SW4	56	0	0	0	4
<b>6/2</b>	<b>30</b>	<b>30</b>	<b>2</b>	<b>90</b>	<b>0</b>
FB	0	0	1	75	0
PH1	0	0	0	3	0
PH2	2	0	0	0	0
SW1	0	0	0	0	0
SW2	0	0	0	1	0
SW3	3	30	1	11	0
SW4	25	0	0	0	0
<b>6/3</b>	<b>48</b>	<b>40</b>	<b>7</b>	<b>73</b>	<b>0</b>
FB	0	0	4	65	0
PH1	12	0	0	0	0



PH2	0	0	0	0	0
SW1	0	0	0	0	0
SW2	1	0	1	0	0
SW3	5	40	2	8	0
SW4	30	0	0	0	0
<b>6/4</b>	<b>104</b>	<b>25</b>	<b>7</b>	<b>96</b>	<b>21</b>
FB	0	0	1	80	0
PH1	25	0	0	0	21
PH2	0	0	0	0	0
SW1	2	0	0	0	0
SW2	0	0	0	0	0
SW3	17	25	6	16	0
SW4	60	0	0	0	0
<b>Grand Total</b>	<b>382</b>	<b>481</b>	<b>34</b>	<b>553</b>	<b>25</b>

**Sum of AWPE NF**

**4**

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0

4

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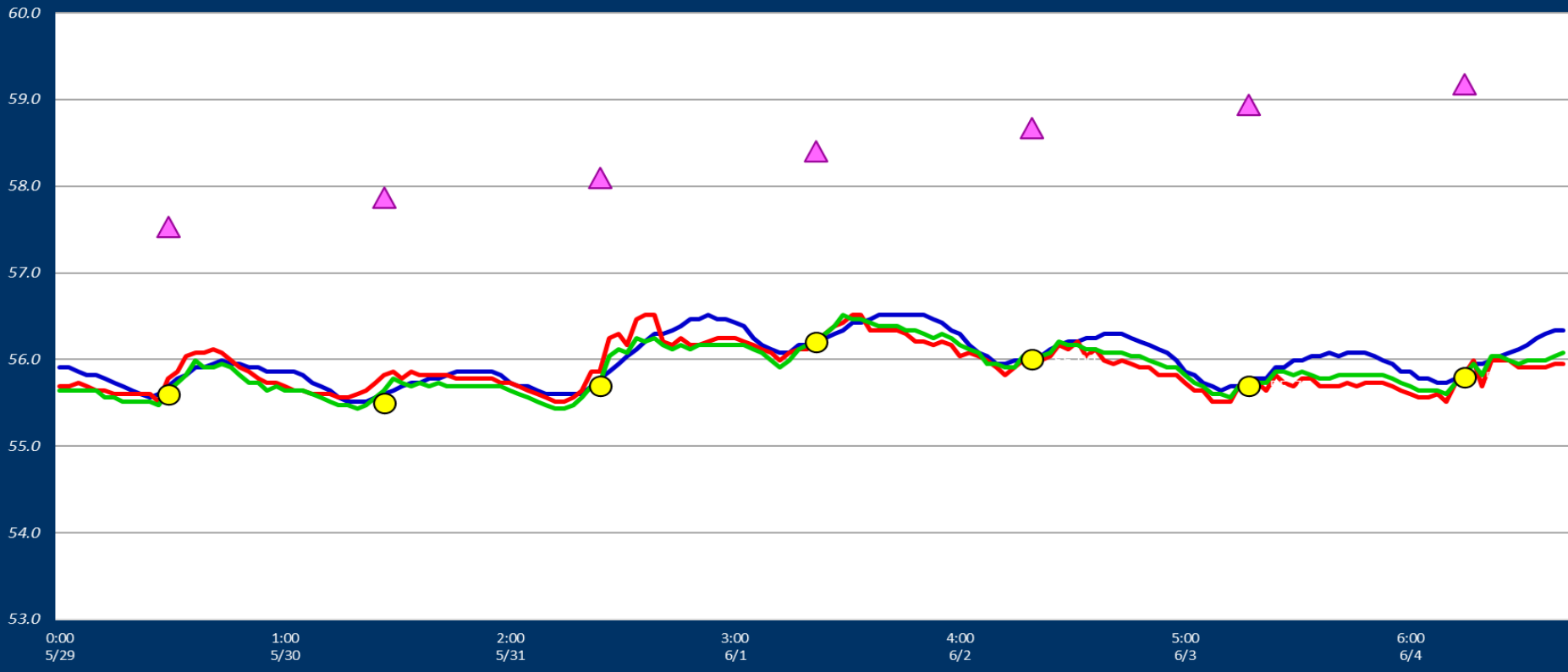
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**18**

### Adult Fish Ladders-River Temperatures

— East Count Station    — North Count Station    — North Entrance    ● Current USGS Daily Average    ▲ USGS Daily Average (2007-2021)



Secchi:		USGS°F
4.0	Sun	55.6
4.0	Mon	55.5
3.0	Tue	55.7
4.0	Wed	56.2
4.0	Thurs	56.0
4.0	Fri	55.7
3.5	Sat	55.8
3.8	AVG	55.8

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
5/29	1.4	10.9	1.5	6.6	11.7	11.9	14.5	1.6	9.3	9.3	1.0	1.4	10.9	9.5
	1.4	10.8	1.5	6.7	11.9	12.1	14.7	1.5	9.5	9.6	1.2	1.4	11.0	9.5
5/30	1.4	10.8	1.2	8.6	11.8	12.0	16.6	1.3	10.4	10.4	2.9	1.4	11.2	9.6
	1.4	10.8	1.3	8.6	11.6	11.6	16.6	2.0	9.7	9.8	2.3	1.5	11.3	9.6
5/31	1.4	10.9	1.5	8.3	11.1	11.1	16.3	1.7	9.1	9.1	2.3	1.6	11.2	9.3
	1.4	10.9	1.5	7.4	11.3	11.4	15.4	1.6	8.7	8.7	1.9	1.4	11.9	10.7
6/1	1.4	10.9	1.6	9.3	9.7	9.7	16.3	1.5	9.5	9.5	2.7	1.5	11.7	9.5
	1.2	10.6	1.4	9.2	10.4	10.5	16.2	1.6	9.1	9.2	2.4	1.4	11.9	9.5
6/2	1.5	10.9	1.3	10.1	10.2	10.2	17.1	1.4	10.1	10.2	3.4	1.5	11.0	10.4
	1.4	10.8	1.4	9.8	9.7	9.7	16.9	1.4	9.7	9.8	3.2	1.3	11.5	11.5
6/3	1.5	10.8	1.5	9.6	9.6	9.8	16.5	1.4	9.7	9.8	2.9	1.4	11.0	10.5
	1.4	10.9	1.6	9.6	9.6	9.8	16.6	1.3	10.2	10.3	3.3	1.4	11.2	10.6
6/4	1.4	11.0	1.7	9.0	9.0	9.2	16.3	1.6	9.2	9.3	2.8	1.4	11.4	10.6
	1.5	11.4	1.4	10.0	9.7	9.9	17.0	1.3	9.8	9.9	3.4	1.3	11.8	10.7
<b>AVG:</b>	<b>1.4</b>	<b>10.9</b>	<b>1.5</b>	<b>8.8</b>	<b>10.5</b>	<b>10.6</b>	<b>16.2</b>	<b>1.5</b>	<b>9.6</b>	<b>9.6</b>	<b>2.5</b>	<b>1.4</b>	<b>11.4</b>	<b>10.1</b>

*Fishways are inspected twice daily.*

found out of criteria