



United States Department of the Interior
U.S. FISH & WILDLIFE SERVICE
Idaho Fish Health Center



276 Dworshak Complex Drive
Orofino, ID 83544-
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Case Information

Case Number	18-094	Report Date	2018-02-28
Case Date	2018-02-28	Reported By	MARILYN BLAIR
Case Type	MONITORING	Title	

Facility Information

Facility	Dworshak National Fish Hatchery	Location	
Address	276 DWORSHAK COMPLEX DRIVE OROFINO, ID 83544	Contact	JEREMY SOMMER
		Phone	208-476-4591
		Fax	

Comments

Background	Gas bubble monitoring for spring Chinook in B bank. TDGs in North Fork of the Clearwater River: 122.7% at 1400 hours on 2/28/18. TDGs in Hatchery Collection Channel: 104.9% at 1400 hours on 2/28/18.
Remarks	

Species Information: spring Chinook salmon (Clearwater)

Sample Information

Lot/Other Id		Water Source	Clearwater River
Container	RW-B19	Age Class	JUVENILE
Number	10	Age(months)	
Condition	Live	Size(mm)	

Species Comments

Remarks	All fish were collected arbitrarily from the general population of the pond.
Internal Obs.	Six fish had normal full levels of food in stomachs. One fish had 50% of full level and 3 fish had 30% of full levels of food in stomachs. Eight fish had 50% visceral fat, 1 fish had 35% fat, and 1 fish had 10% fat. Kidney and gill samples were taken to test for the parasite <i>Nucleospora salmonis</i> by PCR.

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Species Comments	
External Obs.	<p>Gills: Entire gil arches were excised for examination. Six fish had gas bubbles in the gills. Of these, two fish each had one bubble in the gills. Two additional fish each had one bubble in each of 2 gill filaments. The fifth fish had one bubble in each of 3 filaments. The sixth fish had one bubble in each of six filaments. Most of these bubbles were larger than seen on previous exams.</p> <p>Lateral lines: Eight fish had from 3 to 15 bubbles along the lateral line (3,3,4,6,9,9,12,15 bubbles per fish). Six of these fish were of rank 1, and 2 were of rank 2 (12 and 15 bubbles).</p> <p>Unpaired fins: One fish had 2 large bubbles in the dorsal fin, of rank 1.</p> <p>No gas bubbles were observed in eyes.</p>
Recommendations	Continue to watch for increases in mortalities or fish going off of feed.

Assay Results				
# Tested	Pathogen/Syndrome Tested	Tissue Tested	Result	Result Comments
10	Nucleospora Salmonis	Kidney/Gill	Pending	5 2p PCR.
10	Gas Bubble Trauma	Fin clip	Detected	One fish had 2 bubbles in the dorsal fin, of rank 1.
10	Gas Bubble Trauma	Skin	Detected	Eight fish had 3-15 bubbles along the lateral line: 6 fish of rank 1 and 2 fish of rank 2.
10	Gas Bubble Trauma	Gill	Detected	Six fish had 1-6 bubbles in the gills.
10	Gas Bubble Trauma	Eye	Not Detected	Both eyes of each fish.