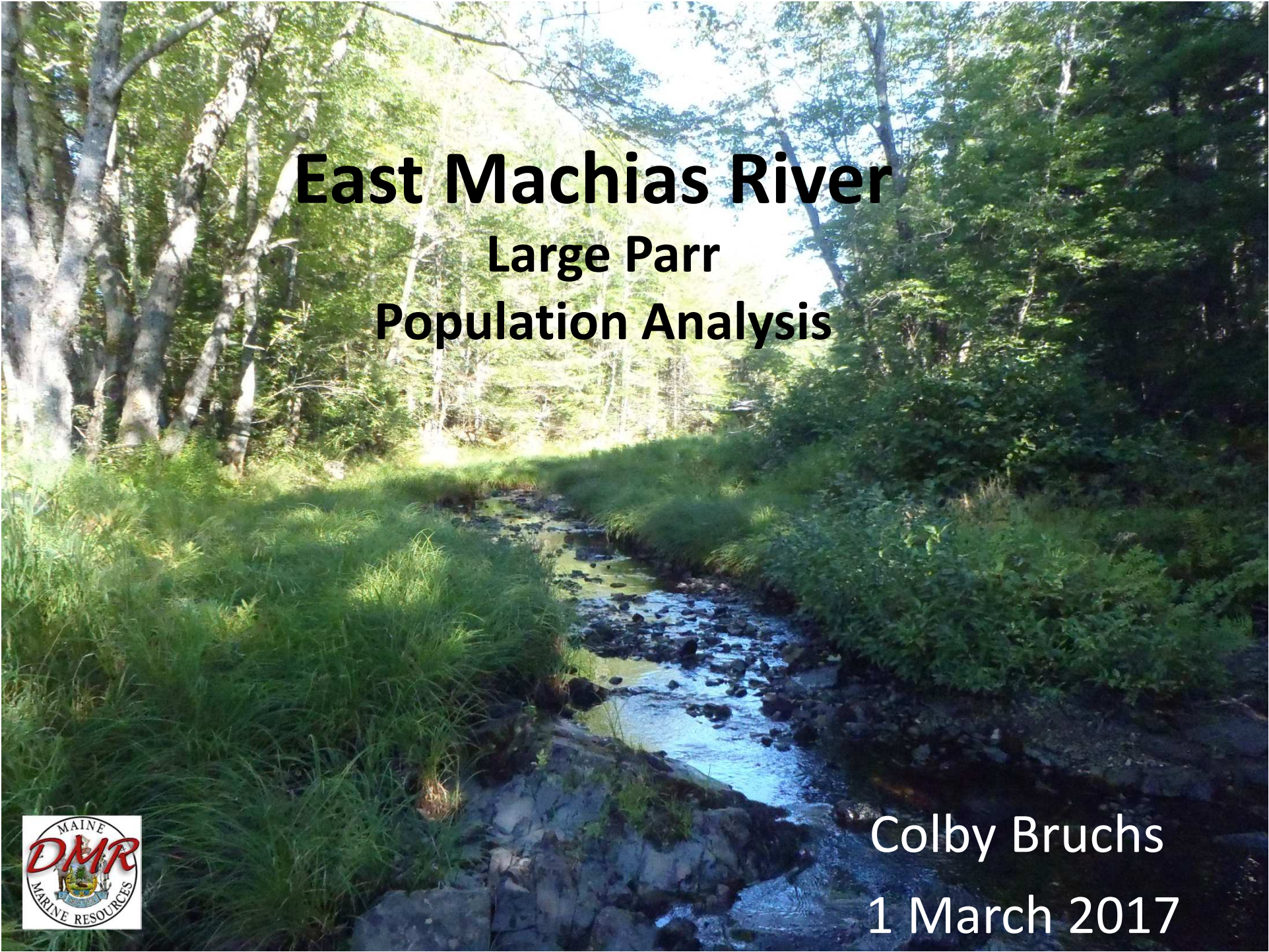




East Machias River

Large Parr Population Analysis



Colby Bruchs
1 March 2017

Overview

- Available data
- Stocking history
- Time-series comparison
- Hatchery product comparison
- Tributary-specific analysis



East Machias Large Parr Sampling

- Available data
 - 1976 - 2016
 - 300 sampling events
 - 149 Depletion (1976 – 2014)
 - 151 CPUE (2007-2016)
 - Predicted density
 - Trial et al. 2012



East Machias River Stocking History

1976-1996

1997-2000

2001-2011

2012-present

Natural
Spawning

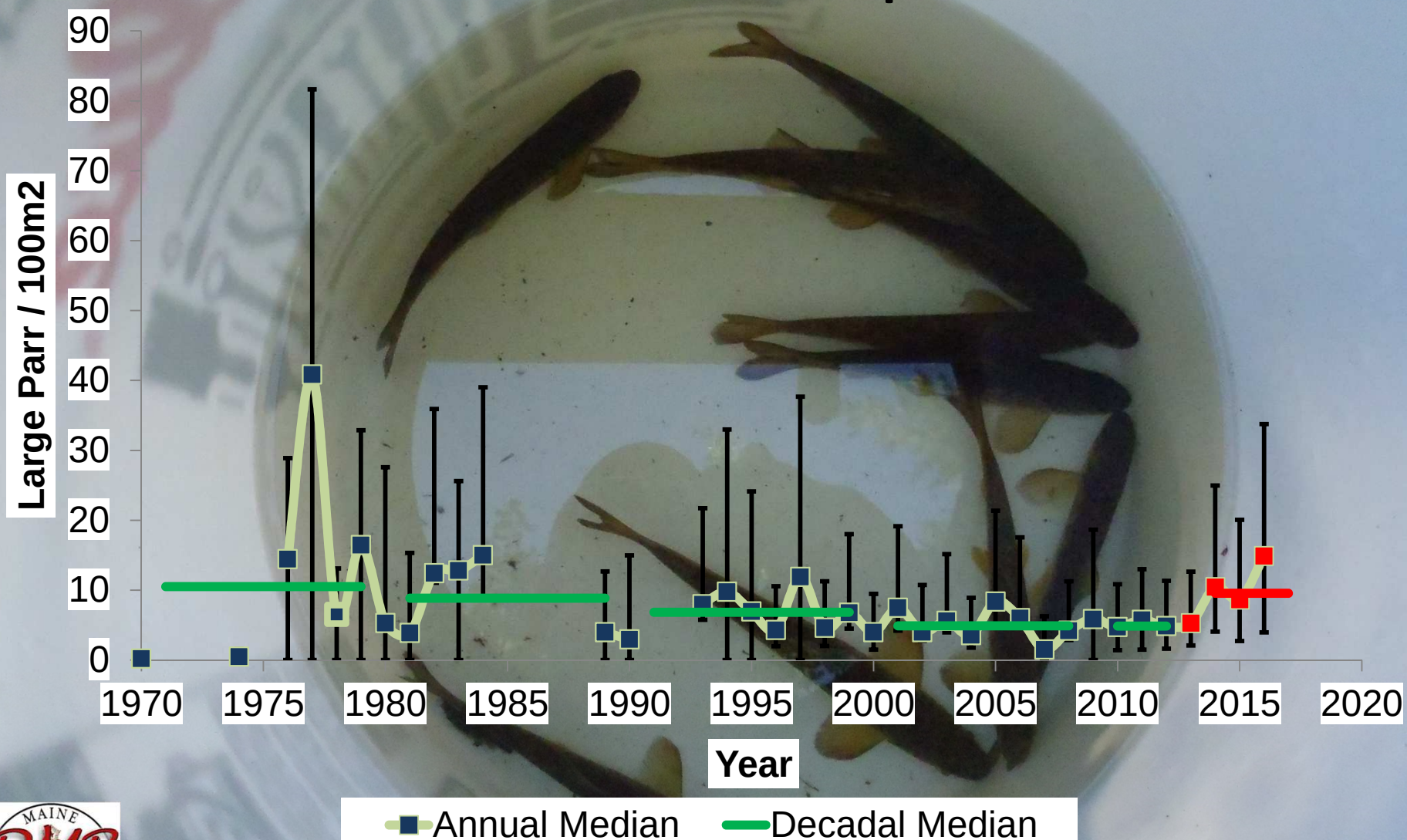
Fed Fry

Unfed Fry

Fall Parr

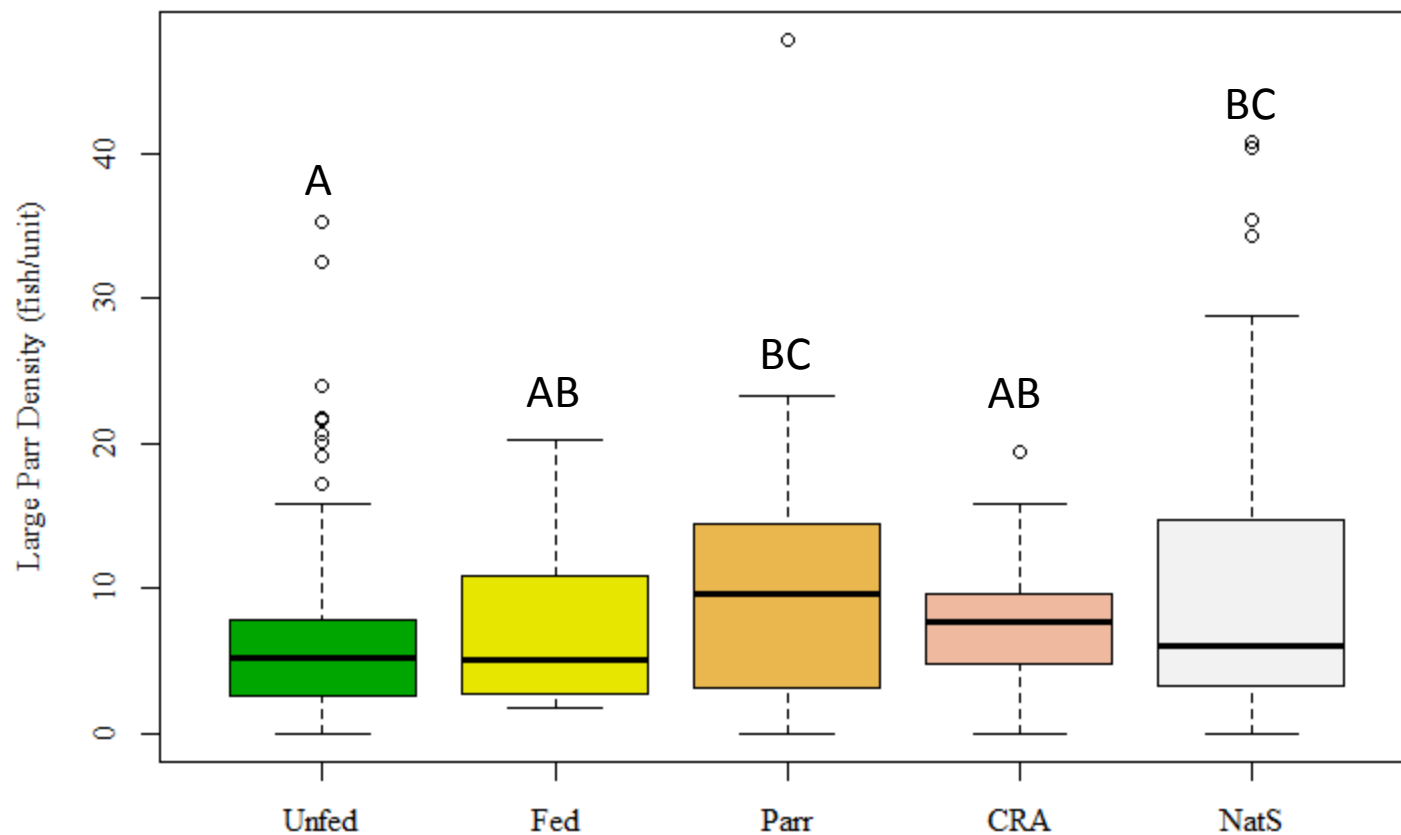


Time-series Comparison



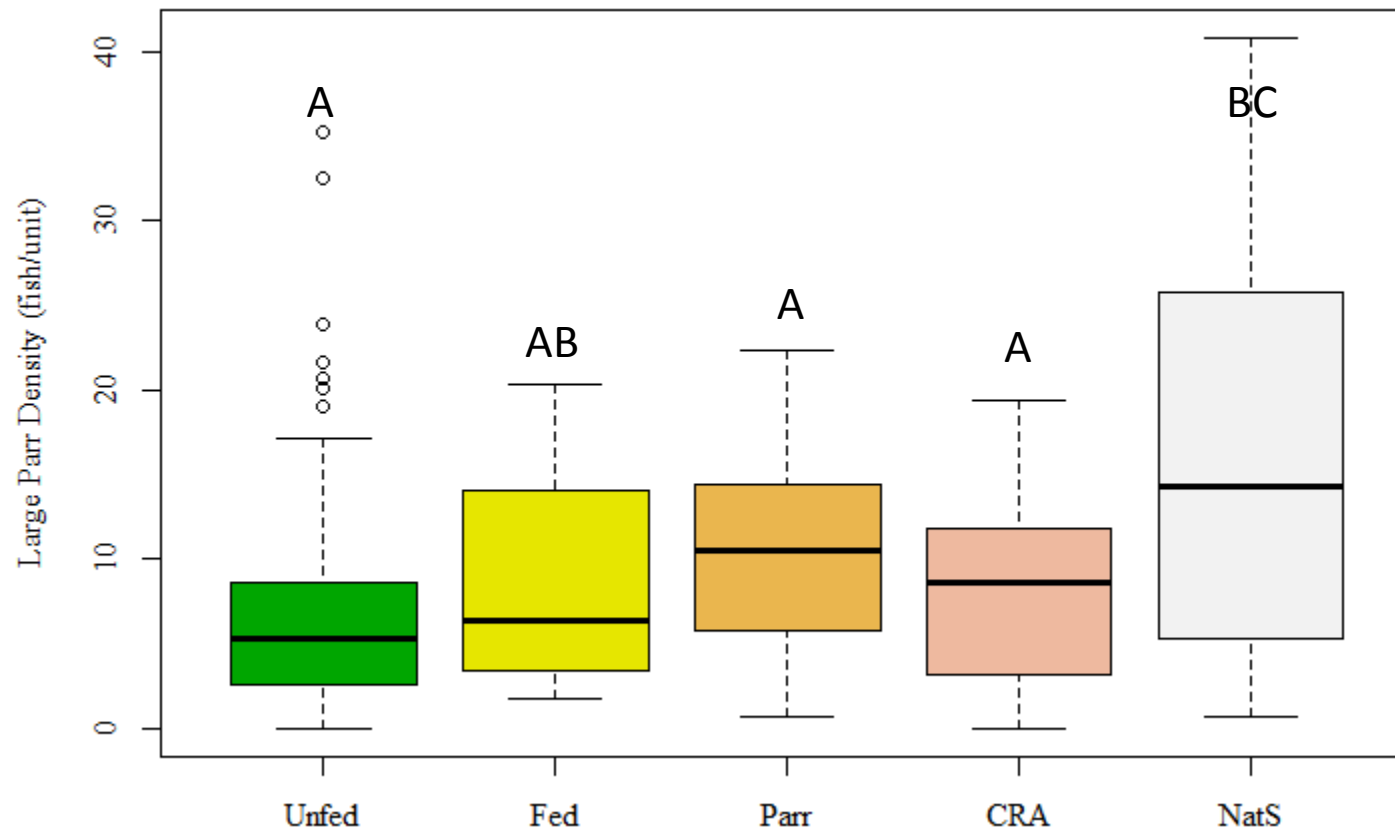
Hatchery Product Comparison

Drainage-wide (pooled)



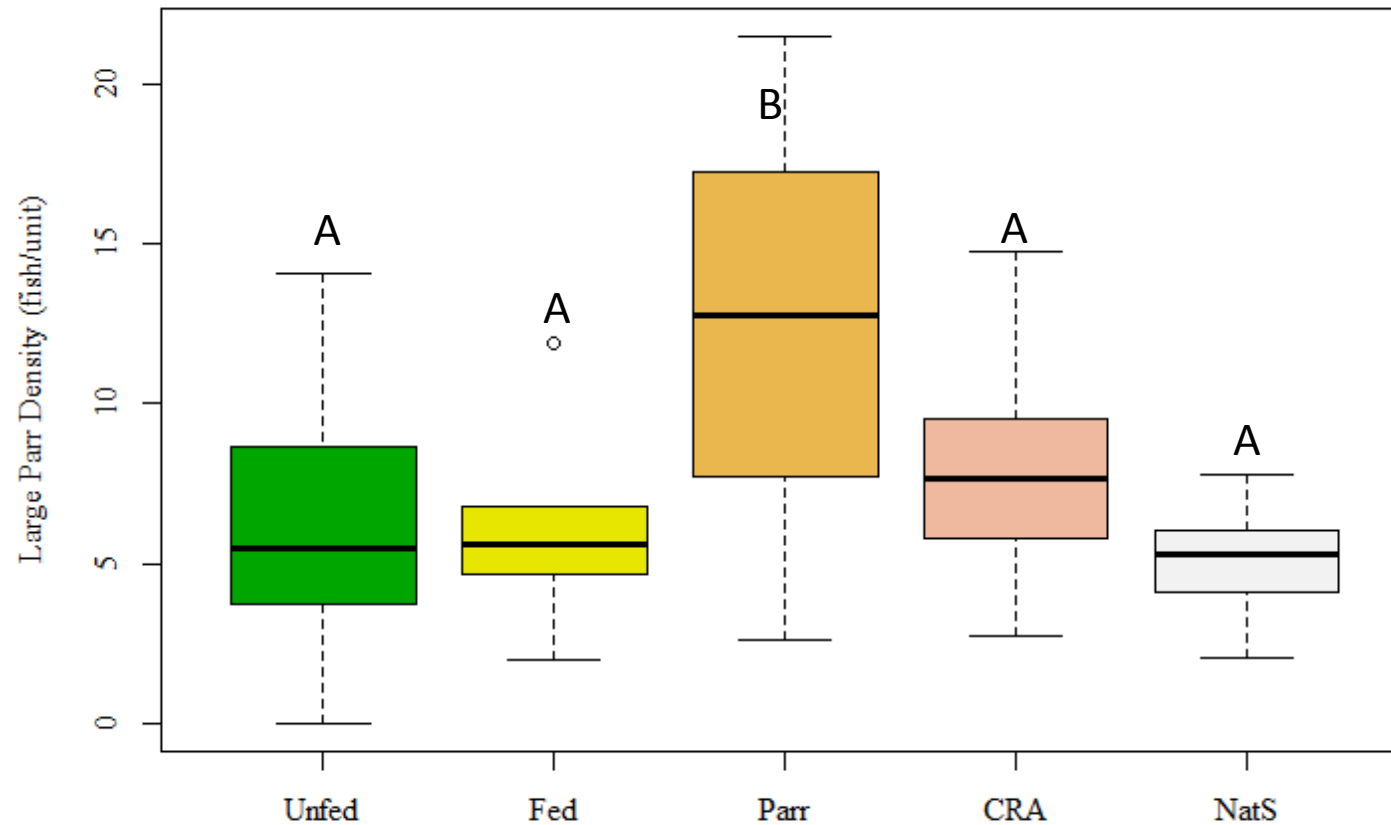
Hatchery Product Comparison

Stratified (Width Class – A – 1-6 meters)



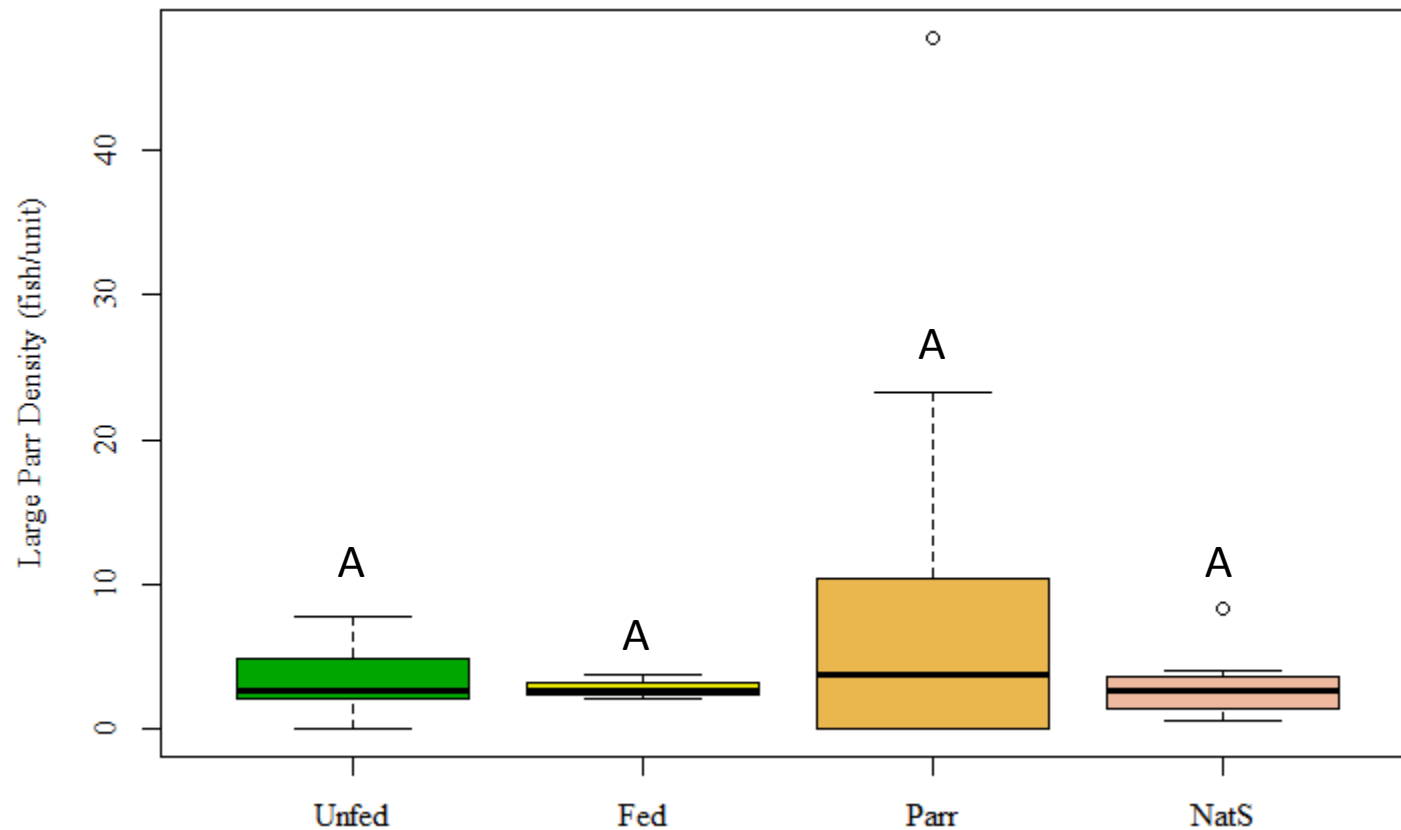
Hatchery Product Comparison

Stratified (Width Class – B – 6-12 meters)



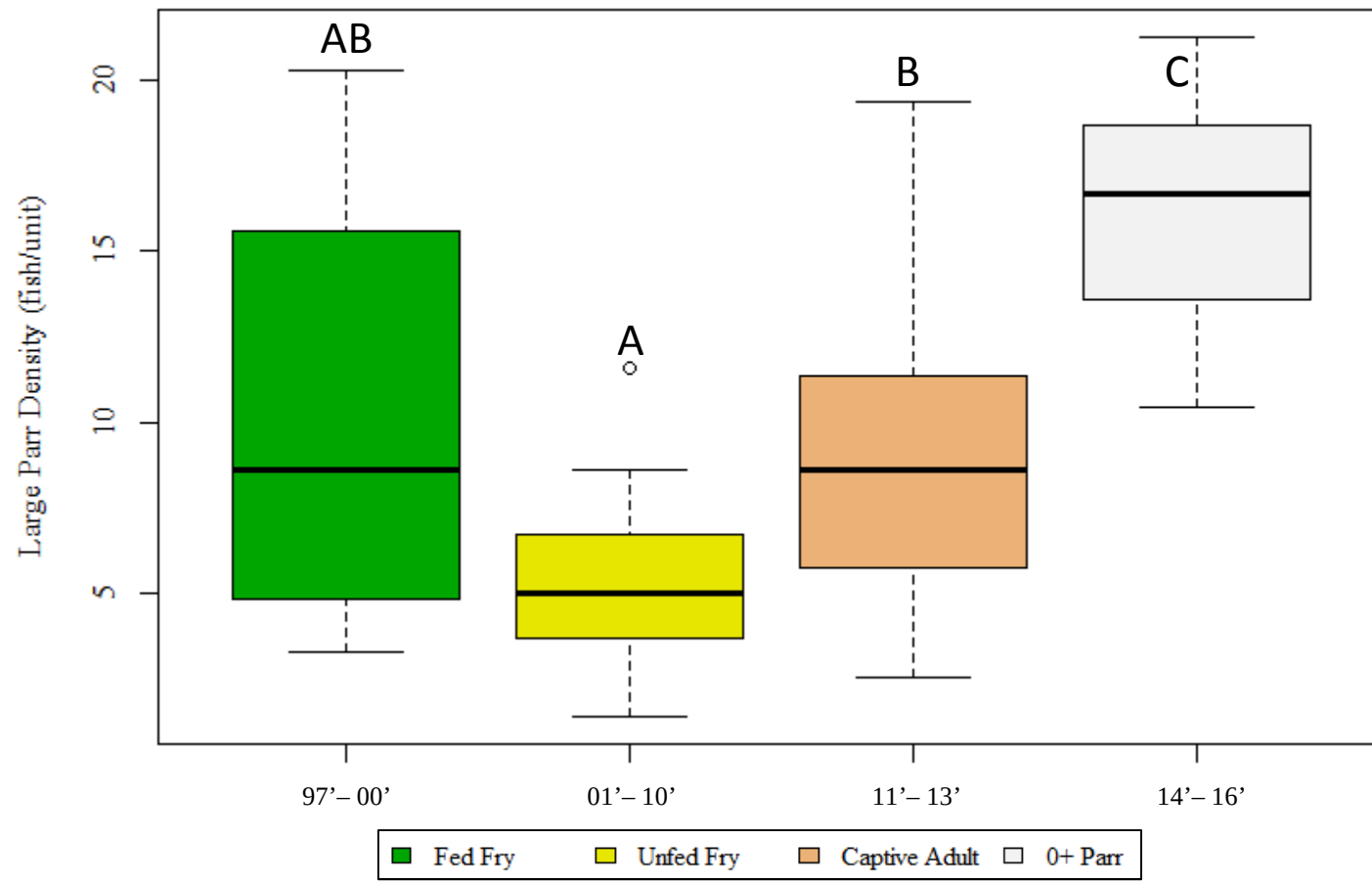
Hatchery Product Comparison

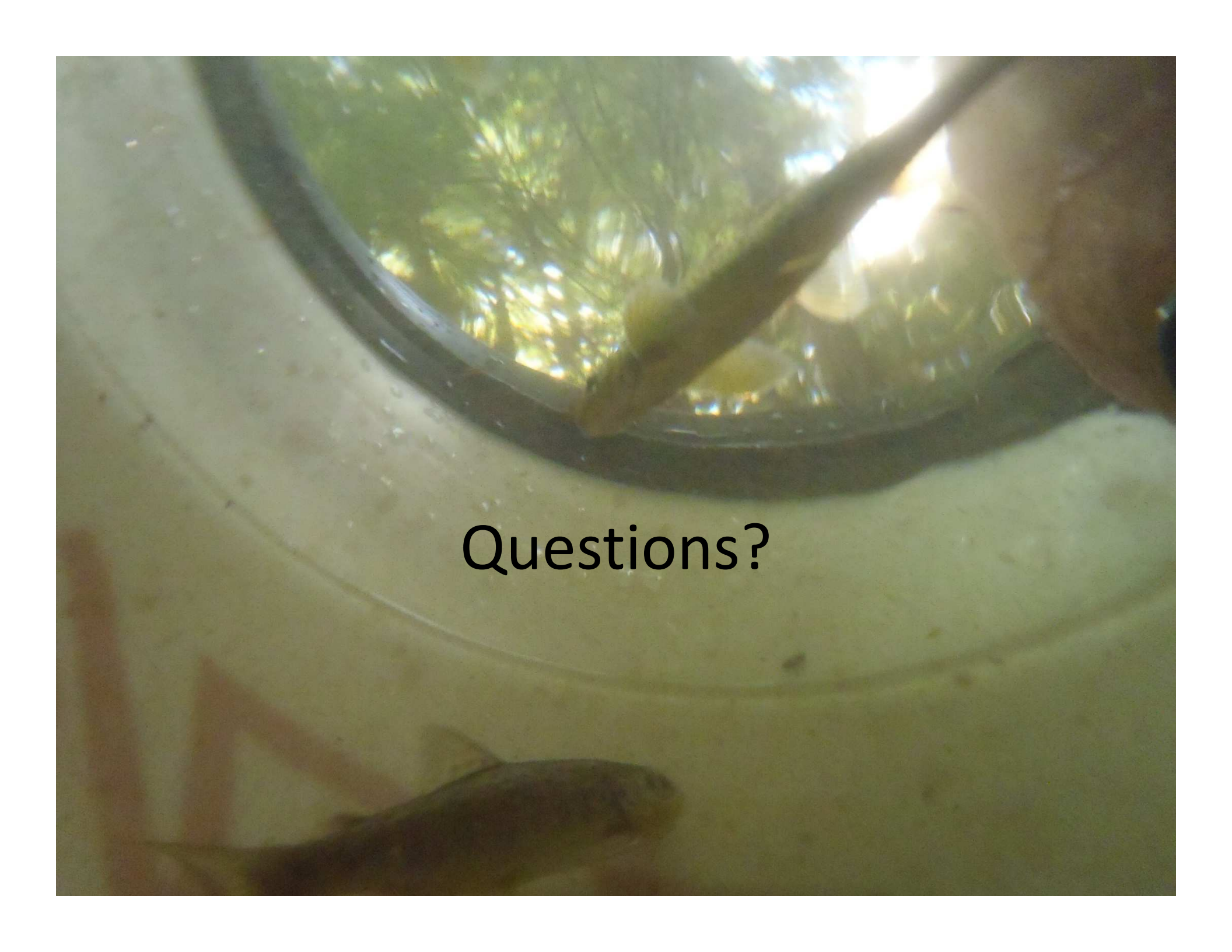
Stratified (Width Class – C – 12-18 meters)



Hatchery Product Comparison

Tributary Specific Analysis – Northern Stream



A photograph of a fish, possibly a goldfish, swimming in a glass tank. The fish is positioned in the lower-left corner, facing right. The water is clear, and the background shows reflections of light and foliage on the glass. The word "Questions?" is written in a black, sans-serif font in the center of the image.

Questions?