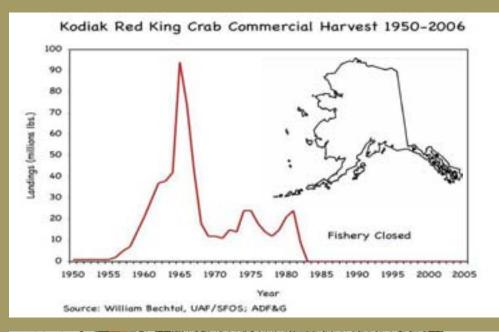
The effects of diet and habitat on the coloration of juvenile red king crab



Melissa Rhodes-Reese UAF Juneau Center for School of Fisheries and Ocean Sciences

Red King Crab Fishery

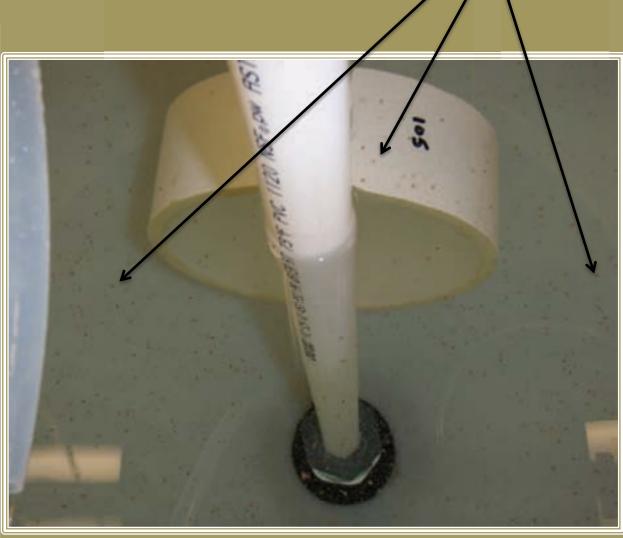




Stock Enhancement

Larvae







WILD

HATCHERY

Cryptic Behavior



Objective

To determine the effects of habitat and diet on the coloration of hatchery-reared juvenile red king crab

TheTreatments





Natural









Artificial





Diets



Standard

- Calcium Tablets
 - Water
 - Brine Shrimp
- Cyclop-eeze®
- White Shrimp
 - Gelatin
- Otohime® Marine Fish
 Feed

Krill Based

- Calcium Tablets
 - Water
 - Frozen Krill
 - Gelatin
- Otohime® Marine Fish
 Feed

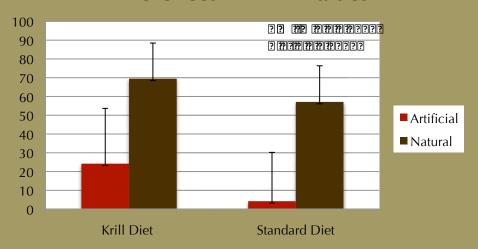
Krill



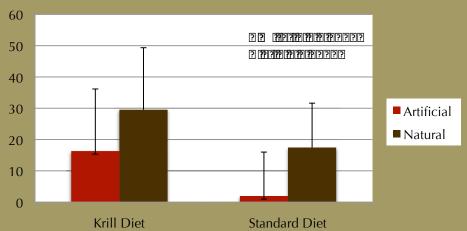
Measured Area

Results

Differences In RED Values



Differences In GREEN Values



Differences In BLUE Values



Artificial

Natural





I would like to thank.....



Mr. and Mrs. C. L. Anderson pose with a 20-lb. king crab. Mr. Anderson was a director and commissioner for ADF&G from 1949 – 1961.

- •Dr. Ginny Eckert for her time and patience
- •Miranda Westphal for everything
- •Alutiiq Pride Shellfish Hatchery for supplying the babies
- •Dr. Carolyn Bergstrom for the color card and Photoshop applications
- •Dr Sherry Tamone and the entire crab lab
- UAF's Undergraduate Research
 Competition for the project funds