



Virginia Aquaculture Conference

November 11, 2023

Virginia Department of Agriculture and Consumer Services
Wytheville Regional Animal Health Lab

Virginia's Regional Lab System

Four Regional Animal Health Laboratories

Harrisonburg: Poultry, Dairy, Molecular

Warrenton: Equine, Companion Animal (Forensics)

Lynchburg: Cattle, Food Safety, Molecular

Wytheville: Cattle (Beef/Dairy), Small Ruminant, Fish

Lab System Overview

Provides regulatory and diagnostic testing for veterinarians, agricultural animal producers, pet owners, food manufacturers, and other government program areas.

Over 300,000 samples tested per year.

- ▶ Bacteriology
- ▶ Serology
- ▶ Parasitology
- ▶ Dairy Microbiology
- ▶ Molecular Testing (PCR)
- ▶ Necropsy

Elk Restoration Project

10 years ago, 74 Elk imported from KY and MO, quarantined, tested repeatedly, tagged and released in 3 SW VA counties on reclaimed strip-mined land

All elk found dead or dispatched brought to Wytheville Lab for necropsy

Surveillance tested TB, Brucellosis and CWD

All negative to date

Meningeal Worm most common cause of death





Summer of 2019, participated in US Fish and Wildlife semi-annual Health Inspection at Paint Bank Hatchery. Followed collected samples to USFWS laboratory in Lamar, PA for training on AFS Blue Book testing procedures.

Acquired equipment and supplies for Salmonid testing per AFS Blue Book guidelines.

January 2020, returned to Paint Bank for additional training. DWR Health Inspection testing began in Wytheville lab.

Health Inspection Pathogens of Concern in Trout

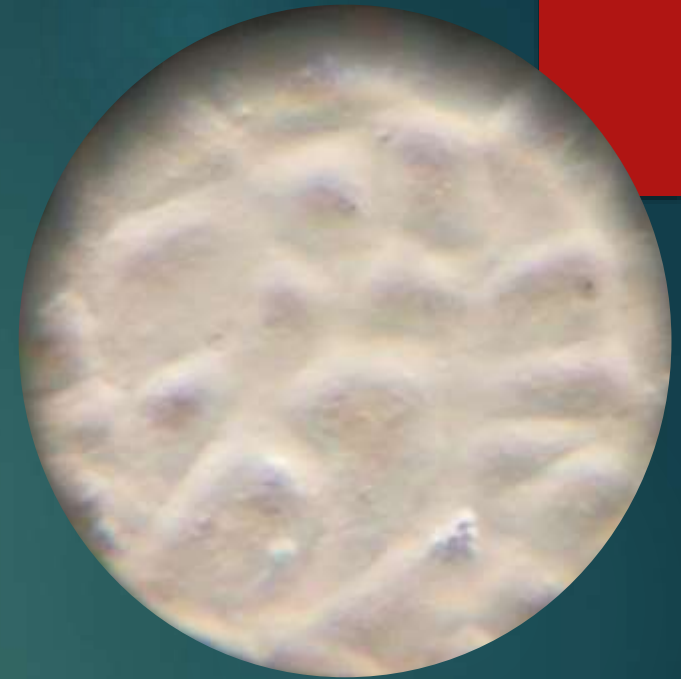
- ▶ Viruses:
 - ▶ IPN
 - ▶ VHSV
 - ▶ IHN
- ▶ Bacteria:
 - ▶ *Y. ruckeri*
 - ▶ *A. salmonicida*
 - ▶ *R. salmoninarum*
- ▶ Parasites:
 - ▶ *M. cerebralis*.



Virology

- ▶ Infectious Pancreatic Necrosis (IPN)
- ▶ Viral Hemorrhagic Septicemia Virus (VHSV)
- ▶ Infectious Hematopoietic Necrosis (IHN)

- ▶ Testing procedure: Tissue Culture for Virus Isolation





Bacteriology

- ▶ Enteric Red Mouth Disease :
Yersinia ruckeri
- ▶ Furunculosis : *Aeromonas salmonicida*
 - ▶ Testing procedure: Aerobic culture
- ▶ Bacterial Kidney Disease:
Renibacterium salmoninarum
 - ▶ Testing procedure: Direct Fluorescent Antibody

Parasitology

- ▶ Whirling Disease:
Myxobolus cerebralis
- ▶ Testing procedure:
Pepsin Trypsin Digest



Services Offered

- ▶ State government
- ▶ Private producer
- ▶ Health Inspection Testing and Diagnostic Testing available.
- ▶ For additional information and to schedule testing for Trout please contact us at 276-228-5501.

Questions?

Contact Information:

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