



Animal Disease
Diagnostic Laboratory



*From the Indiana Animal Disease Diagnostic
Laboratory*

Issue: Fall 2025

A Note from the Associate Director – Dr. Craig Bowen

As autumn settles across Indiana, the ADDL finds itself once again on the front lines in the fight against highly pathogenic avian influenza (HPAI). The return of this virus has brought with it long hours, dedicated teamwork, and a renewed focus on rapid diagnostic testing. Our laboratory teams are working tirelessly to identify new cases and confirm negative samples, helping ensure that poultry and poultry products can continue to move safely through the supply chain.

This edition of *The Lab Report* is filled with updates that highlight the continued strength, collaboration, and commitment of our ADDL team. You will find updates on disease detection across Indiana, progress on the ongoing renovation project, meet new faces at the ADDL, and a preview of the upcoming holiday schedule.

As always, thank you for your continued support of the ADDL and for the crucial role each of you plays in protecting animal and public health.

Welcome to Our New and Returning Team Members

The Indiana Animal Disease Diagnostic Laboratory is pleased to welcome Mojtaba Daneshi, DVM, DVSc, PhD, as our new Client Services Veterinarian assisting with diagnostic consultation and outreach. Dr. Daneshi brings extensive experience in internal medicine, diagnostic pathology, and immunology. In his new role, he serves as a bridge between our laboratory and the veterinary community, helping clinicians interpret diagnostic results, optimize sample submissions, and stay informed about emerging disease trends. Dr. Daneshi has already made a tremendous impact through his energy, insight, and leadership—one such example is his hard work in developing this newsletter.



We also extend a warm welcome back to Dr. Tsukasa Sakashita, who recently completed his Anatomic Pathology Residency here at Purdue and has joined the ADDL team as a Diagnostic Pathologist. Dr. Sakashita will be taking necropsy and biopsy cases at the Reed ADDL. He has a special interest in dermatopathology and oral pathology. We are thrilled to have him

back, contributing to our mission of advancing animal health in Indiana and beyond.



Fall Spotlight: Epizootic Hemorrhagic Disease in Deer

What We Are Seeing:

This summer has brought a noticeable increase in positive cases of Epizootic Hemorrhagic Disease Virus (EHDV) in deer submitted to the ADDL. EHD is a vector-borne viral disease spread by *Culicoides* midges, with outbreaks typically peaking in late summer and early fall. White-tailed deer are highly susceptible, and acute cases often result in sudden death near water sources.

Why It Matters:

EHD is not transmissible to humans, but it can cause significant mortality in deer populations and raise concerns among hunters, wildlife managers, and landowners. Cattle and other ruminants may be exposed but typically develop only mild or inapparent infections.

Diagnostics Available:

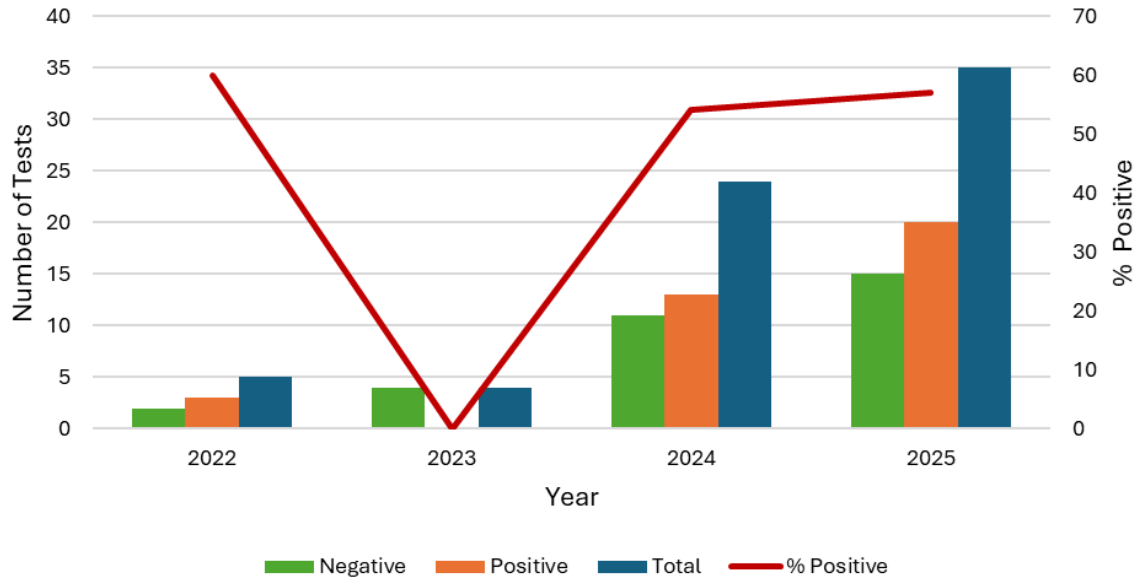
- **Epizootic Hemorrhagic Disease Virus PCR (EHD)**
- **Bluetongue and Epizootic Hemorrhagic Disease Virus Duplex PCR (BTV & EHD)**
- **Bovine Reproductive Targeted NGS Panel**



Client Tip:

If you encounter deer mortality in the field, contact your local wildlife authorities (**IN DNR**). For diagnostic submissions, ensure proper sample handling to preserve viral integrity.

Trends in Epizootic Hemorrhagic Disease PCR Results for Cervid Samples Submitted to the Indiana ADDL (2022–Oct 2025)



Blood Parasites in Focus: *Theileria* and *Anaplasma* Detection Continues

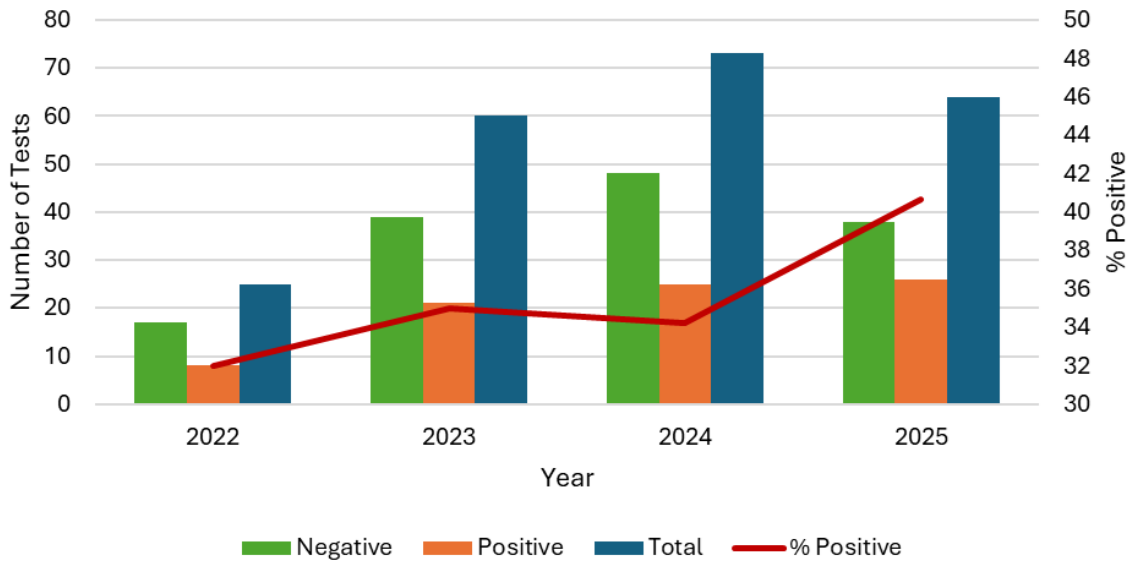
The Indiana ADDL continues to detect positive cases of *Theileria orientalis* and *Anaplasma marginale* in bovine submissions. These diseases can cause anemia, fever, jaundice, and weakness, particularly in naïve or stressed cattle. Detection of positive cases has been increasing, reflecting both expanding tick activity and heightened awareness among producers and veterinarians.

While neither pathogen poses a risk to humans, both have significant health and economic impacts on cattle operations. The continued detection of positives highlights the importance of routine diagnostic testing, vector control, and herd biosecurity to reduce transmission and maintain herd health.

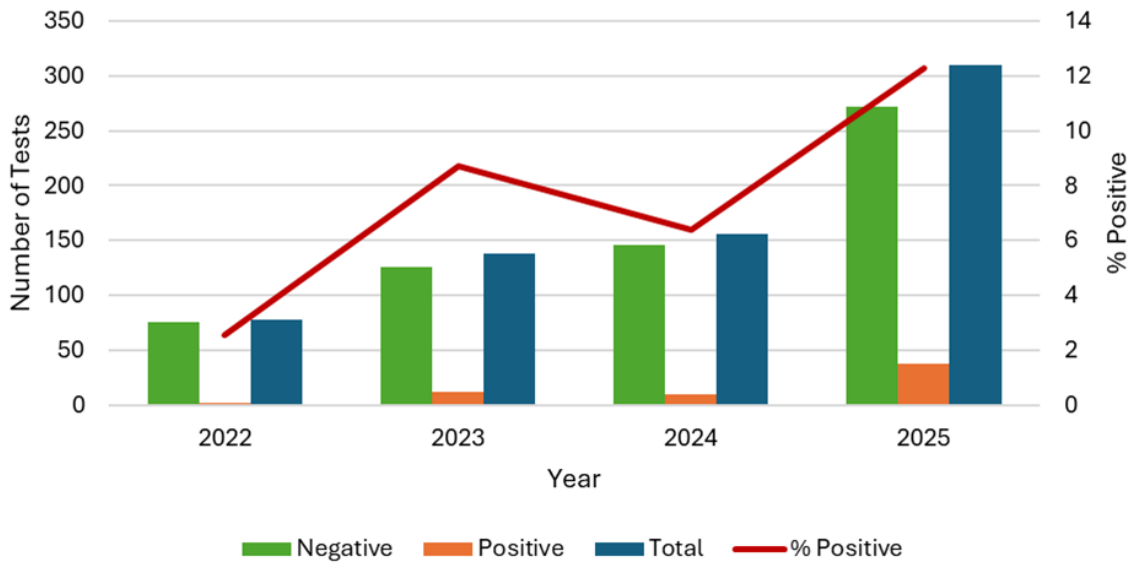
Diagnostics Available:

- Bovine Reproductive Targeted NGS Panel
- *Anaplasma marginale* PCR
- *Anaplasma* spp. ELISA
- *Theileria orientalis* / *Anaplasma marginale* PCR
- *Theileria orientalis* PCR and Genotyping

Trends in *Anaplasma marginale* PCR Results for
Bovine Samples Submitted to the Indiana ADDL
(2022–Oct 2025)



Trends in *Theileria orientalis* PCR Results for
Bovine Samples Submitted to the Indiana ADDL
(2022–Oct 2025)



Shipping Tips

Cold weather can quickly compromise sample quality if specimens freeze during transit. To prevent damage, avoid placing samples directly against ice packs and use insulated shippers with padding to maintain a stable, cool—not frozen—temperature.



Cold-Weather Shipping Tips

- Use insulated containers and room-temperature gel packs instead of frozen ones.
- Ship overnight early in the week to prevent weekend delays.
- Fill empty space in the box with padding to protect samples from cold exposure.
- Double-bag liquid samples and keep paperwork in a separate waterproof bag.
- Prevent biopsy samples from freezing by adding ethanol at a rate of 1 part ethanol to 9 parts formalin.

Following these steps helps ensure specimens arrive in optimal condition for testing. For detailed guidance, visit [Shipping Diagnostic Specimens in Cold Weather](#) on the ADDL website.

Tests & Methods Updates

New Tests Available

The ADDL continues to expand and refine its diagnostic portfolio to improve disease detection with a focus on accurate and timely results. Examples of newly added tests, examples include, ***Francisella tularensis* PCR**, Ovine Herpesvirus 2 PCR (Malignant Catarrhal Fever, MCF), *Cytauxzoon felis* PCR, ***Renibacterium salmoninarum* PCR** (Bacterial Kidney Disease, BKD), and **Ranavirus PCR** which broaden our capacity to detect emerging and wildlife-associated pathogens.

For a complete list of tests and fees, visit the [ADDL Test Catalog](#).

Large Animal Necropsy Reminders

The Reed ADDL will be starting a renovation project on the large walk-in cooler on November 10, 2025. During this time, the laboratory will not have cold storage capacity for large animal carcasses and will be unable to accept after-hours large animal drop-offs. We ask that clients deliver carcasses during regular business hours arriving before 3:00 P.M. to ensure timely examination and proper handling. For weekend submissions, please contact the lab to receive instructions.

If storage prior to submission is necessary, keep the body refrigerated if possible. Fortunately, we are headed into the colder weather season, and carcasses may be maintained outside, protected from direct sunlight. These efforts to keep carcasses cool will help preserve tissue quality.



Upcoming Events & Holidays

Conferences & Meetings

- November 5 – Indiana Association of Equine Practitioners Meeting – Boone County Fairgrounds, IN ([Register](#))
- December 2 – Midwest Pork Conference – Muncie, IN ([Register](#))
- December 5–7 – Hoosier Beef Congress – Indianapolis, IN ([Info](#))

Holiday Closures

- November 27–28, 2025 – Thanksgiving Break
- December 25–26, 2025 – Christmas Holiday
 - Reduced Hours: 9:00-3:00 December 24, 29, 30, 31
- January 1–2, 2026 - New Year's Day

Holiday Hours & Closures

Nov and Dec 2025 - Jan 2026



Animal Disease
Diagnostic Laboratory

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Nov 23 Closed	24	25	26	27 Closed Happy Thanksgiving!	28 Closed Happy Thanksgiving!	29 Closed
30 Closed	Dec 1	2	3	4	5	6 Closed
7 Closed	8 Use FedEx/UPS (not USPS) through Jan 2 nd to avoid delays	9	10	11	12	13 Closed
14 Closed	15	16	17	18	19	20 Closed
21 Closed	22	23	24 Open 9-3	25 Closed Merry Christmas!	26 Closed	27 Closed
28 Closed	29 Open 9-3	30 Open 9-3	31 Open 9-3	Jan 1 Closed Happy New Year!	2 Closed	3 Closed

Stay tuned for updates to come on testing schedules impacted by the holiday schedule.

Need Help? Contact Us

Reed ADDL: 765-494-7440

Heeke ADDL: 812-678-3401

Email: addl@purdue.edu

Website: <https://vet.purdue.edu/addl/>

CONNECT WITH US!



Animal Disease Diagnostic Laboratory | 406 South University Street | West Lafayette, IN 47907-2065 US

[Unsubscribe](#) | [Update Profile](#) | [Constant Contact Data Notice](#)



Try email marketing for free today!