INDIANA LABORATORY SYSTEM MONTHLY PARTNER WEBCAST

Thank you for joining us.
The webcast will begin shortly.



6/19/2025



INDIANA LABORATORY SYSTEM MONTHLY PARTNER WEBCAST

MARK GLAZIER
DEPUTY LABORATORY DIRECTOR

6/19/2025

Agenda

- 1. Welcome and laboratory updates Mark Glazier, deputy laboratory director
- 2. STAT courier/clinical shipping and measles update Brian Pope, Virology and Biological Preparedness Division director
- 3. IDOH entomology update Lee Green, chief medical entomologist
- 4. Q & A IDOHL webcast team



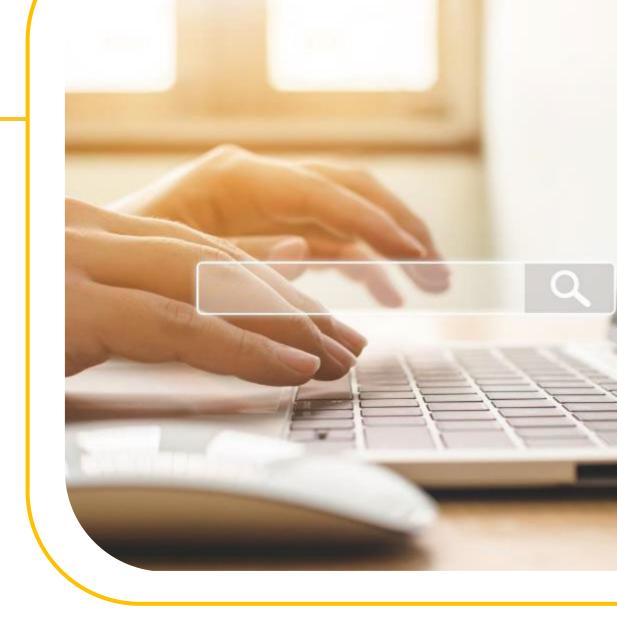




IDOH Laboratory

Four ways to stay in the know:

- 1. Email us at <u>IDOH-Lab-Info@health.in.gov</u>
- 2. Sign up for IHAN Indiana Health Alert Network https://ihan-in.org/
- 3. <u>Sign up</u> for laboratory communications and updates
- 4. Update your laboratory's contact information <u>here</u>





APHL free SAF-T-PAK training

APHL is offering free SAF-T-PAK Packaging and Shipping Trainings Online self-paced modules, register by 6/30/25

- Category A Division 6.2 Infectious Substances online self-paced modules
 - Several modules estimated to take approximately eight hours to complete
- 2) Category B online self-paced modules
 - Several modules estimated to take approximately five hours to complete

For more information, please email idoh-lab-pack-ship@health.in.gov.



2025 ILS webcast updates

- ILS webcasts will be held from 10:30-11 a.m. ET on the second **Thursday** each month
- Webcasts will require registration via the links provided:
 - July 10 <u>July ILS Webcast Registration Link</u>
 - August 14 <u>August ILS Webcast Registration Link</u>
- Recordings will be sent to the email provided during registration following the conclusion of the webcast





IDOH STAT COURIER/CLINICAL SHIPPING & MEASLES UPDATE

BRIAN POPE

VIROLOGY & BIOLOGICAL PREPAREDNESS DIVISION DIRECTOR

6/19/2025

STAT Courier Reduction of Services

- Current routes will continue to operate until 6/30/25
- Due to funding reductions, STAT Courier will be receiving an 85% reduction in service
- Most sites will be removed from the courier service, sites who will remain on the courier service have already been contacted and notified of their day of service
- Email sent in the AM on 6/10/25 reviewing this information
- Updated regional map can be found at: https://www.in.gov/health/laboratories/new!-indiana-courier-system/



NEW Clinical Shipping Requirements

Centers for Medicare and Medicaid Services (CMS) requires the IDOH Laboratory to enforce method specific temperature and timing restrictions for all incoming clinical samples.

This is to ensure sample integrity from the time of collection through the time of testing.

The IDOHL will begin full enforcement on July 1, 2025.



NEW Clinical Shipping Requirements

The sample timing and temperature requirements are on the IDOHL website:

https://www.in.gov/health/laboratories/testing/

Options for shipping samples to IDOHL:

Use STAT Courier, no matter the temperature

 https://www.in.gov/health/laboratories/new!-indiana-couriersystem/



Refrigerated samples without using STAT Courier in accepted shipper

Refrigerated samples (2-8°C) - Use the following shipping container with **two** of the specific ice packs listed.

If the container is received at the IDOHL within 24 hours of shipping, the temperature will be deemed automatically acceptable.







Refrigerated samples without using STAT Courier in accepted shipper

A shipping container that matches VWR item 15713-700 (Multi-purpose dome style foam container assembled in corrugated carton)

- Interior dimensions: 8L×57/8W×41/4"H
- Exterior dimensions: 11L×9W×7½"H
- Thickness = 1.5"



Refrigerated samples without using STAT Courier in accepted shipper

Use **two** frozen ice packs in the shipping container above that match VWR item 89049-980

External Dimensions:

$$11.4 \times 10.1 \times 3.8 \text{ cm} (4\frac{1}{2} \times 4 \times 1\frac{1}{2})$$

- Weight: 425 g (15 oz.)
- Interior dimensions: 8L×57/8W×41/4"H







Refrigerated samples without using STAT Courier in another shipper

Any other method/mode of shipping will require IDOHL personnel to check the temperature of the sample/package upon receipt and reject any samples that are outside of the published requirements (https://www.in.gov/health/laboratories/testing/).



Frozen samples without using STAT Courier

Ship the samples on dry ice – the IDOHL will not have to check the temperature validity of the sample as long as dry ice is still in the container.

Ship the samples with ice packs – the IDOHL will check the temperature of the sample/package upon receipt and reject any samples that are outside of the published requirements.



Submitting other temperature samples without using STAT Courier

If a sample is required to be within a particular temperature range, the IDOHL will check the temperature of the sample/package upon receipt and reject any samples that are outside of the published requirements, no matter how the samples are packaged.

If a sample is not required to be within a particular temperature range, then the IDOHL will not reject any samples based on temperature.



Questions on clinical shipping requirements?

Please contact the IDOHL

idoh-lab-info@health.in.gov

317-921-5500



Measles Update - 6/19/25

- Several large outbreaks of Measles in the United States
 - 750 cases identified in Texas
 - https://www.dshs.texas.gov/news-alerts/measles-outbreak-2025
 - 81 cases identified in New Mexico
 - https://www.nmhealth.org/about/erd/ideb/mog/
 - 79 cases identified in Kansas
 - https://www.kdhe.ks.gov/2314/Measles-Data
 - 36 cases identified in Ohio
 - https://data.ohio.gov/wps/portal/gov/data/view/summary-of-infectious-diseases-in-ohio
 - 12 cases identified in Michigan
 - https://www.michigan.gov/mdhhs/adult-child-serv/childrenfamilies/immunizations/measlesupdates
- 8 cases have been identified in Indiana No new cases since our previous meeting
 - https://www.in.gov/health/idepd/diseases-and-conditions-resource-page/measles/



Measles Update

- Measles PCR Testing is offered through the IDOH Laboratory <u>https://www.in.gov/health/laboratories/testing/measles-pcr/</u>
- Specimens must be pre-approved by IDOH epidemiologists prior to testing
- Important Change: Call 317-233-1325 for preauthorization to send to IDOHL
 - IDOH must be consulted on cases where an MMR vaccination was provided within the previous 45 days. Consultations must happen prior to specimen collection



Questions?

Brian Pope

Director, Virology & Biological Preparedness

(317) 921-5555

bpope1@health.in.gov





IDOH ENTOMOLOGY UPDATE

LEE GREEN

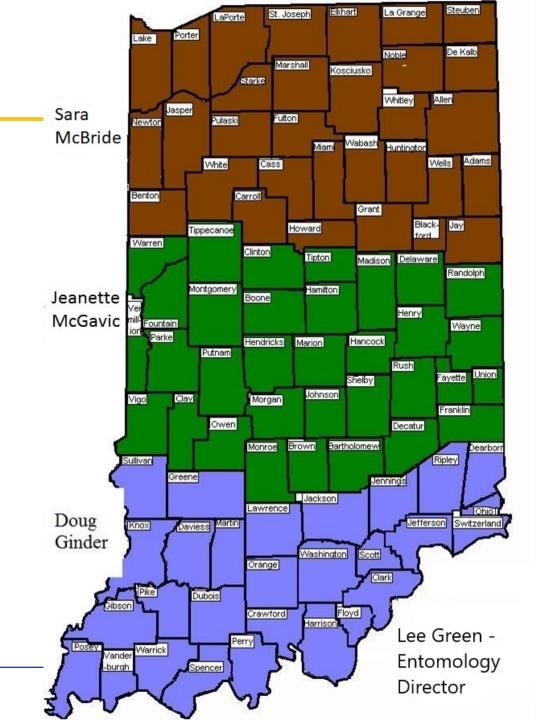
SENIOR MEDICAL ENTOMOLOGIST

6/19/2025

Who We Are

- Medical Entomologists (4)
 - Director Lee Green
 - Northern IN Sara McBride
 - Central IN Jeanette McGavic
 - Southern IN Doug Ginder
- Vector-borne Epi (1)
 - Kira Richardson
 - NEW LAB LOCATION in 2023





What We Do

Mosquito-borne Diseases

- West Nile virus
- St. Louis encephalitis
- Eastern equine encephalitis
- LaCrosse encephalitis
 - Dengue fever
 - Chikungunya
 - Malaria
 - Zika

Tick-borne Diseases

- Lyme disease
- Spotted Fever Group Rickettsioses
- Ehrlichiosis
- Anaplasmosis
- Tularemia
- Babesiosis
- Non-Lyme Borrelioses



What We Do

Mosquito-borne Diseases

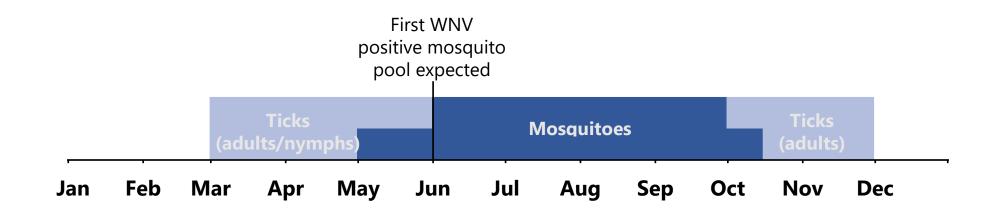
- West Nile Virus
- St. Louis encephalitis
- Eastern equine encephalitis
- LaCrosse encephalitis ????
 - Dengue fever
 - Chikungunya
 - Malaria
 - Zika

Tick-borne Diseases

- Lyme disease
- Spotted Fever Group Rickettsioses
- Ehrlichiosis
- Anaplasmosis
- Tularemia
- Babesiosis
- Non-Lyme Borrelioses



Entomology Projects





Mosquito Surveillance



















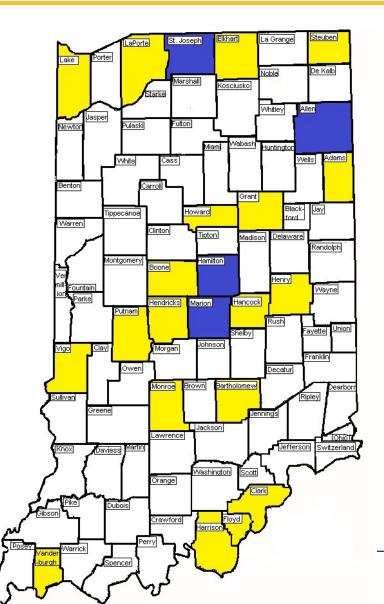


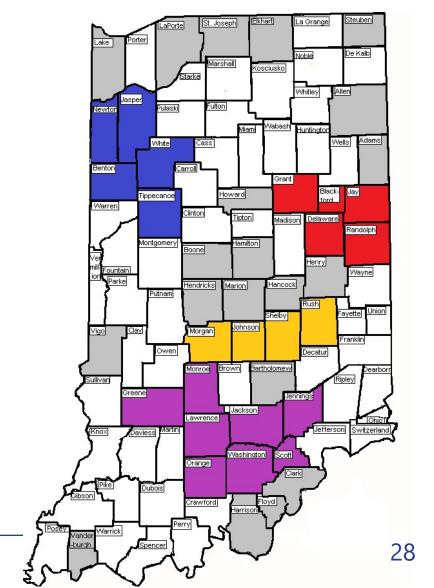
Surveillance Network

2024 Entomology Interns

LHD Traps and Tests

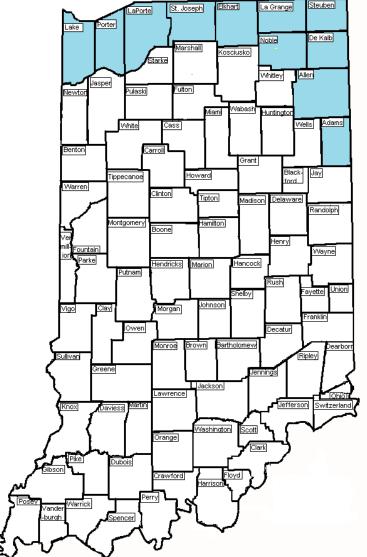
LHD Traps







Eastern Equine Encephalomyelitis Mosquito Surveillance



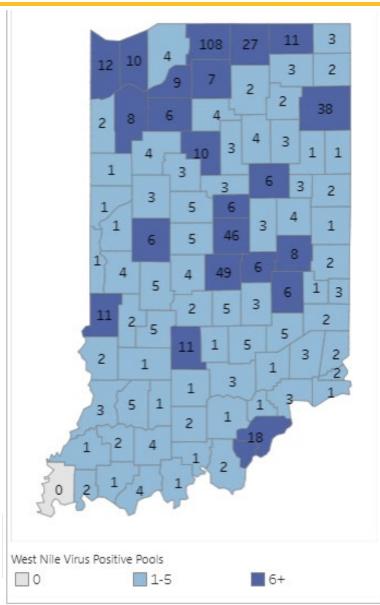


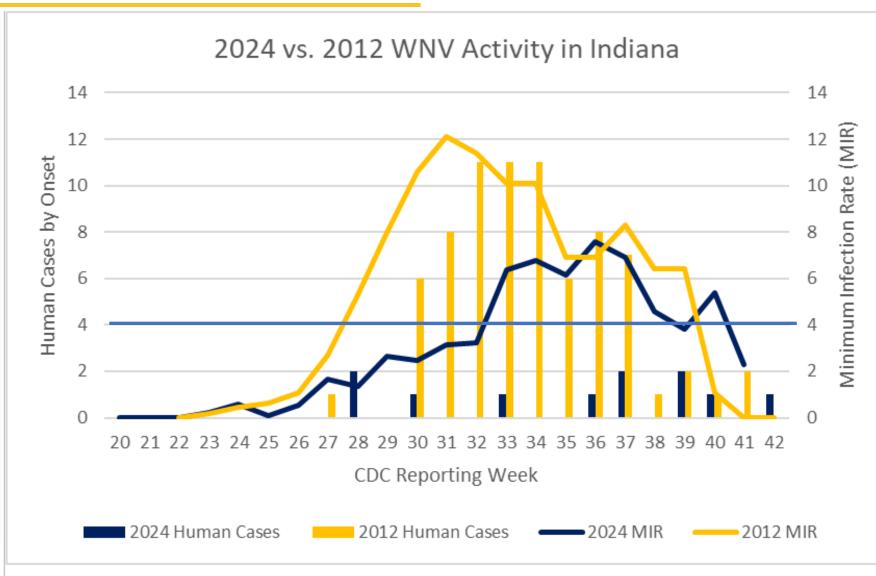




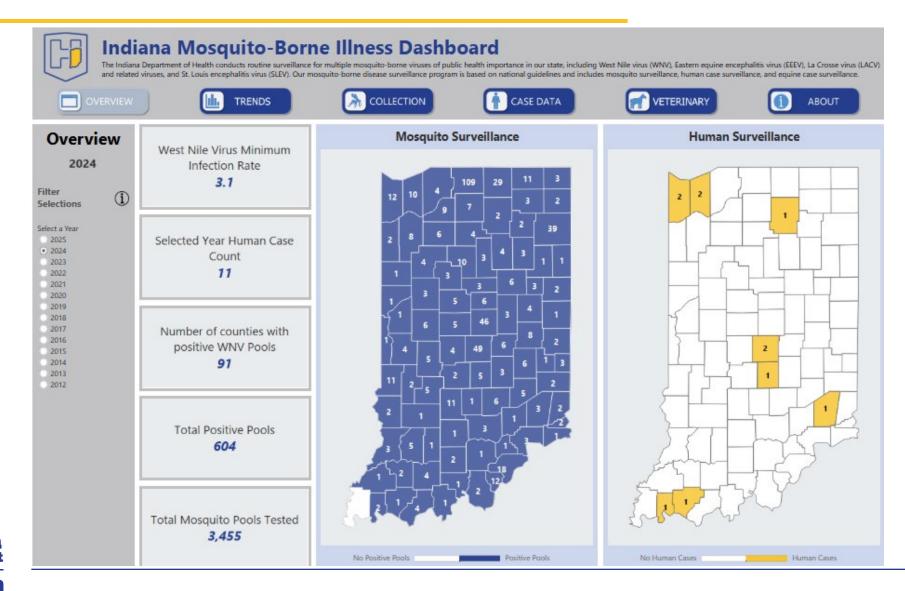


2024 WNV Positive Mosquito Pools



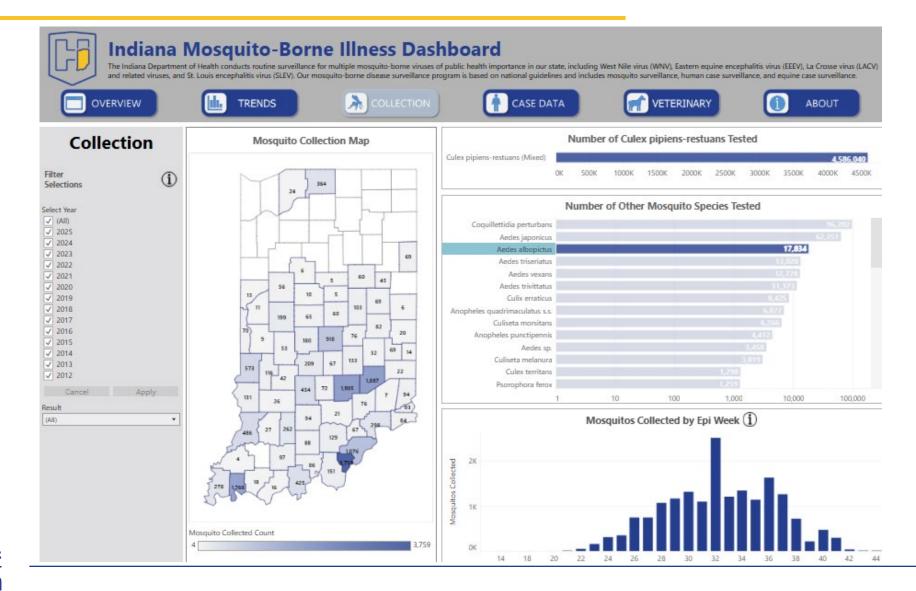


New Dashboard





New Dashboard



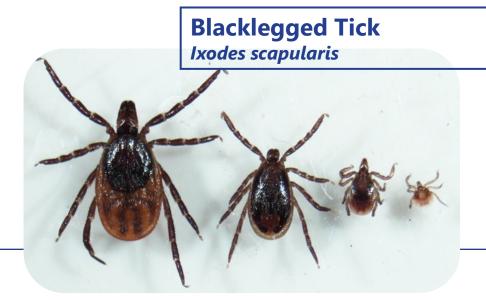


Ticks of Medical Importance in Indiana - 2017





Brown Dog Tick *Rhipicephalus sanguineus*









Ticks of Medical Importance in Indiana - 2023





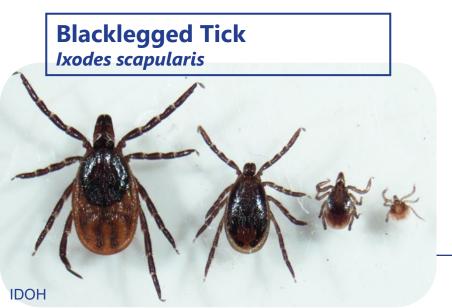
CDC



Gulf Coast Tick

Amblyomma maculatum

Brown Dog Tick *Rhipicephalus sanguineus*



Asian Longhorned Tick *Haemaphysalis longicornis*



Lone Star Tick

Amblyomma americanum

NEW TICK DASHBOARD!

https://www.in.gov/health/idepd/zoonotic-andvectorborne-epidemiology-entomology/vectorborne-diseases/tick-borne-diseases/



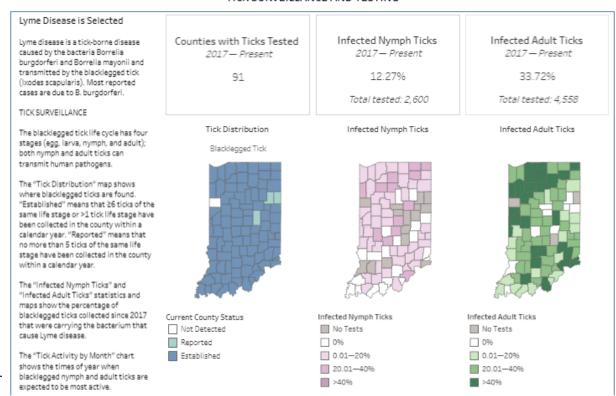
Indiana Tick-borne Disease Surveillance

Tick surveillance data last updated 11/15/2023. Case surveillance data last updated 3/5/2024. Start with filter selections below, which apply to everything on this page

For best results, clear all filter selections before selecting a new disease (refresh the webpage or hover over a multi-select filter and find the "Click to Show All Values" option: a funnel icon with a red x)

Select Disease	Select Pathogen(s)	Se	elect Tick Type(s)	
Lyme Disease ▼	(AII)	[B	Blacklegged Tick	*

TICK SURVEILLANCE AND TESTING



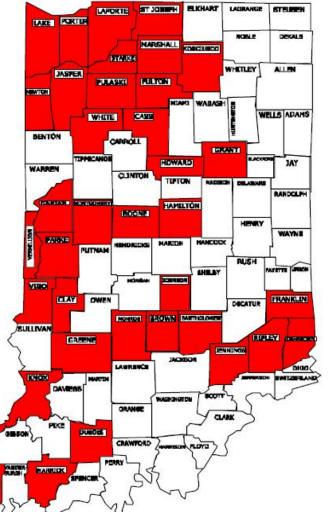


Tick Surveillance - Ixodes scapularis













Biology of Ixodes scapularis

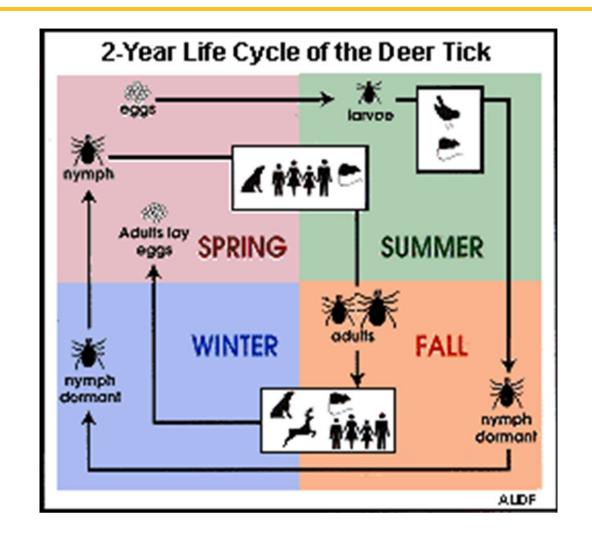
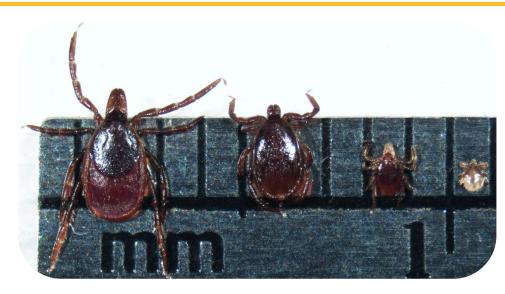


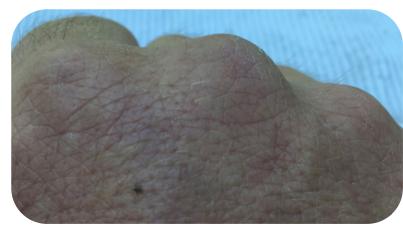


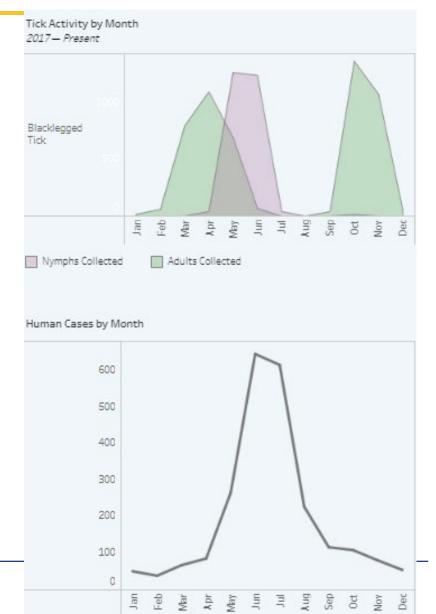
Photo: L. Green IDOH



Blacklegged Tick Phenology and Lyme Disease



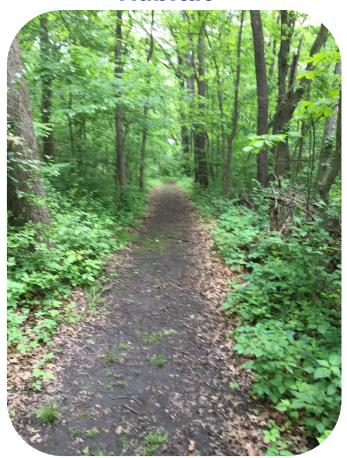






Biology of Ixodes scapularis

Habitat









Percentage of adult *Ixodes scapularis* ticks infected with *Borrelia burgdorferi*, 2017-2024





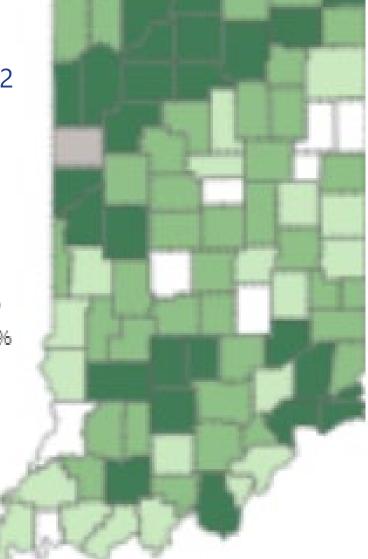


No Tests

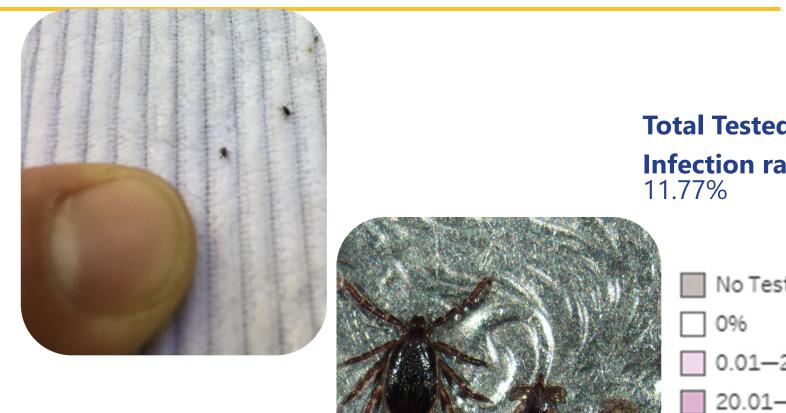
0%
0.01—20%
20.01—40%

>40%

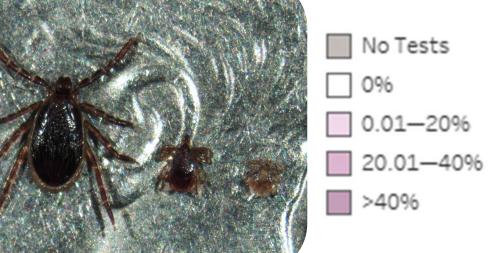




Percentage of nymph Ixodes scapularis ticks infected with Borrelia burgdorferi, 2017-2024





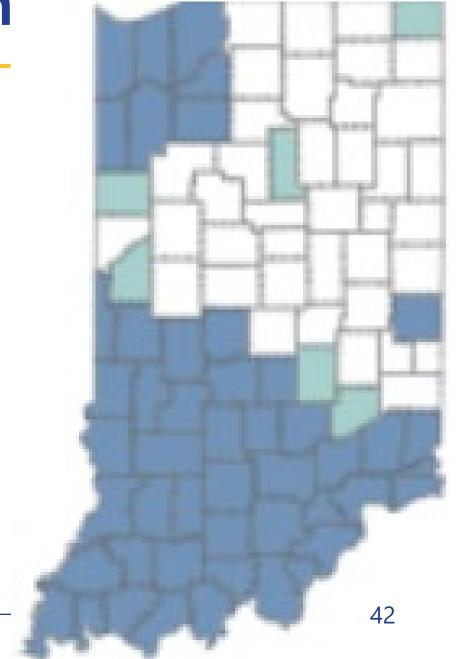






Lone Star Tick Distribution

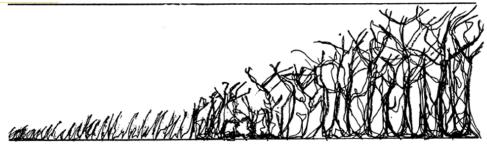






Amblyomma americanum Habitat





	Grasses			Brush or low trees	Medium trees	Climax forest
Tick stage sampled	>2 ft	2-4 ft	<4 ft	20 ft	20-40 ft	40 ft +
	63	272	73	Number samples takes 39	323	96
	Average number of ticks/sample					
Adults	.8	1.3	1.8	6.2	2.2	.9
Nymphs	4.8	4.4	9.7	146.0	10.9	7.2

Figure 2. Average number of adult and nymphal ticks collected per sample from within or under different vegetative types according to overstory height in Cookson Hills State Game Refuge during June and July, 1969.

Hair, Jakie A., and Dariel Elza Howell. "Oklahoma Agricultural Experiment Station, Bulletin no. 679, July 1970: Lone star ticks; Their biology and control in Ozark recreation areas." (1970)

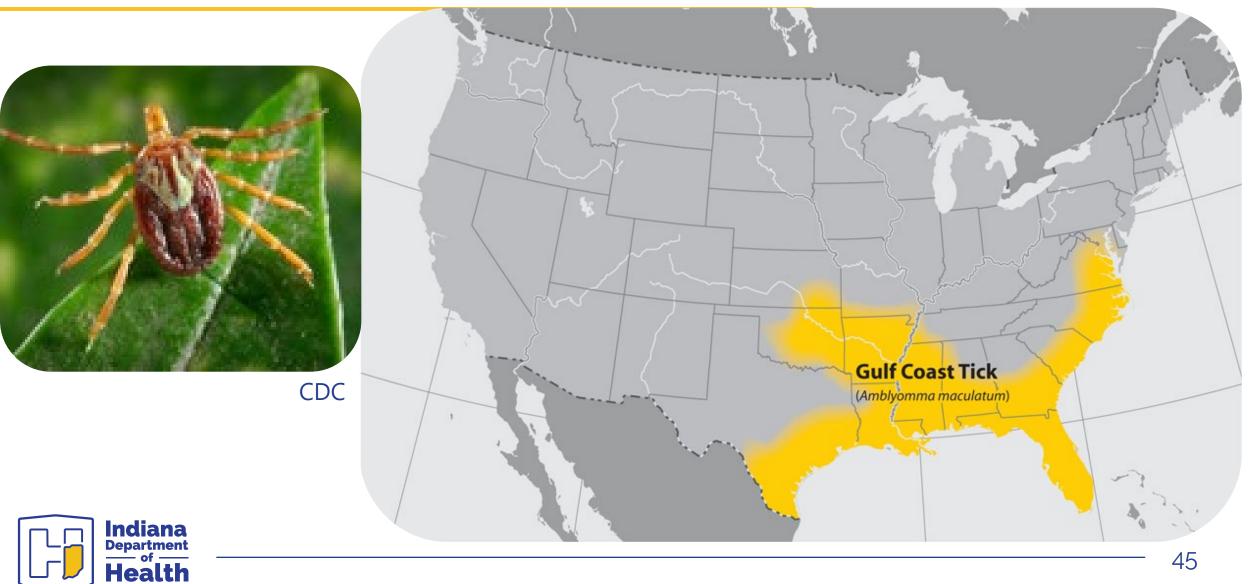


Alpha-gal syndrome

- Alpha-gal (galactose- α -1,3-galactose) is a sugar molecule found in most mammals (except in people, apes, and monkeys)
- Alpha-gal is <u>not</u> normally found in fish, reptiles, or birds
- An alpha-gal allergy is an allergy to the alpha-gal sugar molecule. Allergic reactions typically
 occur after people eat meat from mammals that have alpha-gal or are exposed to products
 made from mammals
- Most cases of alpha-gal allergy have been reported in the southeastern and midwestern United States
- Both children and adults can develop alpha-gal allergy; however, most cases of alpha-gal allergy appear to be in people >50 years of age



Amblyomma maculatum – Gulf Coast Tick

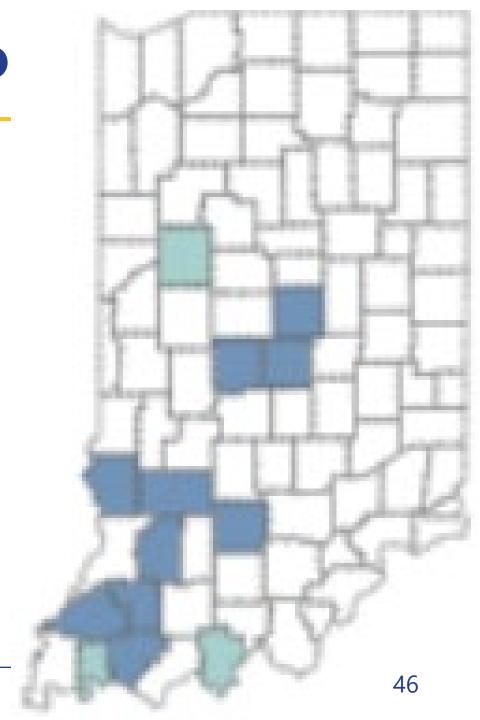


Gulf Coast Tick Distributio



Photo: U of FL Ento





Amblyomma maculatum Habitat

- Grass/shrub land
- Populations decrease if canopy is allowed to close in (Nadolny and Gaff 2018)
- Xerophilic
- Better adapted to burned habitat than LST (Gleim et al. 2013)
- Immature stages hard to find/ freshly mowed grass fields (Nadolny and Gaff 2018)



IDOH



Haemaphysalis longicornis - Asian Longhorned Tick





L. Beati, Georgia Southern



USDA



Asian Longhorned Ticks

April, 2023

IN is 19th State with confirmed ALHTs.

4/13/2023

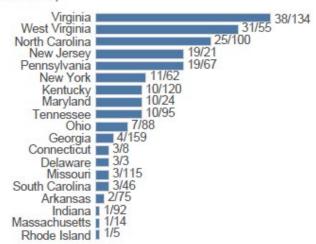
-Environmental collection in Switzerland Co, IN

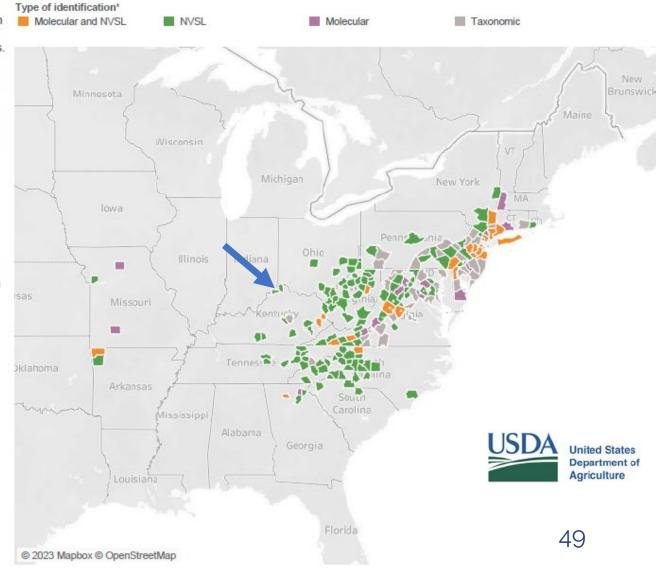
-Single nymph

Haemaphysalis longicornis (Asian longhorned tick), an exotic East Asian tick, has never previously established a population in the United States. It is a known serious pest of livestock in the Australasian and Western Pacific Regions where it occurs. It is an aggressive biter and frequently builds intense infestations on domestic hosts causing great stress, reduced growth and production, and severe blood loss.

The tick can reproduce parthenogenetically (without a male); as such, a single fed female tick can create a population. It is also a known/suspected vector of several viral, bacterial, and protozoan agents of livestock and human diseases. This three-host tick can spread pathogens among a diverse host range, on which it feeds side-by-side with other tick species. The detections detailed here are the first reports of this tick out of quarantine in the United States.

States with confirmed local Asian longhorned tick populations with number of counties in each state. (# of confirmed counties / total # of counties)

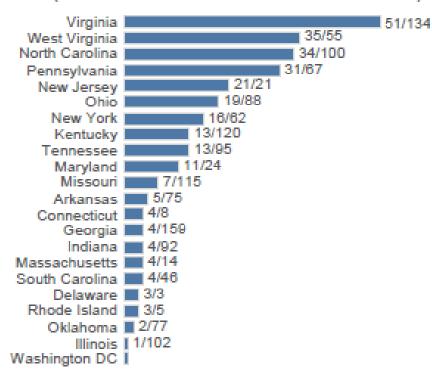




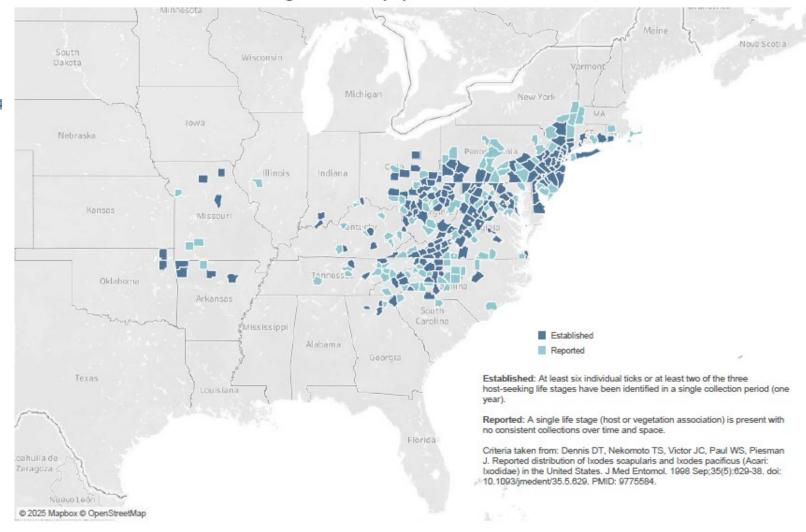


ALT Distribution

States with confirmed local Asian longhorned tick populations with number of counties in each state. (# of confirmed counties / total # of counties)



Counties with established Asian longhorned tick populations

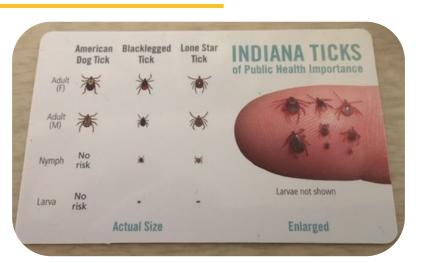




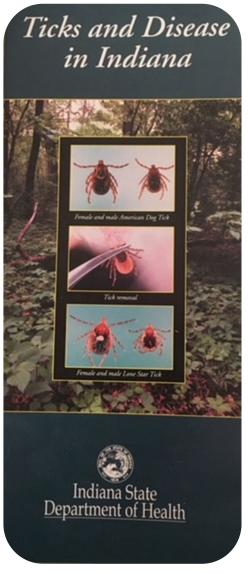


Questions?

- Lee Green <u>legreen@health.in.gov</u>
- Director (317) 517-5843
- Sara McBride <u>smcbride@health.in.gov</u>
- Central Indiana (574) 347-5102
- Jeanette McGavic <u>imcgavic@health.in.gov</u>
- Central Indiana (317) 995-3121
- Doug Ginder <u>dginder@health.in.gov</u>
- Southern Indiana (317) 501-6349











Question & Answer Session



Questions?

IDOH Laboratory
317-921-5500
IDOH-lab-info@health.in.gov

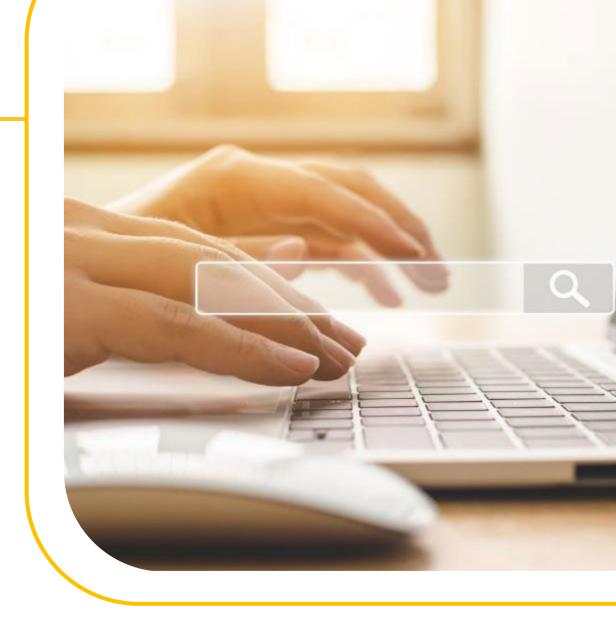


Next webcast

The next Indiana Laboratory
System webcast is scheduled
for:

Date: Thursday, July 10

Time: 10:30 – 11 a.m. EDT









THANK YOU FOR JOINING THE WEBCAST!