



# IDPH Vector Surveillance and Control Program

Samantha Kerr, MS

### **Tickborne Illnesses**

Anaplasmosis

Babesiosis

Ehrlichiosis

Lyme Disease

Rocky Mountain Spotted Fever

Tularemia

**Common Ticks** 

Tick Surveillance Map

Vector Control & Surveillance

# Tickborne Illnesses

PUBLICATIONS >



## **Anaplasmosis**

Anaplasmosis is an illness spread by ticks infected with the bacteria Anaplasma phagocytophilum. These bacteria can be spread to humans by blacklegged ticks (Ixodes scapularis), also known as deer ticks.

### **Babesiosis**

What is Babesiosis? Babesiosis is caused by microscopic parasites that infect red blood cells. Babesia microti is the main species that has been found in people in the United States. How do people get



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# **Publications**

Illinois ABC's of Tickborne Disease (Preschool - Grade 2) - Color

Illinois ABC's of Tickborne Disease (Grade 3 - Grade 6) - Color

Illinois ABC's of Tickborne Disease (Preschool - Grade 2) - Black & White

Illinois ABC's of Tickborne Disease (Grade 3 - Grade 6) - Black & White

Tick and Mosquito Prevention Camper Checklist

Notification to Parent/Guardian of Tick Found on Student

Notification of Field Trip Tick Alert

Illinois Tick Detectives Workbook

Don't Let a Tick Make You Sick Flyer

Rocky Mountain Spotted Fever Pocket Card

Lyme Disease Pocket Card

Reported Tickborne Cases 2012-2022

Tickborne Disease Incidence Maps

Tick Prevention Poster



### **NOTIFICATION OF FIELD TRIP**

#### **TICK ALERT**

Your child is scheduled to take part in an outdoor activity in an area that ticks may inhabit. While we will take precautions to prevent unnecessary exposure, you should thoroughly check your child is body when they return home and for several days following the trip. Below are suggestions on how to protect your child from tick bites and what you should do if your child is bitten.

Children should be taught to seek adult help for tick removal. Improper removal can increase the risk of disease transmission. Do not crush, burn, or try to smother the tick, as it may release infected fluids.

leacher's Name:	Date of Trip:
Location of Trip:	

#### REDUCE CHANCES OF A TICK BITE

Encourage children to walk in the center of the trails.

- Wear light-colored long pants and long sleeves so you can easily see any ticks. Wear socks and sneakers. No sandals.
- Tuck the shirt into pants and tuck the pants into socks.
   Consider using U.S. Environmental Protection Agency (EPA)-registered insect repellents containing DEET, picaridin, IR3535, Oil of Lemon Eucalybus (OLL), para-menthane-diol (PMD), or 2-undecanone. Do not use products containing OLE or PMD on children under 3 years old. Follow all product label directions.
- If you are using sunscreen, apply sunscreen first and insect repellent second.
- Consider pre-treating clothing with products containing 0.5% permethrin. Follow all product label directions.
- Do a thorough tick check upon returning inside, when your child gets home, and for several days following the trip.
   Here's where to look:





#### WHAT TO DO IF BITTEN

- Use clean, fine-tipped tweezers to grasp the tick as close to the skin's surface as possible. Do not grasp the body of the tick.
- Pull upward with steady, even pressure. Don't twist or jerk the tick; this can cause the mouthparts to break off and remain in the skin. If this happens, remove the mouthparts with tweezers. If you cannot remove the mouth easily with tweezers, consider contacting your health care provider.
- After removing the tick, thoroughly clean the bite area and your hands with rubbing alcohol or soap and water.
- Never crush a tick with your fingers. Dispose of a live tick by putting it in alcohol, a sealed bag/container, or wrapping it tightly in tape. Consider saving the tick in a bag for identification.
- Note the person's name, date, bite site, and estimated tick attachment duration.
- Consult a health care provider if a rash, fever, or flu-like symptoms develop within several weeks of tick removal.
- Visit the IDPH website for more information: https://dph.illinois.gov/ticks





### Notification to Parent/Guardian of Tick Found on Student

This notification informs you that a tick was found and removed from a student per the Centers for Disease Control and Prevention (CDC) tick removal guidelines. The tick has been taped to the bottom of this sheet in case it is needed for identification or diagnostics.

Student Name:

Body Location	# of Ticks Removed

#### MONITOR FOR SYMPTOMS OF TICKBORNE DISEASE

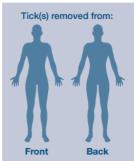
Ticks found in Illinois and other nearby states carry germs that can transmit disease and make people sick. You should contact your child's health care provider if you notice any signs or symptoms of illness, such as fever, flu-like symptoms, or a skin rash for several weeks following the tick bite. Most tickborne diseases can be treated with antibiotics if recognized and diagnosed promptly.

The most common illness caused by ticks that bite and attach for more than 24 hours is Lyme disease. Lyme disease symptoms include fever, chills, headache, tiredness, muscle and joint aches, swollen lymph nodes, and a bullseye rash or atypical rash A bullseye rash only occurs in 70-80% of infected persons. Other tickborne illnesses, which can transmit in under 24 hours, include spotted fever group rickettsiosis, ehrlichiosis, and anaplasmosis. Symptoms of these illnesses can be similar to Lyme disease but can also include spotted rash, nausea, vomiting, diarrhea, and loss of appetite.

For more information about ticks and how to prevent bites, visit: https://dph.illinois.gov/ticks









TAPE TICK(S) HERE



Please dress appropriately.

Printed by Authority of the State of Illinois 2/25

Developed in collaboration with the

OCI 25-1323 BT0

Printed by Authority of the State of Illinois 2/25

IOCI 25-1323 ET4



**Tick and Mosquito Prevention** 

### **CAMPER CHECKLIST**

### Getting ready for summer?

Use a checklist to make sure that you have the tools on hand to prevent tick and mosquito bites.





#### Ticks and mosquitoes

are common at outdoor events and camps in Illinois.

#### West Nile Virus

is the most common disease you can get from mosquitoes in Illinois.

#### Lyme disease

is the most common disease you can get from ticks in Illinois (and the United States).

Less common diseases that you can get from ticks in Illinois include:

- Anaplasmosis
- Babesiosis
- Ehrlichiosis
- Spotted fever group rickettsioses

Developed in collaboration with the Illinois Lyme Association



#### https://dph.illinois.gov/ticks



### BEFORE CAMP

- Pack insect repellent.
- Select a repellent that is U.S. EPA-registered for ticks and mosquitoes. Look for ingredients like DEET, picaridin, oil of lemon eucalyptus, or IR3535.
- Spray clothes, shoes, and gear with permethrin.
- Permethrin is an insecticide that kills ticks and mosquitoes on contact. You can use permethrin to pre-treat shoes, clothes, sleeping bags, tents, and other gear.
- Pack a tick removal too

Pack a tick remover, such as tweezers, for removing ticks in case you find a tick attached to your body.

#### AT CAMP

- Use insect repellent every day.
  - Spray your exposed skin and over your clothes every morning and reapply throughout the day.
- Check for ticks regularly.
  - Check for ticks throughout the day. Good times to encourage campers to conduct a thorough tick check are at meals, before swimming, during shower time, and at the end of the day.
- Remove any ticks you find promptly.

Encourage campers to ask an adult for help.

#### AFTER CAMP

- Place all clothes and washable gear in the dryer.
- Dry clothes for 10 minutes on high heat to remove any ticks that may be on them.
- Shower after returning from camp.
- Soap and water can remove any ticks that are crawling.
- Watch for tick and mosquito disease signs.

If you feel sick with flu-like symptoms (especially during the summer) like fever, joint or body aches, headaches, nausea, vomiting, diarrhea, or a rash, see a health care provider.

Adapted from the Pennsylvania Department of Health's Camp Checklist

Printed by Authority of the State of Illinois 2/25



# Tick Bite: What to Do

Tick bites can make people sick. Below are some steps that you can take after a tick bite to reduce your chances of getting sick and how to get treatment promptly if you do get sick.

### Remove the tick as soon as possible

- 1. Use fine-tipped tweezers to grasp the tick as close to the skin as you can.
- 2. Pull upward with steady, even pressure. Don't twist or jerk the tick.
- After removing the tick, clean the bite area and your hands with rubbing alcohol or soap and water.
- 4. Dispose of the tick by flushing it down the toilet. If you would like to bring the tick to your health care provider for identification, put it in rubbing alcohol or place it in a sealed bag/









### Consider calling your health care provider

In general, the Centers for Disease Control and Prevention (CDC) does not recommend taking antibiotics after tick bites to prevent tickborne diseases. However, in certain circumstances, a single dose of doxycycline after a tick bite may lower your risk of Lyme disease. Consider talking to your health care provider if you live in an area where Lyme disease is common.

### Watch for symptoms for 30 days

Call your health care provider if you get any of the following:

- Fever
- Muscle pain
- Fatique
- Joint swelling and pain

Treatment for tickborne diseases should be based on symptoms, history of exposure to ticks, and in some cases, blood test results. Most tickborne diseases can be treated with a short course of antibiotics.



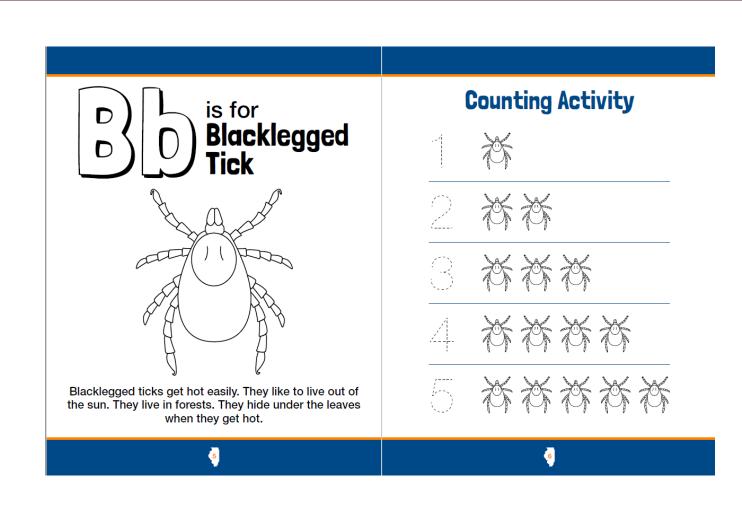






An activity book for Preschool - Grade 2



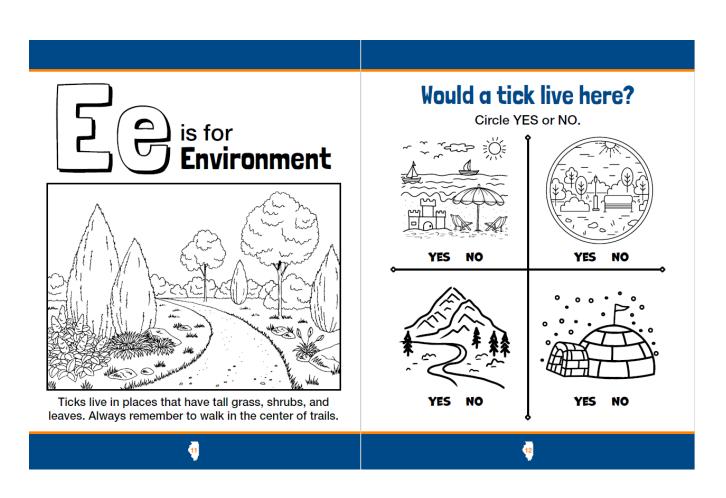






An Activity Book for Grade 3 to Grade 6







# Illinois Tick Detectives Workbook







### **Find The Tick Habitats**

Circle the places where ticks might live in the pictures below.











### **How Do I Protect Myself From Ticks?**

Year-round tick bite prevention is the best defense against Lyme disease.





Have an adult help you put on insect repellent (bug spray) before you go outside. Have them find one that is registered by the U.S. EPA on this website: https://www.epa.gov/insect- repellents/ findrepellent-right-you

Have an adult pre-treat your shoes and clothes with permethrin, a spray that lasts through many washes and can protect you for a long time. Permethrin kills ticks when used to treat shoes, clothes, and gear. It should not be put on the skin.





Stay in the middle of the trail in the woods and avoid tick-risky habitats (leaf piles, brush, wood piles).

Shower and check for ticks after being outside. This can help you get ticks off you before they have time to attach and eat. Be sure to have an adult help you check all the spots in the picture to the right.







# **Tickborne Illnesses** Anaplasmosis Babesiosis Ehrlichiosis Lyme Disease Rocky Mountain Spotted Fever Tularemia **Common Ticks** Tick Surveillance Map

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# Tickborne Illnesses

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### **Babesiosis**

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# **Lyme Disease**

Select an image to the right for more information on Lyme Disease.









3 Lyme Disease in Humans Dashboard

**Heartland Virus** 

**Alpha-gal Syndrome** 

**Longhorned Tick** 

How is Lyme Disease Spread Surveillance Incubation Period and Symptoms Treatment Resources



### Late Symptoms (2-6 Months)

Late-stage Lyme disease usually affects the musculoskeletal system. Lyme arthritis occurs with severe joint pain and swelling in large joints, such as knees.

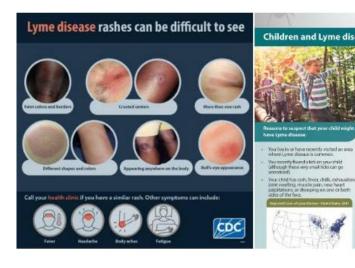
### **Treatment of Lyme Disease**

People treated with appropriate antibiotics in the early stages of Lyme disease usually recover rapidly and completely. The antibiotics most commonly used to treat Lyme disease include doxycycline, amoxicillin, or cefuroxime axetil. Most cases of Lyme disease can be treated with 10 to 14 days of antibiotics. Early diagnosis and proper antibiotic treatment of Lyme disease can help prevent more severe disease.

Some patients report prolonged symptoms of pain, fatigue, or difficulty thinking even after treatment for Lyme disease. The state of the science relating to prolonged symptoms associated with Lyme disease is limited, emerging, and ongoing, Additional research is needed to better understand how to treat, manage, and support people with prolonged symptoms associated with Lyme disease.

### Resources

viiiviiiivuuu uv ajiiiv





### Nagnosing Lyme disease

Your child's healthcare provider may treat him or her for Lyme disease based on symptoms or may decide to run blood tests. Blood testing for Lyme disease is more accurate 4-6. weeks after the start of the illness than in the first days or weeks of illness.

#### Treating Lyme disease

People treated with antibiotics in the early staces of lyme disease usually recover rapidly Children who are diagnosed with Lyme disease should be treated with antibiotics

Your child has rash, fever, child, cohaustion, sont swelling, muscle part, new heart patchtations, or decoping on one or both sides of the face. promptly. A typical treatment course for children of all ages with early Lyme disease would be 10 - 21 days of dooycycline.

recently found a tick on your child

limating early in the course of disease is important to prevent rare complications of Lyme disease, such as joint, heart, or nerve problems.

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Los niños y la enfermedad de Lyme

azones para sospechar que su hijo odría tener la enfermedad de Lyme

# El prevendor de atención medica de su hijo podris

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- Wear dothing treated with permethrin.

Shower as soon as possible after spending

Check for ticks daily. Ticks can hide under the angels, behind the knees, in the has, and in the groin.

#### Protect yourself:

registered insect repollents containing DEET, picandia, IRSSBS, oil of lemon outralygous, para menthano diot or 7 undecarrone. Always follow product instructions

How to prevent tick bites

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Contrate nell polish, petroveum jelly, or a hot match to make the lick detech-

- if sick mouth party remain in the skin, leave them alone, in most cases, they will fall out in a few days.

Herrove the tick as soon as possible to reduce your chances of petting as infection from the tick bits.

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2. Pull upward with steady, even pressure to

1. Clean the bite area and your hands with

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# Cómo prevenir las picaduras de garrapatas





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# **Lyme Disease**

Select an image to the right for more information on Lyme Disease.









3 Lyme Disease in Humans

Dashboard



Lyme Disease

Lyme Disease Overview

Lyme Disease in Ticks Dashboard

Lyme Disease in Humans Dashboard

### Lyme Disease in Ticks

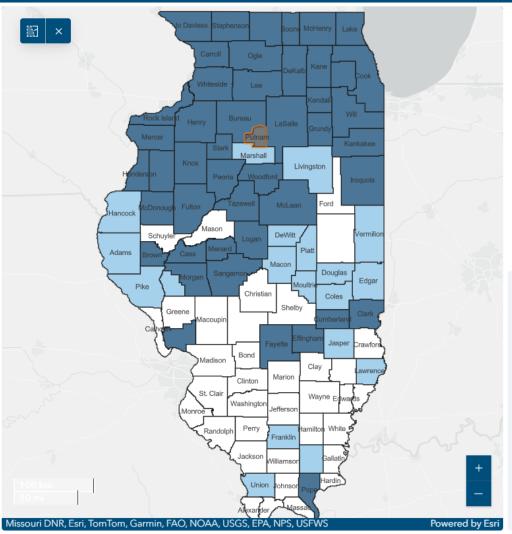
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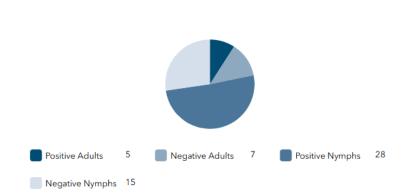
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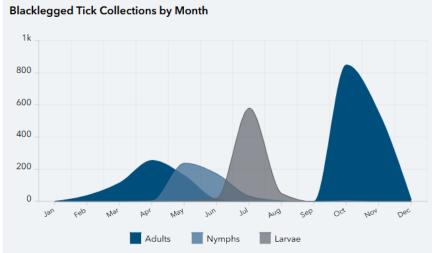
### **Tick Surveillance in Putnam County**

Blacklegged Tick Population Established Lyme Disease Status in Ticks Detected Number of Ticks Tested 56 **Number of Ticks Positive** 33



# Blacklegged Ticks Tested for Lyme Disease in Putnam County







# **Lyme Disease**

Select an image to the right for more information on Lyme Disease.







2 Lyme Disease in Ticks Dashboard



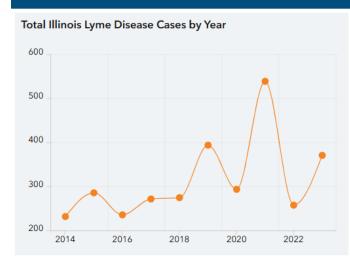


Lyme Disease

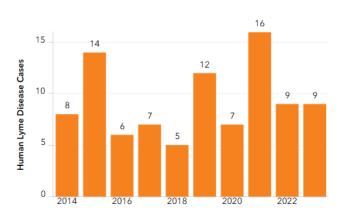
Lyme Disease Overview

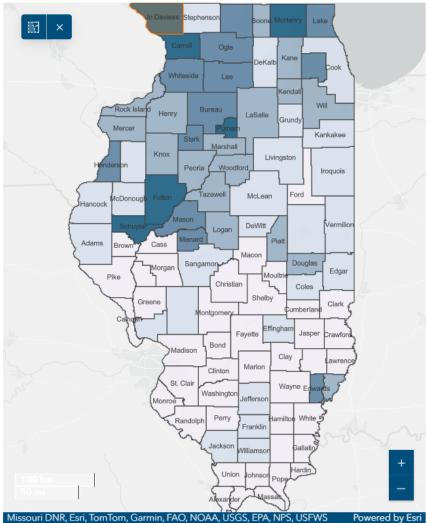
Lyme Disease in Ticks Dashboard

Lyme Disease in Humans Dashboard



Human Lyme Disease Cases in Jo Daviess County





### Lyme Disease in Humans

3-Year Average Human Incidence Rate (2021-2023)

### Jo Daviess County Lyme Disease Summary

Blacklegged Tick Established Population Status Lyme Disease in Ticks Detected

**Total Human Cases** (2021-2023)

3-Year Average Human Incidence Rate (2021-2023)

34

51.43

### Want more information?

For more information including symptoms, disease transmission, and prevention strategies, click the image above.