



Tick embedded in skin and hallmark "bull's eye" Lyme disease rash

What is Lyme disease

- Lyme disease is caused by *Borrelia burgdorferi*, a bacterium
- The disease is spread by Ixodes ticks, seen in the photo above, which are an acarid vector
- White-tailed deer are not a competent reservoir host for Lyme disease, but they play a critical role in the life cycle of ticks

What are the signs and symptoms

- Early stage: red, oval, or round rash, fever, chills, headache, and muscle/joint pain
- Late stage: facial palsy, dizziness, nerve pain, irregular heartbeat, severe headaches, and neck stiffness

Oxford Area Foundation

About Us

The mission of the Oxford Area Foundation is to protect and restore critical natural areas and waterways for public benefit, and to educate the community to create a legacy of a healthy, sustainable environment for future generations.

In addition, the Oxford Area Foundation provides funding to non-profit organizations that offer services and programs in the Oxford, Pennsylvania, area.

Contact Us

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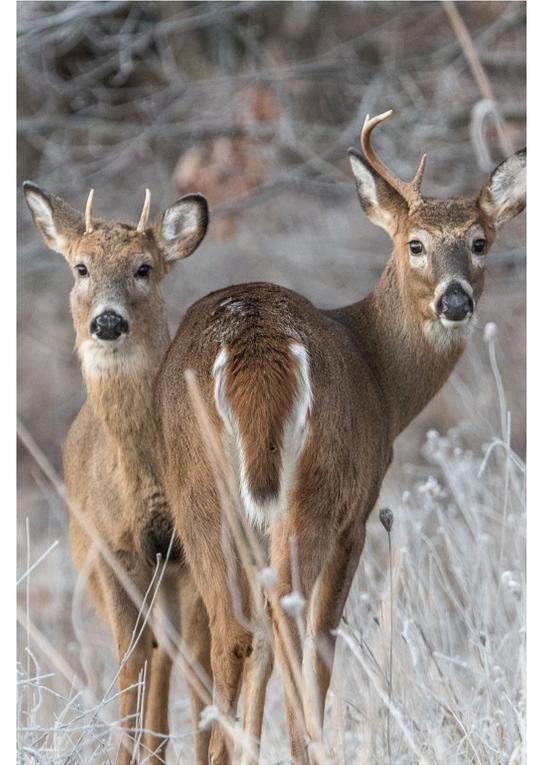
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LYMES DISEASE INFORMATION AND PREVENTION AT GLENROY PRESERVE

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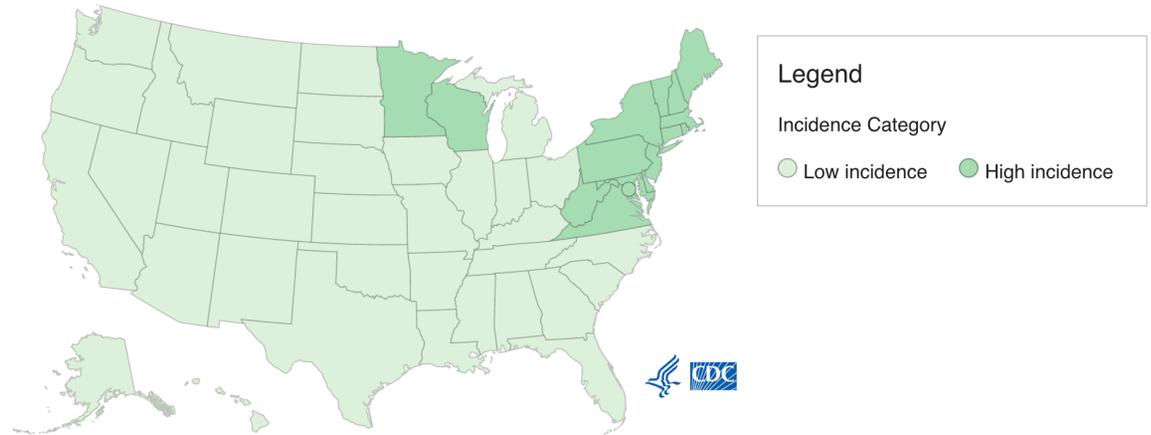
*Funding provided by Lyme
Disease Association*

What are we doing to prevent Lyme disease at Glenroy Preserve?



Education and Lyme Disease Prevention devices

We have installed several four poster feeders throughout the Glenroy Preserve located in areas with significant deer traffic. The feeders are designed to apply an insecticide to the head, neck, and ears of the deer while they feed on corn. Each feeder has signage about the devices, information is posted on our website and bulletin board, and all tours are educated on Lyme disease prevention.



Current statistics for Lyme disease in the United States and Pennsylvania

In the northern hemisphere, Lyme disease is the most common vector borne disease. Approximately 300,000 people in the US are affected by it every year. Pennsylvania has the highest incidence of Lyme disease in the US. The CDC estimates there may be 100,000 cases in Pennsylvania every year

How do four-poster tick devices help control Lyme Disease

The insecticide, permethrin, that is applied to the deer helps control the *ixodes scapularis*, or deer-tick, population. Research shows that using four poster tick devices with permethrin may result in a 46-70% reduction in nymphal ticks. (<https://doi.org/10.3389/fcimb.2020.607170>)

Where to get more information and who is the Lyme Disease Association

The Lyme Disease Association is a non-profit organization. Its mission is promoting awareness of and controlling the spread of Lyme and other tick-borne diseases (TBD) and their complications through education and other means; raising and distributing funds for Lyme and tick-borne diseases (TBD) research, education and other related Lyme and TBD issues; assisting underprivileged patients in connection with Lyme and other TBD.

<https://lymediseaseassociation.org/>