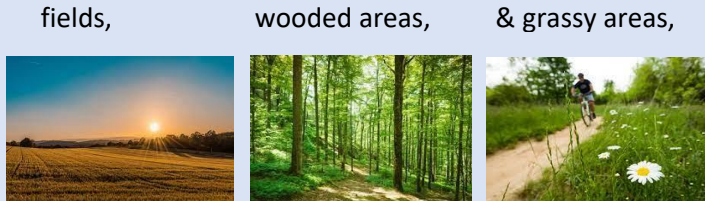


TICKS ON THE RISE IN THE HUDSON VALLEY

By: Emma Butzler, Katey Samarro, Hartley WalkerMoney, Gabe Mongeau
Advisor: Dr. Zion Klos (zion.klos@marist.edu)

What is a tick?

A small parasitic organism that lives in:



and attaches to a host to survive.

Hosts include

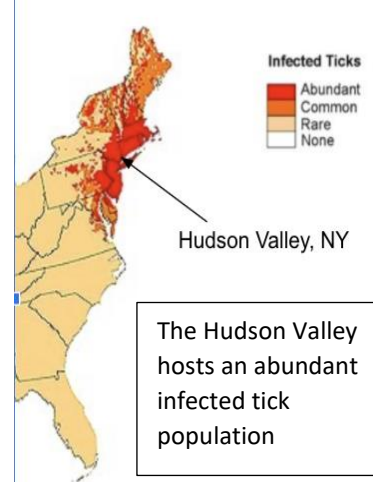
us!
&
animals



Why care?

- ❖ Carriers of disease (& are transmitted to mammals)
 - Lyme Disease
 - Rocky Mountain Spotted Fever
- ❖ Effects from infection can be harmful and long-term to humans and animals alike

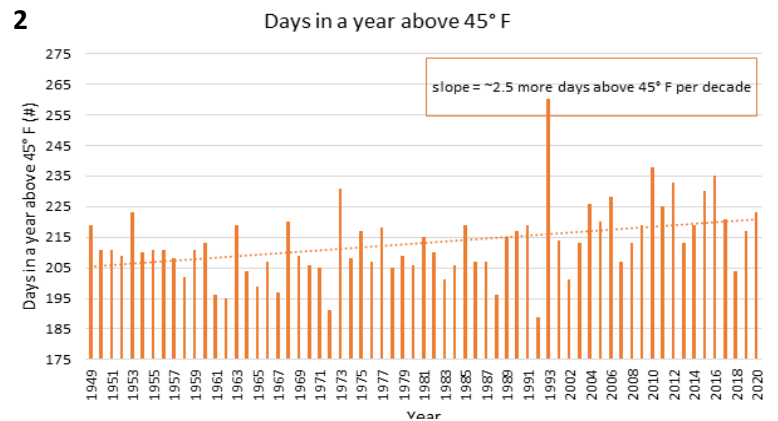
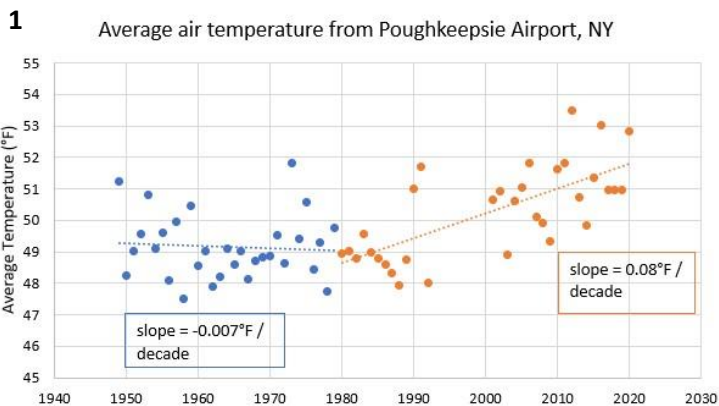
The Hudson Valley: the perfect habitat for ticks



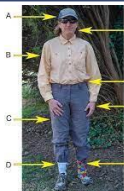
The Hudson Valley hosts an abundant infected tick population

Uptick in Ticks

Ticks are most active when the temperature is 45 degrees F and higher. Current data indicate the temperature in the Hudson Valley has been steadily rising over the past 4 decades (figure 1). The rise in days over 45 degrees is increasing, seen in Figure 2, provides a more viable environment for tick activity and biting. As climate change intensifies, temperature is projected to rise year-round.



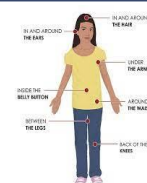
Tick prevention and awareness is key to safely enjoy the outdoors!



- long-sleeved shirt
- long pants
- closed toed shoes
- and tucked in socks



Be aware of
your
surroundings



Tick check! Check
yourself,
family/friends &
pets daily!!

"Science for the Future of Our Planet." Cary Institute of Ecosystem Studies, www.caryinstitute.org/.

"Preventing Tick Bites." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, 1 July 2020, www.cdc.gov/ticks/avoid/on_people.html.

Dixon, Alan. "Best Lyme and Zika Prevention for Hiking." Adventure Alan, Alan Dixon 1 Aug. 2018, www.adventurealan.com/best-lyme-and-zika-prevention-hiking/.