More Ticks In More Places...
...and likely even more to come!
More Ticks In More Places...
...and likely even more to come!

THAT’S A PROBLEM
Hey, there’s a deer in the backyard! Now we’re all gonna get Lyme 😁

I can’t believe how many ticks I found on the dog today. We only walked in the neighborhood.

Do you think we should spray the yard with Cedar Oil? They say it kills ticks.

Aaaaaaah!

Oh no, there’s a tick on me...GET IT OFF, GET IT OFF!!
Hey, there’s a deer in the backyard! Now we’re all gonna get Lyme disease.

I can’t believe how many ticks I found on the dog today. We just walked in the neighborhood.

Do you think we should spray the yard with Cedar Oil? They say it kills ticks.

Oh no, there’s a tick on me…GET IT OFF, GET IT OFF!!
"I just found a tick!"

"I just found a tick!"

"I just found a tick!"

"I just found a tick!"

TickSpotters
Assessing The Risk...
...Guiding Next Actions
**TickSpotters**

**#12684**

- **Do you know what kind of tick it was?** I don't know
- **Do you know what stage of tick it was?** I don't know
- **When did you find the tick?** Tuesday, May 12, 2015
- **State** New York
- **Canadian Provinces**
- **Zip code** 14094
- **Where was the tick(s) found?** On a person

**Email** kisano@live.com

---

**Recent Entries**

<table>
<thead>
<tr>
<th>Entry</th>
<th>Do you know what kind of tick it was?</th>
<th>Do you know what stage of tick it was?</th>
<th>When did you find the tick?</th>
<th>Please submit a picture of the tick. It's important!</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
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<td>I don't know</td>
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<td>May 12, 2015</td>
<td>image834.jpg</td>
<td><a href="mailto:jenst@jxune.com">jenst@jxune.com</a></td>
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<td>May 12, 2015</td>
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<td>May 12, 2015</td>
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<td><a href="mailto:micah.melissa@gmail.com">micah.melissa@gmail.com</a></td>
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<tr>
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<tr>
<td>12684</td>
<td>I don't know</td>
<td>I don't know</td>
<td>May 12, 2015</td>
<td>image834.jpg</td>
<td><a href="mailto:kisano@live.com">kisano@live.com</a></td>
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</tbody>
</table>
TickSpotters

Do you know what kind of tick it was? I don't know

Do you know what stage of tick it was? I don't know

When did you find the tick? Thursday, May 12, 2016

State Virginia

Canadian Provinces

Zip code 23114

Where was the tick(s) found? On a pet

Email

Please submit a picture of the tick. It's important!

11 May 2016
11:56:18 PM

100.7.43.20
IP Address

Recent Entries

<table>
<thead>
<tr>
<th>ID</th>
<th>Do you know what kind of tick it was?</th>
<th>Do you know what stage of tick it was?</th>
<th>When did you find the tick?</th>
<th>Please submit a picture of the tick.</th>
</tr>
</thead>
<tbody>
<tr>
<td>23495</td>
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<td>I don't know</td>
<td>May 12, 2016</td>
<td>image.png</td>
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<tr>
<td>23494</td>
<td>Lone Star tick (Amblyomma americanum)</td>
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<td>May 11, 2016</td>
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<td>23493</td>
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<td>May 12, 2016</td>
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<tr>
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<td>American Dog tick (Dermacentor variabilis)</td>
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<td>May 12, 2016</td>
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</tr>
</tbody>
</table>
More Ticks In More Places...
...and likely even more to come!

- *Ixodes pacificus* (Western-Blacklegged tick)
- *Ixodes scapularis* (Blacklegged ticks or Deer tick)
- *Amblyomma maculatum* (Gulf Coast tick)
- *Amblyomma americanum* (Lone Star ticks)
TickSpotters | America's Crowd-Sourced Tick Survey

Summer, 2014
ABOUT THIS MAP: This map is not meant to represent risks for a specific tick-borne disease, because disease transmission is influenced by multiple factors beyond mere tick presence. This map has been designed to answer the question “What ticks should I be concerned about at a regional scale?” Please consult a local public health authority or USDA Agricultural Extension Office to determine more specific information at the state, county, or municipal level. Background data for this map is from the US National Atlas.

National Center for Emerging and Zoonotic Infectious Diseases
Division of Vector-Borne Diseases

Blacklegged Tick
(Ixodes scapularis)
71%
TOP 5 STATES BY TOTAL SUBMISSIONS
I don't know 16%
Lone Star tick 16%
Am. dog tick 22%
Blacklegged (deer) tick 37%

You know it's time to take action

When you've got this much skin in the game.

Ann Arbor, MI TickSpotters submission, 05.28.2014
Female American dog tick biting a person

TickSpotters: Crowd-sourced Tick Surveillance for America
TickSpotters | America's Crowd-Sourced Tick Survey

Spring, 2014

I don’t know 16%
Lone Star tick 16%
Am. dog tick 22%
Blacklegged (deer) tick 37%

With The Support Of An Educational Grant From

TickSpotters: Crowd-sourced Tick Surveillance for America

St. Joseph, MI TickSpotters submission, 05.27.2014
Female American dog tick

KNOCK, KNOCK

TickSmart
Towns America

Powered by
Tick Spotters
America's Crowdsourced Tick Survey
Spring, 2014

I don't know 16%
Lone Star tick 16%
Blacklegged (deer) tick 37%
American dog tick 22%

SOUTHERN TICK MOVING NORTH

Holland, MI. TickSpotters submission, 05.17.2014
Male Lone Star tick

TickSpotters: Crowd-sourced Tick Surveillance for America
TickSpotters Submissions By Season

2014

- Loose: 8%
- People: 66%
- Pets: 25%
- Both: 1%
TickSpotters Submissions By Season

2015

TickSpotters Submissions By Season

<table>
<thead>
<tr>
<th>Season</th>
<th>Loose</th>
<th>People</th>
<th>Pets</th>
<th>Both</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>8%</td>
<td>67%</td>
<td>24%</td>
<td>1%</td>
</tr>
<tr>
<td>Winter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Identified Incorrectly

- **Amblyomma americanum** (Lone Star ticks)
  - Larva
  - Nymph
  - Adult Male
  - Adult Female
  - Recognized: 70%

- **Dermacentor variabilis** (American Dog ticks)
  - Larva
  - Nymph
  - Adult Male
  - Adult Female
  - Recognized: 64%

- **Ixodes scapularis** (Blacklegged ticks or Deer ticks)
  - Larva
  - Nymph
  - Adult Male
  - Adult Female
  - Recognized: 58%

Least Recognized: 70%

Most Recognized: 58%
IDENTIFIED INCORRECTLY

70% Least Recognized

64%

58% Most Recognized
WHAT'S THIS??
ONE OF THE LEAST RECOGNIZED TICS IN AMERICA!

ADULT TICKS ARE BACK!
SPRING MEANS ADULT LICE, TICKS ARE OUT & BITING...

Male Lone Star Ticks, rarely recognized but commonly encountered from Florida to Texas, are spreading and increasingly through America's heartland. They bite but do not engorge and they're active NOW! The tick's oval shaped body is covered in a distinctive pattern of white spots. To imagine what would happen if you removed this patch of skin, imagine a square or rectangle. The tick's body is covered with a white substance that resembles the front half of the tick's body. However, a single white spot is what is distinctive. The tick's mouthparts are visible, and it is feeding on a host.

In West Kentucky, March 14, 2016, a male blacklegged (deer) tick, attached to a 10-year-old boy for 3 days.

TickEncounter Resource Center
Facebook Page: TickEncounter Resource Center

Like Share Comment
4,775 people reacted

West Kentucky, March 14, 2016. A male blacklegged (deer) tick, attached to a 10-year-old boy for 3 days.

TickEncounter: Consideration of Tick Surveillance for America

7,299 people reached

David Paul Amirault: It is not just Lyme you have to worry about. Ticks are carriers of several other diseases. Flanders has been testing that some cases will have other diseases, and not show symptoms until it's too late.

Like Reply Message

RH: From Researcher: About 1 in 5 ticks had a bite on my neck. It was long. The head of a tick had been in my neck for 2 weeks. I had a rash on my neck. I did not know what it was. I shared it with my doctor. He knew it was a tick bite. He told me to watch for symptoms, and I had no more symptoms. 
Tick Literacy

TICKS CHANGE APPEARANCE

33% % of submissions engorged for >1.5 days

And that makes them “riskier”
Tick Literacy

4.9%
2014

4.3%
2015

Submissions that were not even a tick
TickSpotters

Assessing The Risk...
...Guiding Next Actions

CROWDSOURCED TICK SURVEILLANCE

• Adds Seasonal & Geographic Relevance
• Reveals People’s “Lived Experiences” With Ticks
• Useful Engagement Tool
• NEEDS TO BE SUPPORTED!!