

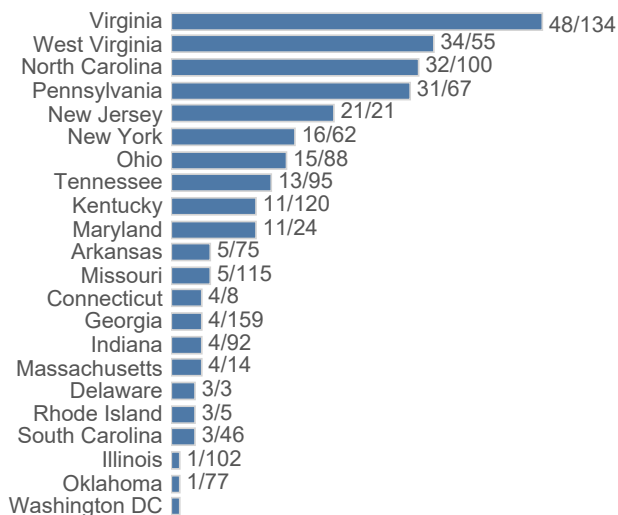
National *Haemaphysalis longicornis* (Asian longhorned tick) Situation Report

As of September 5, 2024

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)



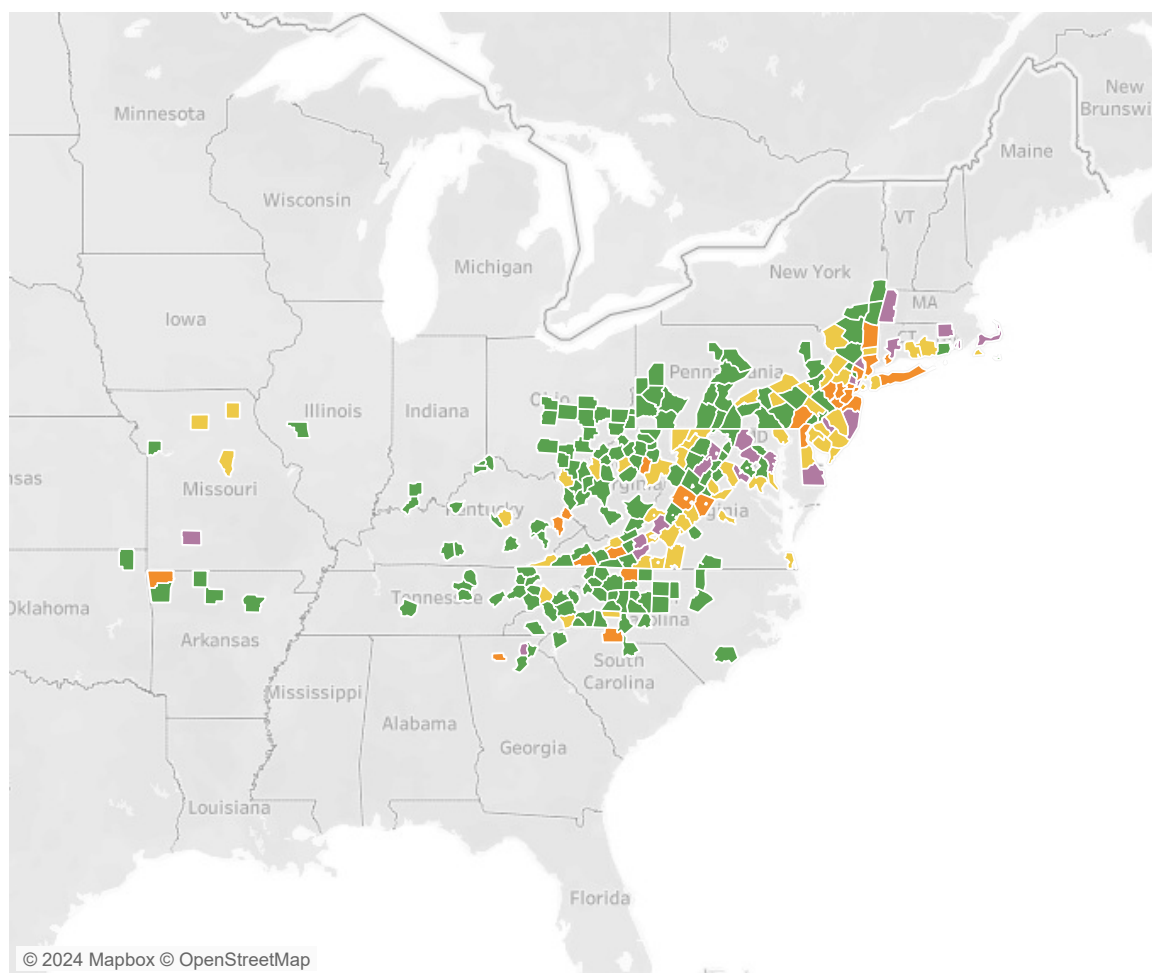
Type of identification*

■ Molecular and NVSL

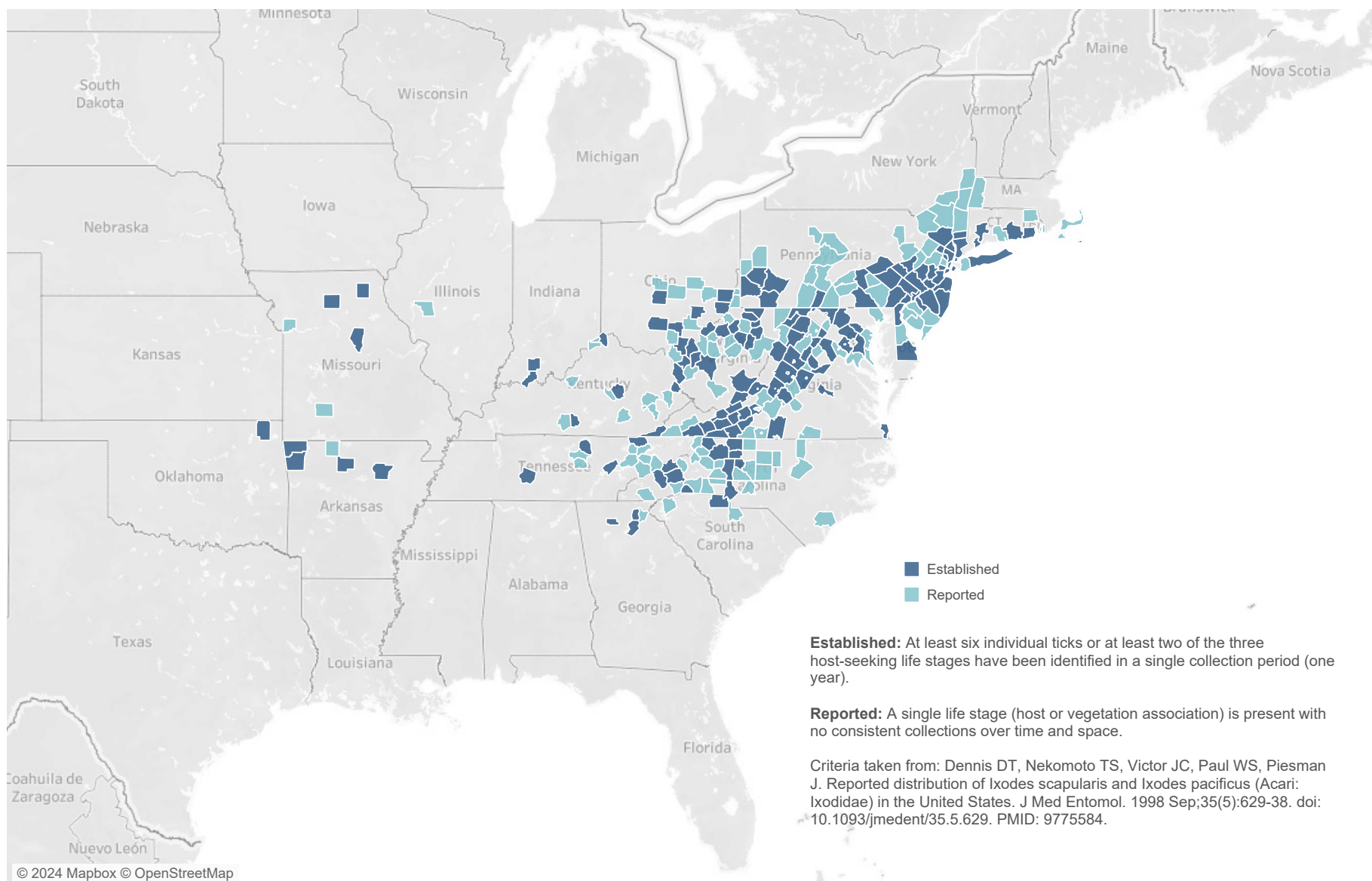
■ NVSL

■ Molecular

■ Taxonomic



Counties with established Asian longhorned tick populations



Asian longhorned tick positive hosts information

Number of positive hosts

Environment*	1,339
White-tailed Deer	172
Human*	107
Dog*	88
Raccoon	60
Cow*	53
Virginia opossum	32
Dog/Cat	24
Elk*	17
Striped Skunk	14
Unknown	11
Gray Squirrel	10
Groundhog	10
Horse*	10

Positives here are an accession case count rather than an actual host count.

Cat	9
Gray Catbird	9
Red-tailed hawk	9
Red Fox	8
Eastern cottontail rabbit	6
Coyote	5
Chicken	4
Gray Fox	4
Pere David's deer*	4
Great horned owl	3
Sheep	3

Bald eagle	2
Barred Owl	2
Black Bear	2
Eastern chipmunk	2
Goat	2
Northern Cardinal	2
Peromyscus leucopus	2
Peromyscus sp.	2

Bactrian deer*	1
Blue Jay	1
Brown Booby	1
Canada Goose	1
Carolina Wren	1
Fallow Deer*	1
House Wren	1
Pig	1
Przewalski's Horse?*	1
Red-shouldered Hawk	1
Sichuan Takin*	1
Song Sparrow	1

Type of identification (single) - Not aggregated

Molecular and NVSL

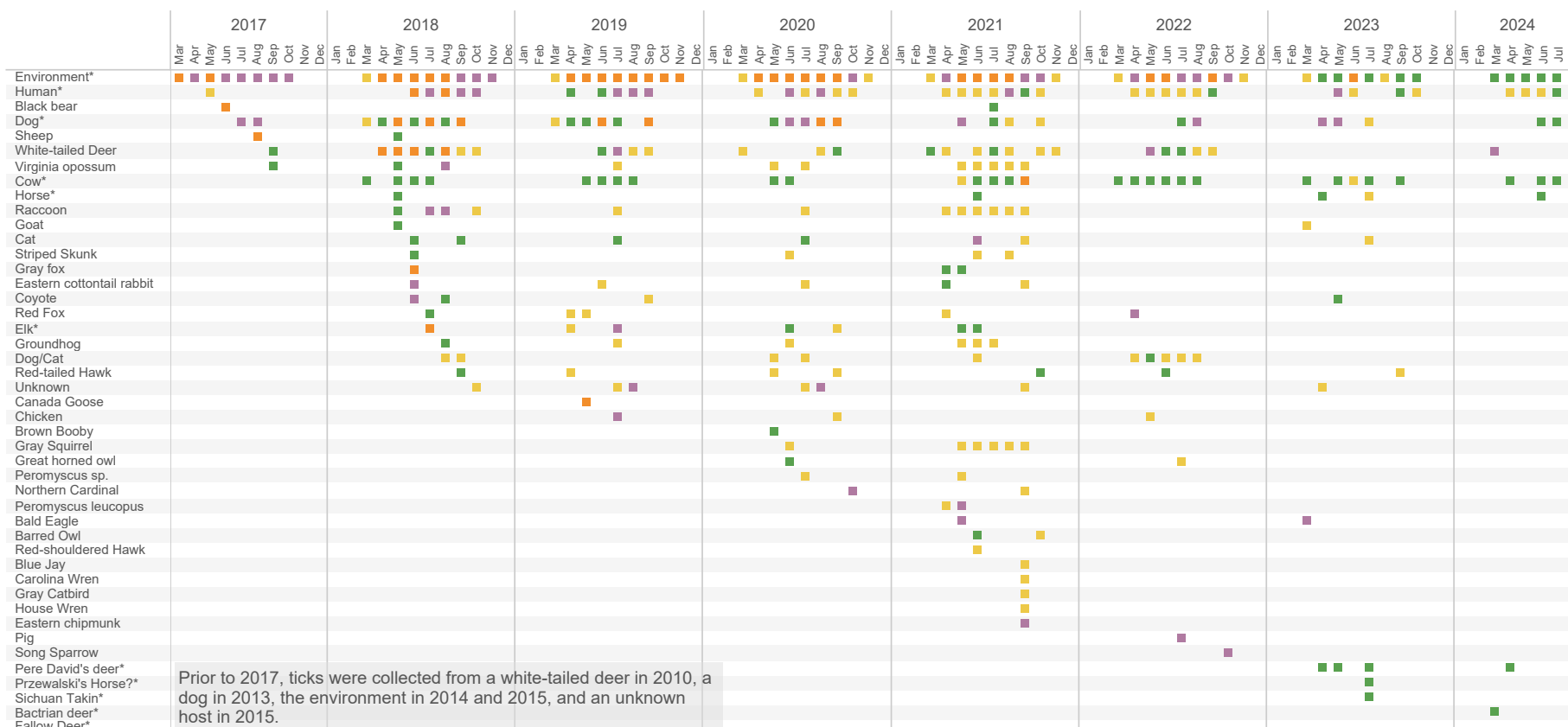
NVSL

Molecular

Taxonomic

Timeline of Asian longhorned tick host positives

* Confirmed since last situation report.



First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
8/31/2010	6/25/2018	West Virginia	Tyler	White-tailed Deer	NVSL
5/30/2013	6/4/2018	New Jersey	Union	Dog	Molecular and NVSL
6/3/2014	8/14/2018	New York	Richmond	Environment	Molecular and NVSL
6/1/2015		New Jersey	Somerset	Environment	Molecular
6/29/2015		New Jersey	Somerset	Unknown	Molecular
3/27/2017	6/7/2018	Virginia	Fairfax	Environment	NVSL
4/10/2017		Virginia	Warren	Environment	Taxonomic
5/1/2017	4/23/2018	New Jersey	Union	Environment	Molecular and NVSL
5/22/2017		Pennsylvania	Bucks	Human	Taxonomic
			Chester	Human	Taxonomic
6/2/2017		New York	Westchester	Environment	Taxonomic
	4/23/2020	Kentucky	Floyd	Black bear	Molecular and NVSL
6/7/2017		West Virginia	Marion	Environment	Taxonomic
6/19/2017		Virginia	Clarke	Environment	Taxonomic
7/31/2017		New Jersey	Bergen	Dog	Molecular
8/1/2017	11/9/2017	New Jersey	Hunterdon	Sheep	Molecular and NVSL
9/1/2017	6/28/2018	West Virginia	Taylor	White-tailed Deer	NVSL
9/15/2017	6/25/2018	North Carolina	Polk	Virginia opossum	NVSL
3/1/2018	5/14/2018	Virginia	Albemarle	Cow	NVSL
3/28/2018		North Carolina	Madison	Dog	Taxonomic
4/19/2018		West Virginia	Lincoln	Environment	Taxonomic
	4/24/2018	New Jersey	Hunterdon	White-tailed Deer	Molecular and NVSL
	6/27/2018	West Virginia	Lincoln	Dog	NVSL
5/1/2018	5/14/2018	New Jersey	Hunterdon	Virginia opossum	NVSL
	6/1/2018	New Jersey	Union	Horse	NVSL
	6/5/2018	Arkansas	Benton	Dog	Molecular
5/2/2018		West Virginia	Putnam	Environment	Taxonomic
	6/18/2018	West Virginia	Putnam	Dog	NVSL
5/3/2018	5/25/2018	New Jersey	Hunterdon	Raccoon	NVSL
5/6/2018	10/11/2018	New Jersey	Union	Raccoon	Molecular and NVSL
	11/15/2018	New Jersey	Union	Virginia Opossum	Molecular and NVSL
5/8/2018	7/27/2018	Virginia	Grayson	Environment	NVSL
5/10/2018	5/14/2018	New Jersey	Middlesex	Environment	Molecular and NVSL
	5/25/2018	Virginia	Warren	Horse	NVSL
	6/4/2018	New Jersey	Mercer	Environment	Molecular and NVSL
	6/8/2018	New Jersey	Hunterdon	Environment	NVSL
5/17/2018	5/23/2018	New Jersey	Middlesex	Sheep	NVSL
5/18/2018	5/21/2018	West Virginia	Hardy	Cow	NVSL
5/23/2018	9/4/2018	Pennsylvania	Bucks	Environment	NVSL
5/24/2018	6/4/2018	New Jersey	Middlesex	Goat	NVSL
5/25/2018	9/13/2018	Virginia	Rockbridge	White-tailed Deer	NVSL
5/26/2018	6/19/2018	West Virginia	Ritchie	Dog	NVSL
5/27/2018		New Jersey	Somerset	White-tailed Deer	Molecular
5/28/2018		West Virginia	Randolph	Environment	Taxonomic

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
6/1/2018	8/31/2018	Virginia	Russell	Dog	NVSL
6/2/2018	10/4/2018	Virginia	Albemarle	White-tailed Deer	Molecular and NVSL
6/3/2018		New York	Richmond	White-tailed Deer	Molecular
6/4/2018	6/28/2018	New York	Westchester	Human	Molecular and NVSL
6/6/2018	7/3/2018	Virginia	Albemarle	Environment	NVSL
6/7/2018	6/28/2018	Virginia	Smyth	Environment	NVSL
	7/6/2018	West Virginia	Marion	Cat	NVSL
6/10/2018		Virginia	Augusta	White-tailed Deer	Molecular and NVSL
	11/30/2018	Virginia	Albemarle	Striped Skunk	NVSL
6/13/2018	9/13/2018	Virginia	Pulaski	Gray Fox	NVSL
6/15/2018		Virginia	Shenandoah	Eastern cottontail rabbit	Molecular
	9/13/2018	Virginia	Staunton City	White-tailed Deer	NVSL
6/18/2018		New York	Bronx	Environment	Taxonomic
6/21/2018		Virginia	Frederick	Gray fox	Molecular
		West Virginia	Hardy	Environment	Taxonomic
	7/10/2018	West Virginia	Hardy	Cat	NVSL
	7/23/2018	West Virginia	Hardy	Dog	NVSL
	8/10/2020	Rhode Island	Washington	Environment	NVSL
	8/27/2018	New York	Rockland	Environment	Molecular
6/22/2018	8/24/2018	West Virginia	Upshur	Coyote	Molecular and NVSL
6/23/2018	7/23/2018	Virginia	Wythe	Environment	Molecular and NVSL
	7/27/2018	Virginia	Giles	Environment	NVSL
6/25/2018	6/29/2018	Virginia	Page	Cow	NVSL
	7/27/2018	Maryland	Washington	White-tailed Deer	NVSL
7/1/2018	8/28/2018	Connecticut	Fairfield	Environment	Molecular and NVSL
	8/31/2018	Virginia	Carroll	Dog	NVSL
			Scott	Dog	NVSL
7/2/2018	7/9/2018	West Virginia	Monroe	Environment	NVSL
7/4/2018		Virginia	Clarke	Red Fox	NVSL
7/5/2018	7/11/2018	Virginia	Pulaski	Cow	NVSL
	7/25/2018	New Jersey	Bergen	Human	Molecular
7/6/2018	7/23/2018	West Virginia	Ritchie	Environment	NVSL
7/7/2018	7/11/2018	West Virginia	Mason	Dog	NVSL
7/10/2018	7/26/2018	Pennsylvania	Centre	White-tailed Deer	NVSL
	8/7/2018	West Virginia	Cabell	Dog	NVSL
7/11/2018		Virginia	Greene	Red Fox	NVSL
7/12/2018	7/16/2018	New Jersey	Bergen	Environment	NVSL
7/15/2018		Kentucky	Martin	White-tailed Deer	Taxonomic
	3/8/2019	Kentucky	Martin	Elk	Molecular and NVSL
7/23/2018		Massachusetts	Barnstable	Dog	Molecular
7/27/2018		Virginia	Floyd	Human	Molecular
7/31/2018		New Jersey	Bergen	Red Fox	Taxonomic
	9/6/2018	New Jersey	Somerset	Dog	Molecular and NVSL
8/1/2018	3/25/2019	New York	Dutchess	Environment	Molecular and NVSL
	5/1/2019	West Virginia	Hampshire	White-tailed Deer	NVSL
	9/20/2018	North Carolina	Davidson	Human	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
8/3/2018	9/4/2018	New Jersey	Union	Groundhog	NVSL
8/4/2018		New Jersey	Union	Human	Molecular
8/5/2018		Virginia	Fauquier	Environment	Taxonomic
8/7/2018	8/17/2018	New Jersey	Monmouth	Environment	Molecular and NVSL
8/14/2018	9/14/2018	North Carolina	Rutherford	Dog	NVSL
8/15/2018		West Virginia	Hardy	Dog/Cat	Taxonomic
8/21/2018		Connecticut	Fairfield	Human	Molecular
8/24/2018	10/4/2018	New York	Suffolk	Environment	Molecular and NVSL
8/25/2018		Virginia	Rockingham	White-tailed Deer	NVSL
8/28/2018	5/1/2019	West Virginia	Wirt	White-tailed Deer	NVSL
8/30/2018		West Virginia	Lewis	Environment	Taxonomic
	4/17/2019	West Virginia	Lewis	White-tailed Deer	NVSL
8/31/2018	11/16/2018	West Virginia	Barbour	Dog	NVSL
9/6/2018	9/26/2018	New Jersey	Middlesex	Dog	NVSL
9/17/2018		South Carolina	York	Human	Molecular
		Virginia	Page	Red-tailed hawk	NVSL
9/20/2018		West Virginia	Hardy	White-tailed Deer	Taxonomic
	7/18/2019	Virginia	Fairfax	Human	Taxonomic
9/28/2018	10/26/2018	New Jersey	Somerset	Cat	NVSL
10/1/2018		New Jersey	Somerset	Raccoon	Taxonomic
10/3/2018		West Virginia	Grant	White-tailed Deer	Taxonomic
10/4/2018		Virginia	Botetourt	Environment	Molecular
10/8/2018	10/21/2021	New Jersey	Middlesex	Human	Molecular and NVSL
10/18/2018		Pennsylvania	Chester	Unknown	Taxonomic
	7/10/2020	Virginia	Pulaski	Environment	NVSL
3/28/2019	11/22/2019	North Carolina	Haywood	Dog	NVSL
4/5/2019	4/15/2019	Arkansas	Benton	Environment	NVSL
4/7/2019	5/3/2019	Maryland	Prince George's	Human	NVSL
4/8/2019		Pennsylvania	Chester	Red-tailed Hawk	Taxonomic
4/10/2019		Virginia	Roanoke	Dog	Taxonomic
4/15/2019		Virginia	Albermarle	Red Fox	Taxonomic
4/19/2019	9/7/2023	Pennsylvania	Franklin	Environment	NVSL
4/30/2019		Maryland	Anne Arundel	Environment	Molecular
5/1/2019		North Carolina	Haywood	Environment	Taxonomic
5/3/2019		Pennsylvania	Montgomery	Environment	Taxonomic
	12/6/2019	Pennsylvania	Chester	Environment	NVSL
			Philadelphia	Environment	NVSL
5/7/2019		Virginia	Fauquier	Red Fox	Taxonomic
5/12/2019		Pennsylvania	Perry	Dog	Taxonomic
5/13/2019	5/21/2019	Tennessee	Union	Dog	NVSL
5/17/2019		Virginia	Washington	Environment	Molecular and NVSL
5/21/2019	7/19/2019	New York	Unknown	Canada Goose	Molecular and NVSL
5/22/2019	5/24/2019	Tennessee	Roane	Cow	NVSL
6/2/2019	6/11/2019	West Virginia	Ritchie	cow	NVSL
6/3/2019	8/14/2019	Virginia	Carroll	Environment	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	Taxonomic
6/5/2019		Virginia	Pittsylvania	Environment	Taxonomic
6/6/2019		Virginia	Bedford	White-tailed Deer	Taxonomic
	7/9/2019	New Jersey	Somerset	Human	NVSL
6/7/2019		West Virginia	Upshur	Environment	Taxonomic
	6/11/2019	Tennessee	Knox	Cow	NVSL
				White-tailed Deer	NVSL
6/11/2019	7/19/2019	New Jersey	Hunterdon	Dog	NVSL
6/12/2019		Maryland	Allegany	Environment	Taxonomic
6/14/2019		New Jersey	Bergen	White-tailed Deer	Taxonomic
		Tennessee	Roane	Environment	Taxonomic
6/18/2019		Pennsylvania	Allegheny	Human	Taxonomic
6/19/2019		Virginia	Augusta	Eastern cottontail rabbit	Taxonomic
6/20/2019	7/3/2019	North Carolina	Surry	Cow	NVSL
6/21/2019		Virginia	Galax City	Environment	Taxonomic
6/22/2019	8/14/2019	Delaware	New Castle	Environment	Molecular and NVSL
6/24/2019		Virginia	Montgomery	Environment	Molecular
	9/16/2020	West Virginia	Harrison	Environment	NVSL
7/5/2019		Pennsylvania	Chester	Chicken	Molecular
7/6/2019		North Carolina	Surry	White-tailed Deer	Molecular
7/8/2019		New York	Suffolk	Human	Molecular
7/10/2019		New Jersey	Morris	White-tailed Deer	Taxonomic
		Virginia	Albemarle	Virginia opossum	Taxonomic
		West Virginia	Hampshire	Environment	Taxonomic
7/11/2019		Virginia	Albemarle	Raccoon	Taxonomic
7/12/2019	7/25/2019	North Carolina	Alexander	Dog	NVSL
7/13/2019		Virginia	Rockbridge	Environment	Taxonomic
7/15/2019		Pennsylvania	Delaware	Human	Taxonomic
7/19/2019		New Jersey	Bergen	Unknown	Taxonomic
		Pennsylvania	Montgomery	Human	Taxonomic
		Virginia	Albemarle	Groundhog	Taxonomic
	7/22/2019	Tennessee	Jefferson	Dog	NVSL
7/25/2019		West Virginia	Monongalia	Environment	Taxonomic
	8/13/2019	West Virginia	Monongalia	Cat	NVSL
7/26/2019		Delaware	Kent	Environment	Taxonomic
	12/31/2019	North Carolina	Wilkes	Dog	NVSL
7/29/2019	9/10/2019	Tennessee	Claiborne	Dog	NVSL
8/2/2019		New Jersey	Camden	Human	Molecular
8/5/2019		Virginia	Prince William	Environment	Molecular
8/19/2019		New Jersey	Middlesex	Unknown	Molecular
8/27/2019		West Virginia	Mineral	White-tailed Deer	Taxonomic
8/31/2019	9/10/2019	Tennessee	Sevier	Cow	NVSL
9/2/2019		Maryland	Montgomery	Human	Molecular
9/8/2019		Virginia	Albemarle	Coyote	Taxonomic
				Human	Taxonomic
9/9/2019		New Jersey	Hudson	Environment	Taxonomic
	12/6/2019	Pennsylvania	Delaware	Environment	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
9/13/2019		Virginia	Goochland	Environment	Taxonomic
9/16/2019		Connecticut	Fairfield	Dog	Molecular
		New Jersey	Hudson	Dog	Molecular
		New York	Westchester	Dog	Molecular
9/17/2019	9/27/2019	Tennessee	Putnam	Dog	NVSL
9/18/2019		West Virginia	Doddridge	Environment	Taxonomic
	10/21/2019	West Virginia	Doddridge	Dog	NVSL
9/21/2019		New Jersey	Warren	Environment	Taxonomic
9/27/2019		Connecticut	New London	Environment	Taxonomic
	12/6/2019	Pennsylvania	Northampton	Environment	NVSL
10/1/2019		New Jersey	Sussex	Environment	Taxonomic
10/28/2019	11/12/2019	New Jersey	Passaic	Environment	NVSL
3/9/2020		North Carolina	Surry	Environment	Taxonomic
3/11/2020		Maryland	Howard	White-tailed Deer	Taxonomic
4/5/2020	4/14/2020	West Virginia	Kanawha	Environment	NVSL
4/22/2020		Pennsylvania	Lehigh	Environment	Taxonomic
4/28/2020	10/29/2020	Pennsylvania	Dauphin	Environment	NVSL
5/4/2020		New Jersey	Bergen	Brown Booby	NVSL
5/6/2020		West Virginia	Doddridge	Dog/Cat	Taxonomic
5/15/2020	7/10/2020	Tennessee	White	Dog	NVSL
5/16/2020	3/19/2021	North Carolina	Madison	Environment	NVSL
5/17/2020		Virginia	Augusta	Red-tailed Hawk	Taxonomic
	3/19/2021	North Carolina	Mecklenburg	Environment	NVSL
	7/10/2020	New York	Orange	Environment	NVSL
5/20/2020		Virginia	Rockingham	Virginia opossum	Taxonomic
5/25/2020	5/29/2021	Kentucky	Metcalfe	Cow	NVSL
5/26/2020		Virginia	Floyd	Environment	Taxonomic
5/27/2020		New Jersey	Salem	Environment	Taxonomic
	6/19/2020	Maryland	Howard	Environment	NVSL
	7/14/2020	West Virginia	Greenbrier	Environment	NVSL
5/28/2020	7/29/2020	Ohio	Gallia	Dog	NVSL
	10/29/2020	Pennsylvania	Lancaster	Environment	NVSL
5/31/2020	3/19/2021	North Carolina	Buncombe	Environment	NVSL
6/1/2020		New York	Richmond	Gray Squirrel	Taxonomic
				Groundhog	Taxonomic
				Striped Skunk	Taxonomic
		Tennessee	Claiborne	Environment	Taxonomic
		Virginia	Page	Great horned owl	NVSL
	8/12/2020	Virginia	Clarke	Great horned owl	NVSL
6/3/2020	7/13/2020	West Virginia	Raleigh	Environment	NVSL
6/4/2020		Maryland	Allegany	Cow	Taxonomic
6/9/2020		Connecticut	New Haven	Environment	Taxonomic
6/10/2020	7/10/2020	North Carolina	Rowan	Elk	NVSL
6/12/2020		New York	Rockland	Dog	Taxonomic
6/14/2020		New York	Rockland	Human	Molecular
6/18/2020		Pennsylvania	Lebanon	Environment	Taxonomic
6/25/2020	5/19/2021	New York	Ulster	Environment	NVSL
6/27/2020		Delaware	New Castle	Dog	Molecular
6/29/2020		West Virginia	Barbour	Environment	Taxonomic
6/30/2020	7/10/2020	North Carolina	Macon	Cow	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
7/8/2020		Virginia	Albemarle	Eastern cottontail rabbit	Taxonomic
7/13/2020		Virginia	Albemarle	Peromyscus sp.	Taxonomic
7/15/2020		Kentucky	Madison	Human	Taxonomic
7/18/2020	7/30/2020	Tennessee	Grainger	Cat	NVSL
7/20/2020		New Jersey	Essex	Dog	Molecular
7/23/2020		West Virginia	Greenbrier	Unknown	Taxonomic
7/31/2020		West Virginia	Jackson	Environment	Taxonomic
				Human	Taxonomic
8/3/2020		Pennsylvania	Delaware	Dog	Taxonomic
8/7/2020	10/29/2020	Pennsylvania	Allegheny	Environment	NVSL
8/12/2020	9/25/2020	South Carolina	Pickens	Dog	NVSL
8/17/2020		New Jersey	Essex	Human	Molecular
8/24/2020	12/15/2020	South Carolina	Lancaster	Dog	NVSL
8/26/2020		West Virginia	Upshur	White-tailed Deer	Taxonomic
8/30/2020	3/5/2021	West Virginia	Marshall	Environment	NVSL
9/2/2020		West Virginia	Monroe	White-tailed Deer	Taxonomic
	12/4/2020	North Carolina	Caldwell	White-tailed Deer	NVSL
9/9/2020		Delaware	Sussex	Red-tailed hawk	Taxonomic
9/12/2020		West Virginia	Pendleton	Environment	Taxonomic
	10/5/2020	West Virginia	Pendleton	Dog	NVSL
9/17/2020	3/5/2021	West Virginia	Ohio	Environment	NVSL
9/23/2020		Virginia	Rockingham	Red-tailed hawk	Taxonomic
10/2/2020		Virginia	Albermarle	Northern Cardinal	Molecular
10/27/2020		Virginia	Orange	Environment	Taxonomic
3/5/2021	6/29/2021	North Carolina	Iredell	White-tailed Deer	NVSL
3/22/2021		Tennessee	Cocke	Environment	Taxonomic
4/1/2021		Maryland	Washington	Environment	Taxonomic
4/2/2021		Virginia	Montgomery	Eastern cottontail rabbit	Taxonomic
4/6/2021		Maryland	Howard	Peromyscus leucopus	Taxonomic
4/12/2021	8/12/2021	Virginia	Loudon	Eastern cottontail rabbit	NVSL
4/16/2021	11/17/2022	Ohio	Guernsey	Gray Fox	NVSL
4/17/2021		Virginia	Augusta	Red Fox	Taxonomic
4/22/2021		Maryland	Charles	Environment	Taxonomic
4/28/2021	11/27/2023	Pennsylvania	Fayette	Environment	NVSL
4/29/2021		Virginia	Floyd	Raccoon	Taxonomic
5/6/2021		Maryland	Montgomery	Dog	Molecular
5/10/2021	8/31/2021	North Carolina	Randolph	Gray Fox	NVSL
5/12/2021		Virginia	Augusta	Environment	Taxonomic
5/13/2021		New Jersey	Middlesex	Gray Squirrel	Taxonomic
			Ocean	Bald eagle	Molecular
5/14/2021	6/11/2021	West Virginia	Wood	Environment	NVSL
5/18/2021		Maryland	Calvert	Cow	Taxonomic
5/20/2021		Connecticut	New Haven	Human	Molecular
		New Jersey	Middlesex	Raccoon	Taxonomic
5/21/2021	6/10/2021	West Virginia	Wayne	Environment	NVSL
5/24/2021	3/14/2022	Kentucky	Breathitt	Elk	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
5/26/2021	3/14/2022	New Jersey	Middlesex	Peromyscus leucopus Peromyscus sp.	Molecular Taxonomic
		Virginia	Patrick	Environment	Taxonomic
		Kentucky	Perry	Elk	NVSL
		North Carolina	Ashe	Environment	NVSL
5/27/2021		New Jersey	Middlesex	Groundhog Virginia opossum	Taxonomic Taxonomic
5/28/2021		Missouri	Greene	Environment	Molecular
6/1/2021	6/11/2021 8/12/2021	Virginia	Henry	Environment	Taxonomic
		North Carolina	Iredell	Cow	NVSL
		Virginia	Warren	Barred Owl	NVSL
6/2/2021		New Jersey	Passaic	Virginia opossum	Taxonomic
6/6/2021	8/5/2021	New York	Rensselaer	Environment	NVSL
		New Jersey	Bergen	Raccoon	Taxonomic
6/8/2021		Virginia	Loudon	Horse	Taxonomic
6/10/2021	8/20/2021	Ohio	Jackson	Cow	NVSL
6/12/2021	8/9/2021	Missouri	Clay	Horse	NVSL
6/13/2021		New York	Putnam	Environment	Taxonomic
6/14/2021		Pennsylvania	Montgomery	Red-shouldered Hawk	Taxonomic
6/15/2021		Delaware	New Castle	Cat	Molecular
		Virginia	Alleghany	Environment	Taxonomic
		New Jersey	Middlesex	Striped Skunk	Taxonomic
6/16/2021		New York	Kings	Environment	Taxonomic
6/17/2021		Tennessee	Claiborne	Human	Taxonomic
6/21/2021	7/9/2021	North Carolina	Iredell	Elk	NVSL
6/24/2021	8/26/2021	Pennsylvania	Berks	Environment	NVSL
6/29/2021		Maryland	Calvert	Environment	Taxonomic
			Prince George's	Environment	Taxonomic
		Virginia	Nelson	Environment	Taxonomic
7/1/2021	7/16/2021	North Carolina	Ashe	Cow	NVSL
	7/22/2021	North Carolina	Wilkes	Cow	NVSL
7/4/2021	8/20/2021	North Carolina	Avery	White-tailed Deer	NVSL
7/6/2021	8/26/2021	New Jersey	Union	White-tailed Deer	Taxonomic
		Pennsylvania	Schuylkill	Environment	Taxonomic
		Pennsylvania	Cumberland	Environment	NVSL
7/9/2021	7/28/2021	Kentucky	Boone	Cow	NVSL
7/12/2021	8/20/2021	North Carolina	Pender	Dog	NVSL
7/20/2021	8/20/2021	North Carolina	Watauga	White-tailed Deer	NVSL
7/21/2021	2/1/2022	Virginia	Appomattox	Black Bear	NVSL
7/23/2021	8/20/2021	Ohio	Monroe	Environment	NVSL
7/26/2021	8/26/2021	West Virginia	Jefferson	Environment	Taxonomic
		West Virginia	Jefferson	Dog	NVSL
7/29/2021	8/6/2021	North Carolina	Davie	Environment	NVSL
8/1/2021		Delaware	New Castle	Human	Molecular
8/5/2021	8/20/2021	Tennessee	Jefferson	Environment	Taxonomic
		Ohio	Monroe	Cow	NVSL
8/10/2021		Virginia	Warren	Raccoon	Taxonomic
8/18/2021		West Virginia	Gilmer	Dog	Taxonomic
8/27/2021		West Virginia	Cabell	Environment	Taxonomic
8/31/2021	9/13/2021	North Carolina	Catawba	Environment	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
9/1/2021		New York	Westchester	Blue Jay Carolina Wren Gray Catbird House Wren Northern Cardinal	Taxonomic Taxonomic Taxonomic Taxonomic Taxonomic
9/7/2021		New Jersey	Middlesex	Eastern cottontail rabbit	Taxonomic
9/9/2021	9/20/2021	Georgia	Pickens	Unknown	Taxonomic
9/13/2021		New Jersey	Middlesex	Cow	Molecular and NVSL
9/22/2021		Georgia	Pickens	Eastern chipmunk	Molecular
9/23/2021		Georgia	Pickens	Virginia opossum	Taxonomic
10/2/2021		Georgia	Pickens	Cat	Taxonomic
10/11/2021		Virginia	Fairfax	White-tailed Deer	Taxonomic
		Virginia	Roanoke	Barred Owl	Taxonomic
	2/1/2022	Virginia	Rappahannock	Red-tailed Hawk	NVSL
3/25/2022	5/23/2022	North Carolina	Cleveland	Cow	NVSL
4/6/2022		Delaware	Sussex	Red Fox	Molecular
4/22/2022	4/29/2022	Georgia	Hall	Cow	NVSL
4/26/2022		West Virginia	Kanawha	Dog/Cat	Taxonomic
5/1/2022	7/26/2023	Ohio	Ross	Dog/Cat	NVSL
5/5/2022	5/12/2022	Arkansas	Washington	Cow	NVSL
5/13/2022	11/28/2023	Pennsylvania	Washington	Environment	NVSL
5/15/2022		Virginia	Montgomery	Chicken	Taxonomic
5/19/2022		West Virginia	Harrison	Dog/Cat	Taxonomic
5/20/2022		Delaware	New Castle	White-tailed Deer	Molecular
			Sussex	Environment	Molecular
5/25/2022	11/23/2022	New Jersey	Burlington	Environment	Taxonomic
5/26/2022		West Virginia	Braxton	Environment	NVSL
6/1/2022		New Jersey	Ocean	Environment	Taxonomic
6/2/2022		Georgia	White	Environment	Molecular
6/2/2022		Ohio	Gallia	Human	Taxonomic
6/3/2022	6/22/2022	North Carolina	Madison	Cow	NVSL
6/6/2022		Maryland	Frederick	Cow	Taxonomic
	7/1/2022	North Carolina	Alexander	Red-tailed Hawk	NVSL
6/7/2022	11/23/2022	West Virginia	Roane	Environment	NVSL
6/8/2022	6/17/2022	Georgia	Habersham	Cow	NVSL
		New Jersey	Camden	Environment	Taxonomic
6/10/2022		West Virginia	Marion	Dog/Cat	Taxonomic
	6/22/2022	South Carolina	York	Environment	NVSL
6/11/2022	11/28/2023	Pennsylvania	Westmoreland	Environment	NVSL
6/12/2022	8/19/2022	North Carolina	Ashe	White-tailed Deer	NVSL
6/18/2022	7/15/2022	West Virginia	Wayne	Cow	NVSL
6/21/2022		Virginia	Bland	Environment	Taxonomic
6/23/2022		West Virginia	Grant	Dog/Cat	Taxonomic
6/24/2022		New Jersey	Atlantic	Environment	Taxonomic
	11/28/2023	Pennsylvania	Butler	Environment	NVSL
6/26/2022		Maryland	Harford	Human	Taxonomic
6/28/2022		Virginia	Bristol	Environment	Taxonomic
7/1/2022	7/29/2022	North Carolina	Yadkin	Dog	NVSL
7/3/2022		Delaware	New Castle	Great horned owl	Taxonomic

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
7/5/2022	7/26/2022	North Carolina	Stanly	White-tailed Deer	NVSL
		New Jersey	Gloucester	Environment	Taxonomic
7/6/2022		New York	Westchester	Pig	Molecular
	9/2/2022	Ohio	Belmont	Cow	NVSL
		West Virginia	Hampshire	Dog/Cat	Taxonomic
7/7/2022	8/23/2022	North Carolina	Buncombe	Cow	NVSL
7/19/2022		New York	Sullivan	Environment	Taxonomic
7/21/2022	9/2/2022	Ohio	Morgan	Cow	NVSL
7/25/2022	8/25/2022	North Carolina	Yancey	White-tailed Deer	NVSL
7/28/2022	10/21/2022	Kentucky	Garrard	Dog	NVSL
8/15/2022		Missouri	Linn	Environment	Taxonomic
8/16/2022		West Virginia	Pendleton	White-tailed Deer	Taxonomic
8/18/2022		New Jersey	Cape May	Environment	Taxonomic
8/21/2022	1/18/2023	Kentucky	Barren	Cow	NVSL
8/24/2022		Maryland	Frederick	Environment	Taxonomic
8/26/2022		Massachusetts	Berkshire	Dog	Molecular
8/29/2022		West Virginia	Tyler	Dog/Cat	Taxonomic
9/1/2022		West Virginia	Mason	White-tailed Deer	Taxonomic
		Ohio	Franklin	Environment	Taxonomic
9/3/2022	10/18/2022	Ohio	Franklin	Human	NVSL
9/7/2022		West Virginia	Doddridge	White-tailed Deer	Taxonomic
9/12/2022		Georgia	Hall	White-tailed Deer	Taxonomic
9/18/2022		Ohio	Belmont	Environment	Taxonomic
9/26/2022		Ohio	Jackson	Environment	Taxonomic
9/28/2022	10/5/2023	Ohio	Vinton	Environment	NVSL
9/29/2022		Ohio	Lawrence	Environment	Taxonomic
10/15/2022		New Jersey	Somerset	Song Sparrow	Molecular
3/12/2023	4/3/2023	Pennsylvania	Chester	Bald Eagle	Molecular
		Kentucky	Laurel	Cow	NVSL
3/21/2023		Maryland	Montgomery	Environment	Taxonomic
3/27/2023		North Carolina	Lincoln	Environment	Taxonomic
3/30/2023		North Carolina	Madison	Goat	Taxonomic
4/13/2023	5/1/2023	Indiana	Switzerland	Environment	NVSL
4/15/2023	8/23/2024	Ohio	Muskingum	Pere David's deer	NVSL
4/19/2023		Ohio	Gallia	Unknown	Taxonomic
4/21/2023	6/21/2024	Pennsylvania	Clinton	Horse	NVSL
4/27/2023		Missouri	Boone	Environment	Taxonomic
5/2/2023	8/18/2023	Arkansas	Independence	Cow	NVSL
5/8/2023	5/8/2023	North Carolina	Yadkin	Cow	Taxonomic
		North Carolina	Henderson	Environment	Taxonomic
		Ohio	Gallia	Environment	Taxonomic
5/10/2023	4/22/2024	North Carolina	Guilford	Coyote	NVSL
	7/26/2023	Ohio	Gallia	Cow	NVSL
5/12/2023	9/7/2023	Pennsylvania	Lackawanna	Environment	NVSL
5/13/2023	9/7/2023	Pennsylvania	Beaver	Environment	NVSL
5/15/2023		Maryland	Frederick	Human	Molecular
5/16/2023		New York	Nassau	Human	Taxonomic
5/17/2023	10/20/2023	Indiana	Dubois	Environment	NVSL
5/22/2023	6/6/2023	Massachusetts	Nantucket	Environment	NVSL
5/23/2023	9/7/2023	Pennsylvania	Bedford	Environment	NVSL
5/30/2023		New Jersey	Cumberland	Environment	Taxonomic
6/3/2023		Virginia	Madison	Environment	Taxonomic

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
6/5/2023	8/16/2023	Ohio	Delaware	Environment	NVSL
6/6/2023	6/21/2023	New York	Greene	Environment	NVSL
6/7/2023		Massachusetts	Dukes	Environment	Taxonomic
6/17/2023		North Carolina	Polk	Environment	Taxonomic
6/18/2023			Rutherford	Environment	Taxonomic
6/21/2023	9/7/2023	New York	Ulster	Human	Taxonomic
6/24/2023		Pennsylvania	York	Environment	NVSL
6/25/2023		New Jersey	Essex	Environment	Taxonomic
6/25/2023	7/26/2023	Rhode Island	Providence	Environment	Molecular
6/27/2023		Virginia	Mecklenburg	Environment	NVSL
6/28/2023		Virginia	Lynchburg	Environment	Taxonomic
7/1/2023		Rhode Island	Newport	Environment	Molecular
7/1/2023	8/23/2024	Ohio	Muskingum	Przewalski's Horse?	NVSL
7/3/2023		North Carolina	Surry	Cat	Taxonomic
7/5/2023	9/8/2023	Pennsylvania	Blair	Environment	NVSL
7/12/2023		New Jersey	Morris	Environment	Taxonomic
7/15/2023		North Carolina	Stanly	Environment	Taxonomic
7/17/2023		North Carolina	Iredell	Horse	Taxonomic
7/21/2023		Connecticut	Middlesex	Environment	Taxonomic
7/25/2023	8/7/2023	New York	Columbia	Environment	NVSL
7/26/2023		North Carolina	Yancey	Dog	Taxonomic
7/27/2023	8/3/2023	Indiana	Ohio	Environment	NVSL
7/28/2023	8/23/2024	Ohio	Muskingum	Sichuan Takin	NVSL
	9/7/2023	Pennsylvania	Monroe	Environment	NVSL
8/10/2023		Missouri	Knox	Environment	Taxonomic
9/6/2023	10/5/2023	Ohio	Athens	Human	NVSL
9/20/2023	10/10/2023	North Carolina	Wake	Cow	NVSL
9/21/2023	2/23/2023	Tennessee	Mauzy	Environment	NVSL
3/14/2024	8/20/2024	Pennsylvania	Cameron	Environment	NVSL
3/19/2024	8/23/2024	Ohio	Muskingum	Bactrian deer	NVSL
3/21/2024		Washington DC	Washington DC	White-tailed Deer	Molecular
4/11/2024		North Carolina	Davidson	Cow	Taxonomic
4/12/2024	4/25/2024	Illinois	Morgan	Environment	NVSL
4/13/2024	4/23/2024	North Carolina	Stokes	Cow	NVSL
4/22/2024		North Carolina	Haywood	Cow	Taxonomic
4/27/2024		North Carolina	Iredell	Human	Taxonomic
		Virginia	Virginia Beach	Environment	Taxonomic
4/30/2024	5/2/2024	Indiana	Spencer	Cow	NVSL
5/1/2024		Indiana	Spencer	Environment	Taxonomic
5/13/2024	8/23/2024	Ohio	Licking	Environment	NVSL
5/20/2024		Virginia	Amherst	Environment	Taxonomic
5/24/2024	8/23/2024	Ohio	Coshocton	Environment	NVSL
5/30/2024	6/20/2024	New York	Schnectaday	Environment	NVSL

First date of Asian longhorned tick detections by state, county, and host

Earliest collected	Earliest confirmed	State	County	Host	
6/11/2024	8/20/2024	Tennessee	Johnson	Dog	NVSL
				Horse	NVSL
6/14/2024		Maryland	Garrett	Environment	Taxonomic
6/17/2024	8/20/2024	Tennessee	Overton	Environment	NVSL
6/20/2024	6/27/2024	Arkansas	Boone	Environment	NVSL
6/24/2024	8/20/2024	North Carolina	Alamance	Cow	NVSL
7/3/2024		North Carolina	Mecklenburg	Human	Taxonomic
	8/13/2024	North Carolina	Granville	Dog	NVSL
7/8/2024		Virginia	Lee	Cow	Taxonomic
7/9/2024	8/20/2024	Pennsylvania	Huntingdon	Environment	NVSL
7/16/2024	7/30/2024	Arkansas	Searcy	Environment	NVSL
7/28/2024	8/29/2024	Kentucky	Bullitt	Human	NVSL
7/31/2024	8/2/2024	Oklahoma	Craig	Cow	NVSL
8/5/2024	8/20/2024	Pennsylvania	Fulton	Environment	NVSL
8/26/2024	9/4/2024	Pennsylvania	Fulton	Elk	NVSL
				Fallow Deer	NVSL

Summary of wildlife sampling for Asian longhorned tick

Animal groups	Host	Number of animals				Number confirmed			
		SCWDS	Pandey et al. 2022	Tufts et al., 2019 & 2020	USDA, Wildlife Services	SCWDS	Pandey et al. 2022	Tufts et al., 2019 & 2020	USDA, Wildlife Services
Bird	American Crow	2							
	American Goldfinch	1	6						
	American Redstart		47						
	American Robin	9	38	11					
	American Yellow Warbler			1					
	Bald Eagle	8							
	Baltimore Oriole	4	12						
	Barn Owl	1							
	Barred Owl	3							
	Black Vulture	1							
	Black-and-white Warbler		9						
	Black-capped Chickadee		20						
	Black-throated Blue Warbler		3						
	Black-throated Green Warbler		1						
	Blackpoll Warbler		3						
	Blue Jay	4	15				1		
	Blue-headed Vireo		1						
	Blue-winged Warbler		2						
	Broad-winged Hawk	1							
	Brown Booby	1							
	Brown Thrasher	6	2						
	Brown-headed Cowbird	3							
	Canada Goose	3							
	Canada Warbler		5						
	Cape May Warbler		1						
	Carolina Wren	15	37				1		
	Cedar Waxwing		4						
	Chestnut-sided Warbler		4						
	Chipping Sparrow	1	1						
	Common Grackle	3							
	Common Yellowthroat	3	107	1					
	Connecticut Warbler		1						
	Cooper's Hawk	4							
	Downy Woodpecker		14						
	Eastern Kingbird		2						
	Eastern Phoebe	3	9						
	Eastern Screech Owl	1							
	Eastern Towhee	2							
	Eastern Wood-pewee		1						
	Field Sparrow		1						
	Forster's Tern	2							
	Fox Sparrow		3						
	Golden-crowned Kinglet		1						
	Grackle	2							
	Gray Catbird	17	365	20			9		
	Gray-cheeked Thrush		2						
	Great Blue Heron	2							
	Great-horned Owl	5							
	Hairy Woodpecker		4						
	Hermit Thrush		18						
	Hooded Warbler	1	6						
	House Sparrow	1							
	House Wren	3	65	2			1		

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Summary of wildlife sampling for Asian longhorned tick

Animal groups	Host	Number of animals				Number confirmed			
		SCWDS	Pandey et al. 2022	Tufts et al., 2019 & 2020	USDA, Wildlife Services	SCWDS	Pandey et al. 2022	Tufts et al., 2019 & 2020	USDA, Wildlife Services
Bird	Indigo Bunting		3	1					
	Kentucky Warbler	3							
	Lincoln's Sparrow	1	2						
	Magnolia Warbler	1	14						
	Mourning Dove	1							
	Mourning Warbler		1						
	Myrtle Warbler		16						
	Northern Bobwhite	1							
	Northern Cardinal	31	50	3	1	1			
	Northern Waterthrush		5						
	Ovenbird	3	31						
	Purple Finch	1	5						
	Red-bellied Woodpecker		3						
	Red-eyed Vireo	3	1						
	Red-shouldered Hawk	3							
	Red-tailed Hawk	11			2				
	Red-winged Blackbird		4						
	Rose-breasted Grosbeak		2						
	Ruby-crowned Kinglet		32						
	Ruffed Grouse	1							
	Scarlet Tanager		1						
	Screech Owl	1							
	Sharp-shinned Hawk		1						
	Slate-colored Junco		4						
	Song Sparrow		52						
	Sparrow, Unknown Spp.	3							
	Summer Tanager	2							
	Swainson's Thrush	7	10						
	Swamp Sparrow		15						
	Trail's Flycatcher		3						
	Tufted Titmouse	2	8						
	Veery	2	10						
	Warbler	3							
	White-breasted Nuthatch		3						
	White-crowned Sparrow	1							
	White-eyed Vireo	4							
	White-throated Sparrow	3	66						
	Wild Turkey	95							
	Winter Wren		3						
	Wood Thrush	5	3						
	Worm-eating Warbler	3	1						
	Yellow Palm Warbler		1						
	Yellow Warbler	4	1						
	Yellow-bellied Flycatcher		1						
	Yellow-breasted Chat	1	1						
	Yellow-shafted Flicker		5						
	Yellow-throated Vireo	1							
Grand Total		309	1,168	39	3	1			

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Summary of wildlife sampling for Asian longhorned tick

Animal groups	Host	Number of animals				Number confirmed			
		Ferreira 2023	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services	Ferreira 2023	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services
Mammal	Axis Deer		10						
	Black Bear		392						
	Blackbuck		2						
	Bobcat		16						
	Brown Rat			1					
	Cotton Rat		7						
	Cow		1						
	Coyote		23			6			
	Desert Big Horned Sheep		1						
	Domestic Cat		2	5				4	
	Domestic Dog		17			4			
	Eastern Chipmunk	37	3	2		1			
	Eastern Cottontail	1	98		1	1			1
	Eastern Gray Squirrel		10						
	Eastern Woodrat		6						
	Elk		117				5		
	Feral Hog		9						
	Fox		4						
	Gray Fox		11			3			
	Gray Squirrel	37	1	12		10		1	
	Groundhog	9	26	2	4	7	1	2	4
	Hispid Cotton Rat		19						
	Hog		9						
	House Mouse	16	4						
	Human		54				3		
	Human (Attached)		1						
	Human (Unattached)		3						
	Meadow Vole	29	2						
	Mexican Free-tailed Bat		1						
	Mule Deer		80						
	Nine-banded Armadillo		1						
	North American Porcupine		1						
	Northern Short-tailed Shrew			14					
	Peromyscus sp.	78	280			1			
	Raccoon	37	234	39	5	34	37	36	5
	Red Deer		4						
	Red Fox		41				3		
	Short-tailed Shrew	5							
	Skunk		1						
	Southern Red-backed Vole		1						
	Spotted Skunk		21						
	Striped Skunk	13	19	2	1	12		2	1
	Virginia Opossum	11	245	21	3	10	11	20	3
	White-footed Mouse		1	87					
	White-tailed Deer		1,462	16	2		49	16	2
	Woodchuck		36				2		
	Woodland Jumping Mouse		2						
Grand Total		273	3,278	201	16	76	125	81	16

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Tufts, D. M., Goodman, L. B., Benedict, M. C., Davis, A. D., VanAcker, M. C., Diuk-Wasser, M. A. (Preprint posted 2020). Association of the invasive *Haemaphysalis longicornis* tick with vertebrate hosts, other native tick vectors, and tick-borne pathogens in New York City. *bioRxiv* 2020.07.01.182626; doi: <https://doi.org/10.1101/2020.07.01.182626>.