

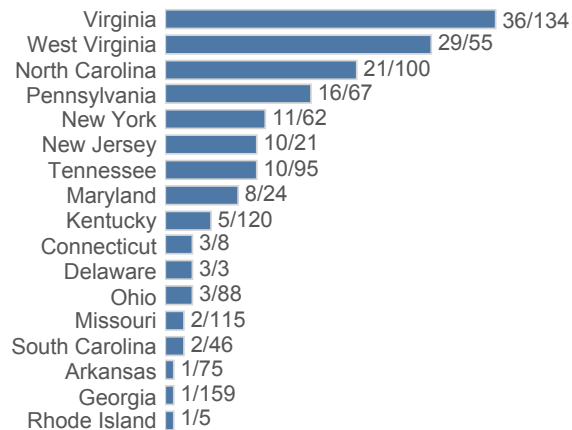
# National *Haemaphysalis longicornis* (Asian longhorned tick) Situation Report

As of November 12, 2021

*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.

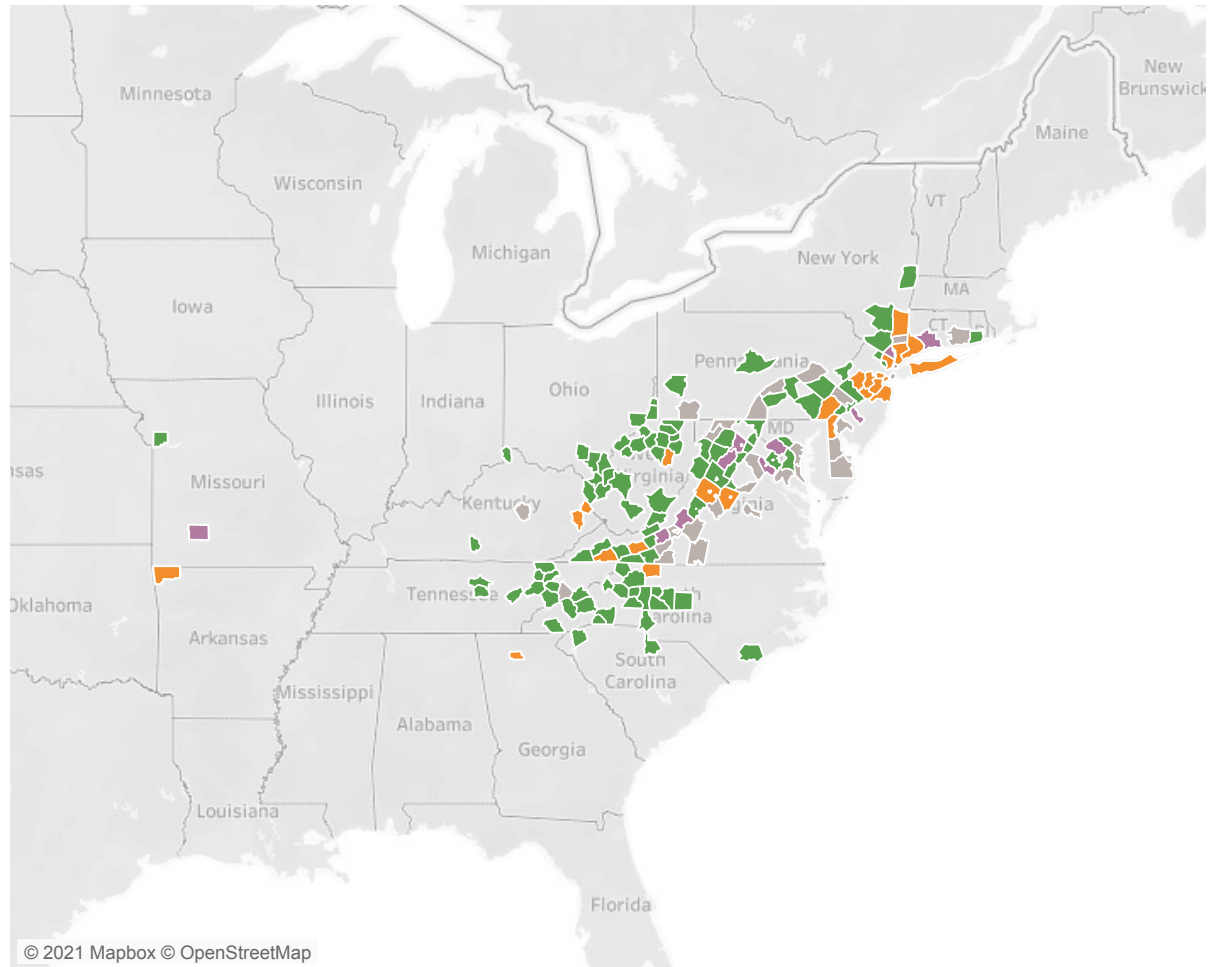
The tick can reproduce parthenogenetically (without a male); as such, a single fed female tick can create a population. It is also a known/suspected vector of several viral, bacterial, and protozoan agents of livestock and human diseases. This three-host tick can spread pathogens among a diverse host 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)**



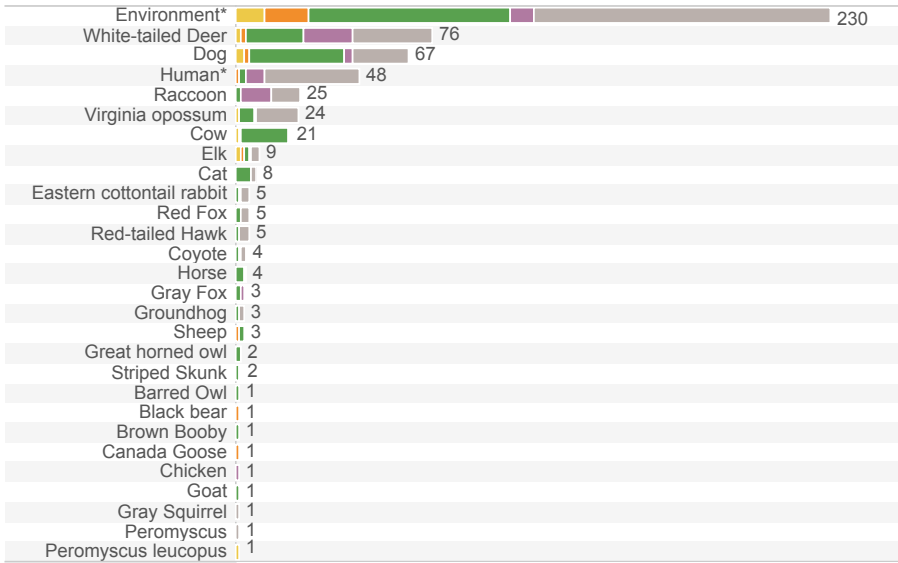
## Type of identification\*

■ Molecular and NVSL    
 ■ NVSL    
 ■ Molecular    
 ■ Taxonomic



# Asian longhorned tick positive hosts information

## Number of positive hosts



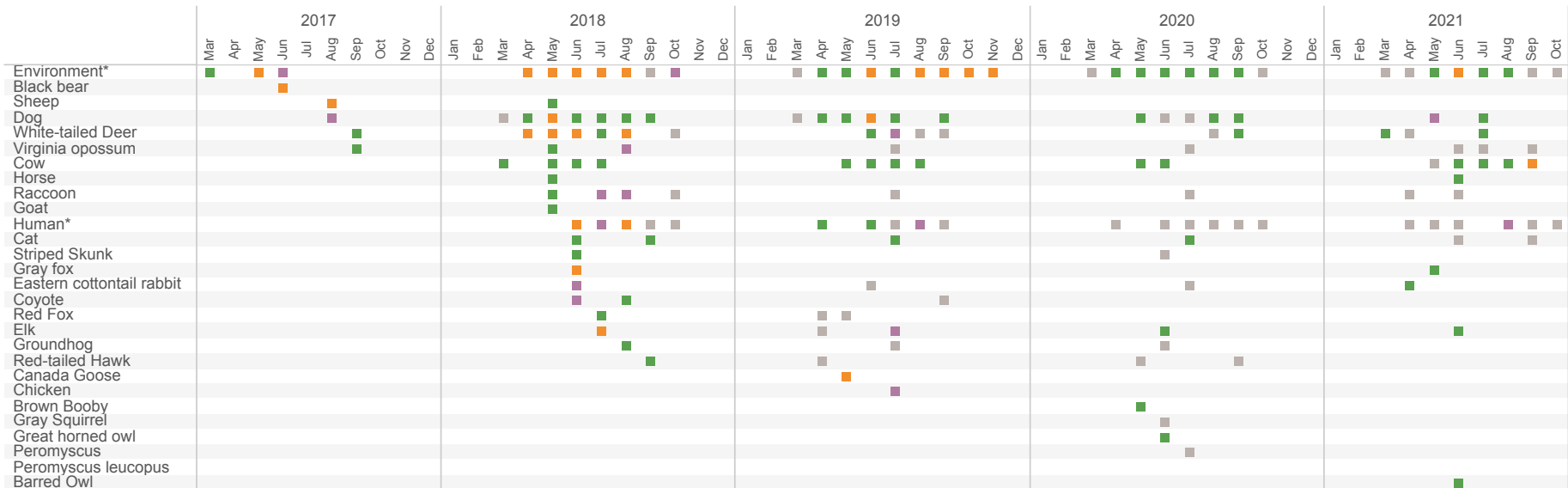
Type of identification (single) - Not aggregated

- No identification provided
- Molecular and NVSL
- NVSL
- Molecular
- Taxonomic

\* Confirmed since last situation report.

Prior to 2017, ticks were collected from a white-tailed deer in 2010 and a dog in 2013.

## Timeline of Asian longhorned tick host positives



## 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
3/27/2017	6/7/2018	Virginia	Fairfax	Environment	NVSL
5/1/2017	4/23/2018	New Jersey	Union	Environment	Molecular and NVSL
6/2/2017		New York	Westchester	Environment	Taxonomic
	4/23/2020	Kentucky	Floyd	Black bear	Molecular and NVSL
6/3/2017	8/14/2018	New York	Richmond	Environment	Molecular and NVSL
8/1/2017	11/9/2017	New Jersey	Hunterdon	Sheep	Molecular and NVSL
8/25/2017		New Jersey	Bergen	Dog	Molecular
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	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	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

## 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
	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	3/8/2019	Kentucky	Martin	Elk	Molecular and NVSL
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
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

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

Earliest collected	Earliest confirmed	State	County	Host	
8/14/2018	9/14/2018	North Carolina	Rutherford	Dog	NVSL
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	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		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
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		Pennsylvania	Franklin	Environment	Taxonomic
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
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	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		Tennessee	Roane	Environment	Taxonomic
6/18/2019		Pennsylvania	Allegheny	Human	Taxonomic

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

Earliest collected	Earliest confirmed	State	County	Host	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
7/5/2019		Pennsylvania	Chester	Chicken	Molecular
7/6/2019		North Carolina	Surry	White-tailed Deer	Molecular
7/10/2019		Virginia	Albemarle	Virginia opossum	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
7/19/2019		Pennsylvania	Montgomery	Human	Taxonomic
		Virginia	Albemarle	Groundhog	Taxonomic
	7/22/2019	Tennessee	Jefferson	Dog	NVSL
7/25/2019	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
8/15/2019	7/10/2020	Virginia	Pulaski	Environment	NVSL
8/27/2019		West Virginia	Mineral	White-tailed Deer	Taxonomic
8/31/2019	9/10/2019	Tennessee	Sevier	Cow	NVSL
9/8/2019		Virginia	Albemarle	Coyote	Taxonomic
				Human	Taxonomic
9/9/2019	12/6/2019	Pennsylvania	Delaware	Environment	NVSL
9/13/2019		Virginia	Goochland	Environment	Taxonomic
9/17/2019	9/27/2019	Tennessee	Putnam	Dog	NVSL
9/18/2019	10/21/2019	West Virginia	Doddridge	Dog	NVSL
9/27/2019		Connecticut	New London	Environment	Taxonomic
	12/6/2019	Pennsylvania	Northampton	Environment	NVSL
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	No identification provided
4/7/2020		Pennsylvania	Bucks	Human	Taxonomic
4/11/2020	4/14/2020	West Virginia	Kanawha	Environment	NVSL
4/28/2020	10/29/2020	Pennsylvania	Dauphin	Environment	NVSL
5/4/2020		New Jersey	Bergen	Brown Booby	NVSL
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
5/19/2020		New York	Westchester	Dog	No identification provided
5/20/2020		Virginia	Rockingham	Virginia opossum	No identification provided
5/25/2020	5/29/2021	Kentucky	Metcalfe	Cow	NVSL

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

Earliest collected	Earliest confirmed	State	County	Host	Taxonomic
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			Richmond	Gray Squirrel	Taxonomic
		New York		Groundhog	Taxonomic
				Striped Skunk	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	No identification provided
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	Taxonomic
6/22/2020	9/16/2020	West Virginia	Harrison	Environment	NVSL
6/25/2020	5/19/2021	New York	Ulster	Environment	NVSL
6/27/2020		Delaware	New Castle	Dog	Taxonomic
6/30/2020	7/10/2020	North Carolina	Macon	Cow	NVSL
7/8/2020		Virginia	Albemarle	Eastern cottontail rabbit	Taxonomic
7/13/2020		Virginia	Albemarle	Peromyscus	Taxonomic
7/15/2020		Kentucky	Madison	Human	Taxonomic
7/18/2020	7/30/2020	Tennessee	Grainger	Cat	NVSL
8/7/2020	10/29/2020	Pennsylvania	Allegheny	Environment	NVSL
8/12/2020	9/25/2020	South Carolina	Pickens	Dog	NVSL
8/24/2020	12/15/2020	South Carolina	Lancaster	Dog	NVSL
8/26/2020		West Virginia	Upshur	White-tailed Deer	Taxonomic
	10/29/2020	West Virginia	Grant	Dog	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	10/5/2020	West Virginia	Pendleton	Dog	NVSL
9/15/2020	3/5/2021	West Virginia	Marshall	Environment	NVSL
9/17/2020	3/5/2021	West Virginia	Ohio	Environment	NVSL
10/27/2020		Virginia	Orange	Environment	Taxonomic
3/5/2021	6/29/2021	North Carolina	Iredell	White-tailed Deer	NVSL
3/19/2021		Tennessee	Claiborne	Environment	Taxonomic
3/22/2021		Tennessee	Cocke	Environment	Taxonomic

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

Earliest collected	Earliest confirmed	State	County	Host	
4/1/2021		Maryland	Washington	Environment	Taxonomic
4/2/2021		Virginia	Montgomery	Eastern cottontail rabbit	Taxonomic
4/6/2021		Maryland	Howard	Peromyscus leucopus	No identification provided
4/12/2021	8/12/2021	Virginia	Loudon	Eastern cottontail rabbit	NVSL
4/22/2021		Maryland	Charles	Environment	Taxonomic
4/24/2021		Pennsylvania	Delaware	Human	Taxonomic
4/28/2021		Pennsylvania	Fayette	Environment	Taxonomic
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
5/14/2021	6/11/2021	West Virginia	Wood	Environment	NVSL
5/18/2021		Maryland	Calvert	Cow	Taxonomic
5/19/2021		Virginia	Warren	Environment	Taxonomic
5/20/2021		Connecticut	New Haven	Human	Molecular
5/21/2021	6/10/2021	West Virginia	Wayne	Environment	NVSL
		Virginia	Patrick	Environment	Taxonomic
5/26/2021	8/6/2021	North Carolina	Ashe	Environment	NVSL
	6/11/2021	North Carolina	Iredell	Cow	NVSL
6/1/2021	8/12/2021	Virginia	Warren	Barred Owl	NVSL
		New Jersey	Passaic	Virginia opossum	Taxonomic
6/2/2021	8/5/2021	New York	Rensselaer	Environment	NVSL
6/6/2021		New Jersey	Bergen	Raccoon	Taxonomic
6/8/2021		Virginia	Loudon	Horse	Taxonomic
6/9/2021		Missouri	Greene	Environment	Molecular
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
6/15/2021		Delaware	New Castle	Cat	Taxonomic
6/16/2021		New York	Kings	Environment	Taxonomic
6/21/2021	7/9/2021	North Carolina	Iredell	Elk	NVSL
6/24/2021	8/26/2021	Pennsylvania	Berks	Environment	NVSL
		Maryland	Calvert	Environment	Taxonomic
6/29/2021			Prince George's	Environment	Taxonomic
		Virginia	Nelson	Environment	Taxonomic



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

Earliest collected	Earliest confirmed	State	County	Host	
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
		New Jersey	Union	White-tailed Deer	Taxonomic
7/6/2021		Pennsylvania	Schuylkill	Environment	Taxonomic
	8/26/2021	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
7/16/2021		Maryland	Anne Arundel	Environment	Taxonomic
7/20/2021	8/20/2021	North Carolina	Watauga	White-tailed Deer	NVSL
7/26/2021	8/26/2021	West Virginia	Jefferson	Dog	NVSL
7/29/2021	8/6/2021	North Carolina	Davie	Environment	NVSL
8/1/2021		Delaware	New Castle	Human	Taxonomic
8/5/2021	8/20/2021	Ohio	Monroe	Cow	NVSL
8/31/2021	9/13/2021	North Carolina	Catawba	Environment	NVSL
9/10/2021	9/20/2021	Georgia	Pickens	Cow	Molecular and NVSL
9/22/2021		Georgia	Pickens	Virginia opossum	Taxonomic
9/23/2021		Georgia	Pickens	Cat	Taxonomic

# Summary of wildlife sampling for Asian longhorned tick

Animal groups	Host	Number of animals			Number confirmed		
		SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services
	American Crow	1					
	American Goldfinch	1					
	American Robin	8	11				
	American Yellow Warbler		1				
	Bald Eagle	8					
	Baltimore Oriole	4					
	Barred Owl	2					
	Black Vulture	1					
	Blue Jay	2					
	Broad-winged Hawk	1					
	Brown Booby	1					
	Brown Thrasher	5					
	Brown-headed Cowbird	3					
	Canada Goose	2					
	Carolina Wren	15					
	Chipping Sparrow	1					
	Common Grackle	3					
	Common Yellowthroat	3	1				
	Cooper's Hawk	4					
	Eastern Phoebe	2					
	Eastern Screech Owl	1					
	Eastern Towhee	2					
	Forster's Tern	2					
	Grackle	2					
	Gray Catbird	17	20				
	Great Blue Heron	2					
	Great-horned Owl	5					
	Hooded Warbler	1					
	House Sparrow	1					
	House Wren	3	2				
	Indigo Bunting		1				
	Kentucky Warbler	3					
	Magnolia Warbler	1					
	Northern Cardinal	27	3				
	Ovenbird	3					
	Purple Finch	1					
	Red-eyed Vireo	3					
	Red-shouldered Hawk	3					
	Red-tailed Hawk	9		2			
	Ruffed Grouse	1					
	Screech Owl	1					
	Sparrow, Unknown Spp.	3					
	Summer Tanager	2					
	Swainson's Thrush	2					
	Veery	1					
	Warbler	3					
	White-eyed Vireo	2					
	White-throated Sparrow	3					
	Wild Turkey	86					
	Wood Thrush	4					
	Yellow Warbler	4					
	Yellow-breasted Chat	1					
Grand Total		266	39		2		

Bird

Tufts, D. M., VanAcker, M. C., Fernandez, M. P., DeNicola, A., Egizi, A., & Diuk-Wasser, M. A. (2019). Distribution, Host-Seeking Phenology, and Host and Habitat Associations of *Haemaphysalis longicornis* Ticks, Staten Island, New York, USA. *Emerging Infectious Diseases*, 25(4), 792-796.

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## Summary of wildlife sampling for Asian longhorned tick

Animal groups	Host_edited	Number of animals			Number confirmed		
		SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services
Mammal	Black Bear	300					
	Bobcat	16					
	Brown Rat		1				
	Canada Goose	1					
	Cotton Rat	7					
	Coyote	20			6		
	Desert Big Horned Sheep	1					
	Domestic Cat	2					
	Domestic Dog	14			4		
	Eastern Chipmunk	3	2				
	Eastern Cottontail	76		1	1		1
	Eastern Gray Squirrel	9					
	Eastern Woodrat	6					
	Elk	76			5		
	Fox	4					
	Gray Fox	9			3		
	Hispid Cotton Rat	19					
	Hog	3					
	House Mouse	4					
	Human	36			3		
	Human (Attached)	1					
	Meadow Vole	2					
	Mexican Free-tailed Bat	1					
	Mule Deer	74					
	Northern Short-tailed Shrew		14				
	Peromyscus Sp.	265					
	Raccoon	211	39	5	37	36	5
	Red Deer	1					
	Red Fox	32			3		
	Skunk	1					
	Southern Red-backed Vole	1					
	Striped Skunk	13	2	1		2	1
	Virginia Opossum	213	21	3	11	20	3
	White-footed Mouse	1	87				
	White-tailed Deer	1,199	16	2	49	16	2
	Woodchuck	33			2		
	Woodland Jumping Mouse	2					
Grand Total		2,656	182	12	124	74	12

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