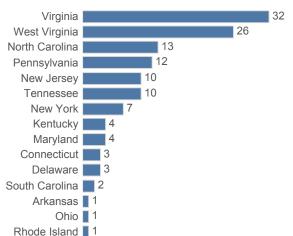
### National Haemaphysalis longicornis (Asian longhorned tick) Situation Report

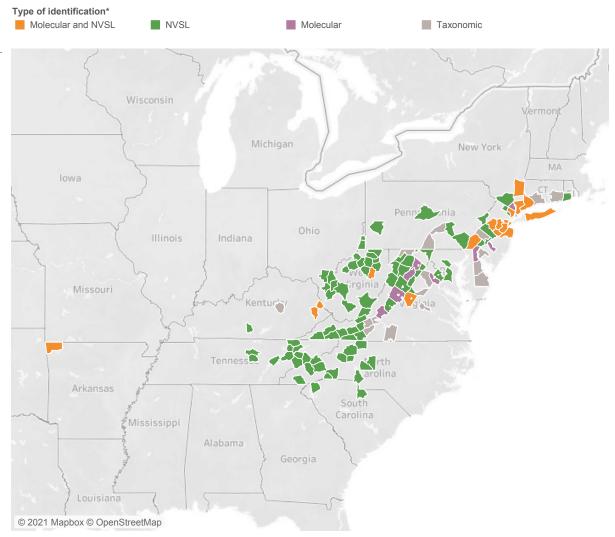
As of May 12, 2021

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





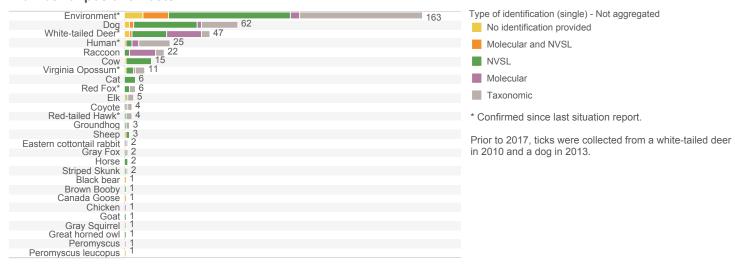


\* H. longicornis identification: NVSL= USDA, National Veterinary Services Laboratories. NVSL performs taxonomic identifications and is the preferred lab for confirmation of new states, counties, and hosts. Molecular= Confirmation of tick species by polymerase chain reaction (PCR) or other DNA-based technology. Taxonomic= Identification by key tick features at a lab other than NVSL.

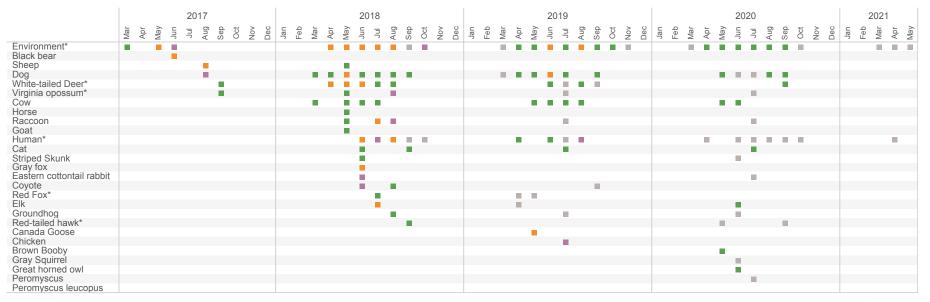
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#### Asian longhorned tick positive hosts information

#### Number of positive hosts



#### Timeline of Asian longhorned tick host positives





State	County	Host	Earliest collected	Earliest confirmed	
Arkansas	Benton	Dog	5/1/2018	6/5/2018	Molecular
		Environment	4/5/2019	4/10/2019	NVSL
Connecticut	Fairfield	Environment	7/3/2018	8/28/2018	Molecular and NVSL
		Human	8/21/2018		Molecular
	New Haven	Environment	6/9/2020		Taxonomic
	New London	Environment	9/27/2019		Taxonomic
Delaware	Kent	Environment	7/26/2019		Taxonomic
	New Castle	Dog	6/27/2020		Taxonomic
		Environment	6/22/2019		Molecular
	Sussex	Red-tailed Hawk	9/9/2020		Taxonomic
Kentucky	Floyd	Black bear	6/2/2017	4/21/2020	Molecular and NVSL
*	Madison	Human	7/15/2020		Taxonomic
	Martin	Elk	7/15/2018	3/7/2019	Molecular and NVSL
	Metcalfe	Cow	5/25/2020		NVSL
Maryland	Allegany	Cow	6/4/2020		No identification provided
. ,	-3- )	Environment	6/12/2019		Taxonomic
	Howard	Environment	5/27/2020	6/19/2020	NVSL
		Peromyscus leucopus	4/6/2021		No identification provided
		White-tailed Deer	3/11/2020		No identification provided
	Prince George's	Human	4/7/2019	5/3/2019	NVSL
	Washington	White-tailed Deer	6/25/2018	7/26/2018	NVSL
New Jersey	Bergen	Brown Booby	5/4/2020		NVSL
,	3 -	Dog	8/25/2017		Molecular
		Environment	7/12/2018	7/16/2018	NVSL
		Human	7/5/2018	7/25/2018	Molecular
		Red Fox	7/31/2018	.,_0,_0	Taxonomic
	Camden	Human	8/2/2019		Molecular
	Hunterdon	Dog	6/11/2019	7/19/2019	NVSL
	Hameldon	Environment	5/10/2018	6/8/2018	NVSL
		Raccoon	5/3/2018	5/25/2018	NVSL
		Sheep	8/1/2017	11/9/2017	Molecular and NVSL
		Virginia opossum	5/3/2018	5/25/2018	NVSL
		White-tailed Deer	4/19/2018	4/24/2018	Molecular and NVSL
	Mercer	Environment	5/10/2018	6/4/2018	Molecular and NVSL
	Middlesex	Dog	9/6/2018	9/26/2018	NVSL
		Environment	5/10/2018	5/14/2018	Molecular and NVSL
		Goat	5/24/2018	6/4/2018	NVSL
		Sheep	5/17/2018	5/23/2018	NVSL
	Monmouth	Environment	8/7/2018	8/17/2018	Molecular and NVSL
	Passaic	Dog	0/1/2010	0,1172010	No identification provided
	1 433410	Environment	10/28/2019	11/12/2019	NVSL
	Salem	Environment	5/27/2020	11/12/2010	Taxonomic
	Somerset	Cat	9/28/2018	10/26/2018	NVSL
	Comerset	Dog	7/31/2018	9/6/2018	Molecular and NVSL
		Human	6/6/2019	7/9/2019	NVSL
		White-tailed Deer	5/27/2018	170/2010	Molecular
	Union	Dog	5/30/2013	6/4/2018	Molecular and NVSL
	OHIOH	Environment	5/1/2017	4/23/2018	Molecular and NVSL
		Groundhog	8/4/2018	9/4/2018	NVSL
		Horse	5/1/2018	6/1/2018	NVSL
		Human	8/3/2018	3/ 1/2010	Molecular
		Raccoon	5/6/2018		Molecular and NVSL
		Virginia Opossum	8/1/2018		Molecular
		viigiiia Opossuiii	0/1/2010		moroodia



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State	County	Host	Earliest collected	Earliest confirmed	
New York	Bronx	Environment	6/18/2018		Taxonomic
	Dutchess	Environment	8/1/2018	3/25/2019	Molecular and NVSL
	Orange	Environment	5/17/2020		NVSL
	Richmond	Environment	6/3/2017	8/14/2018	Molecular and NVSL
		Gray Squirrel	6/1/2020		Taxonomic
		Groundhoa	6/1/2020		Taxonomic
		Striped Skunk	6/1/2020		Taxonomic
		White-tailed Deer	6/3/2018		Molecular
	Rockland	Dog	6/12/2020 6/21/2018		Taxonomic
		Environment	6/21/2018	8/27/2018	Molecular
		Human	6/14/2020 8/24/2018		Taxonomic
	Suffolk	Environment	8/24/2018	10/4/2018	Molecular and NVSL
	Unknown	Canada Goose	5/21/2019 5/19/2020	7/19/2019	Molecular and NVSL
	Westchester	Dog	5/19/2020		No identification provided
		Environment	6/2/2017	0/00/0040	Taxonomic
	A1	Human	6/4/2018 7/12/2019	6/28/2018	Molecular and NVSL
North Carolina	Alexander	Dog	7/12/2019	7/25/2019	NVSL NVSL NVSL
	Buncombe	Environment	5/31/2020	40/4/0000	NV5L NVCI
	Caldwell	White-tailed Deer	9/2/2020	12/4/2020 9/20/2018	NVSL
	Davidson	Human	8/1/2018 3/28/2019	11/22/2019	NVSL
	Haywood	Dog	5/20/2019	11/22/2019	
	Macon	Environment Cow	5/1/2019 6/30/2020	7/10/2020	Taxonomic NVSL
		Dog	3/38/3040	1/10/2020	NVSL
	Madison	Environment	3/28/2018 5/16/2020		NVQI
	Mecklenburg	Environment	5/17/2020		NVSL NVSL
	Polk		5/17/2020 9/15/2017 6/10/2020	6/25/2018	NVSL
	Rowan	Virginia opossum Elk	6/10/2017	7/10/2020	NVSL
	Rutherford	Dog	8/14/2018	9/14/2018	NVSL
		Cow	6/20/2019	7/3/2019	NVSL
	Surry	Environment	3/0/2019	77372019	Taxonomic
	Wilkes	Dog	3/9/2020 7/26/2019 5/28/2020	12/31/2010	NVSL
Ohio	Gallia	Dog	5/28/2020	12/31/2019 7/29/2020	NVSL
		Environment	8/7/2020	10/29/2020	NVSL
Pennsylvania	Allegheny	Human	6/18/2019	10/23/2020	Taxonomic
		Environment	5/23/2018	9/4/2018	NVSL
	DUCKS	Human	4/7/2020	3/4/2010	Taxonomic
	Centre	White-tailed Deer	4/7/2020 7/10/2018	7/26/2018	NVSL
	Chester	Chicken	7/5/2019	1720/2010	Molecular
	Chestel	Environment	7/5/2019 5/3/2019	12/6/2019	NVSL
		Red-tailed Hawk	9/14/2020	12/0/2010	Taxonomic
	Dauphin	Environment	4/28/2020 9/9/2019	10/29/2020	NVSI
	Delaware	Environment	9/9/2019	12/6/2019	NVSL NVSL
	Franklin	Environment	4/19/2019	12.0,2010	Taxonomic
	Lancaster	Environment	5/28/2020	10/29/2020	NVSL
	Montgomery	Environment	5/3/2019 7/19/2019 9/27/2019		Taxonomic
	workgomory	Human	7/19/2019		Taxonomic
	Northampton	Environment	9/27/2019	12/6/2019	NVSL
	Perry	Dog	5/12/2019		Taxonomic
	Philadelphia	Environment	5/3/2019	12/6/2019	NVSL
Rhode Island	Washington	Environment	6/21/2018		NVSL
South Carolina	Lancaster	Dog	8/24/2020	12/15/2020	NVSL
Journ Jaronila	Pickens	Dog	8/12/2020 7/29/2019	9/25/2020	NVSL
Tennessee	Claiborne	Dog	7/29/2019	9/25/2020 9/10/2019	NVSL
Telliessee	JIGIDOTTIO	Environment	3/19/2021		Taxonomic
	Cocke	Cow	8/24/2019	8/29/2019	NVSL
		Environment	10/17/2019		Taxonomic
	Grainger	Cat	7/18/2020	7/30/2020	NVSL
	Jefferson	Dog	7/19/2019	7/22/2019	NVSL
	Knox	Cow	6/7/2019	6/11/2019 6/11/2019	NVSL
		White-tailed Deer	6/7/2019	6/11/2019	NVSL NVSL
	Putnam	Dog	9/17/2019	9/27/2019	NVSL
	Roane	Cow	5/22/2019	5/24/2019	NVSL
		Environment	6/14/2019 8/31/2019		Taxonomic
			0/04/0040	0/40/0040	NVG
	Sevier	Cow	8/31/2019	9/10/2019	NVSL
	Sevier Union White	Cow Dog	5/13/2019 5/15/2020	5/21/2019 5/21/2019 7/10/2020	NVSL NVSL NVSL



State	County	Host	Earliest collected	Earliest confirmed	
Virginia	Albemarle	Cow	3/1/2018	5/14/2018	NVSL
		Coyote	9/8/2019		Taxonomic
		Eastern cottontail rabbit	7/8/2020		Taxonomic
		Environment	6/6/2018	7/3/2018	NVSL
		Groundhog	7/19/2019		Taxonomic
		Human	7/7/2020		Taxonomic
		Peromyscus	7/13/2020		Taxonomic
		Raccoon	7/11/2019		Taxonomic
		Striped Skunk	6/10/2018	11/30/2018	NVSL
		Virginia opossum	7/10/2019		Taxonomic
		White-tailed Deer	6/2/2018		Molecular and NVSL
	Albermarle	Red Fox	4/15/2019		Taxonomic
	Augusta	Red-tailed Hawk	5/17/2020		Taxonomic
	ragasta	White-tailed Deer	6/23/2018		Molecular
	Botetourt	Environment	10/4/2018		Molecular
	Carroll	Dog	7/1/2018	8/31/2018	NVSL
	Carron	Environment	6/3/2019	8/14/2019	NVSL
	Clarke	Great horned owl	6/1/2020	8/12/2020	NVSL
	Clarke	Red Fox	7/4/2018	0/12/2020	NVSL
	Fairfax	Environment	3/27/2017	6/7/2018	NVSL
	Falliax	Human			Taxonomic
	F	Environment	9/20/2018	7/18/2019	Taxonomic
	Fauquier	Red Fox	8/5/2018 5/7/2019		
	Flared				Taxonomic
	Floyd	Environment	5/26/2020		Taxonomic
	Frederick	Gray fox	6/21/2018		Molecular
	Galax City	Environment	6/21/2019		Taxonomic
	Giles	Environment	6/23/2018	7/27/2018	NVSL
	Goochland	Environment	9/13/2019		Taxonomic
	Grayson	Environment	5/8/2018	7/27/2018	NVSL
	Greene	Red Fox	7/11/2018		NVSL
	Montgomery	Environment	6/24/2019		Taxonomic
	Orange	Environment	10/27/2020		Taxonomic
	Page	Cow	6/25/2018	6/29/2018	NVSL
		Red-tailed hawk	9/17/2018		NVSL
	Pittsylvania	Environment	6/5/2019		Taxonomic
	Prince William	Environment	8/5/2019		Molecular
	Pulaski	Cow	7/5/2018	7/11/2018	NVSL
		Environment	8/15/2019	7/10/2020	NVSL
		Gray Fox	6/13/2018	9/13/2018	NVSL
	Roanoke	Dog	4/10/2019		Taxonomic
	Rockbridge	White-tailed Deer	5/25/2018	9/13/2018	NVSL
	Rockingham	Virginia opossum	5/20/2020		No identification provided
		White-tailed Deer	7/25/2018		NVSL
	Russell	Dog	6/1/2018	8/31/2018	NVSL
	Scott	Dog	7/1/2018	8/31/2018	NVSL
	Shenandoah	Eastern cottontail rabbit	6/15/2018		Molecular
	Smyth	Environment	6/7/2018	6/28/2018	NVSL
	Staunton City	White-tailed Deer	6/15/2018	9/13/2018	NVSL
	Warren	Horse	5/10/2018	5/25/2018	NVSL
	Washington	Environment	5/17/2019	-	NVSL
	Wythe	Environment	6/23/2018	7/23/2018	NVSL



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State	County	Host	Earliest collected	Earliest confirmed	
West Virginia	Barbour	Dog	8/31/2018	11/16/2018	NVSL
	Cabell	Dog	7/10/2018	8/7/2018	NVSL
	Doddridge	Dog	9/18/2019	10/21/2019	NVSL
	Grant	Dog	8/26/2020	10/29/2020	NVSL
	Grant	White-tailed Deer	10/3/2018		No identification provided
	Greenbrier	Environment	5/27/2020	7/14/2020	NVSL
	Hampshire	White-tailed Deer	8/1/2018	5/1/2019	NVSL
		Cat	6/21/2018	7/10/2018	NVSL
	Hardy	Cow	5/18/2018	5/21/2018	NVSL
	пагиу	Dog	6/21/2018	7/23/2018	NVSL
		White-tailed Deer	9/20/2018		Taxonomic
	Harrison	Environment	8/19/2020	9/16/2020	NVSL
	Kanawha	Environment	4/11/2020	4/14/2020	NVSL
	Lewis	White-tailed Deer	8/30/2018	4/17/2019	NVSL
	Lincoln	Dog	4/19/2018	6/27/2018	NVSL
	Marion	Cat	6/7/2018	7/6/2018	NVSL
	Marshall	Environment	9/15/2020	3/5/2021	NVSL
	Mason	Dog	7/7/2018	7/11/2018	NVSL
	Mineral	White-tailed Deer	8/27/2019	3/2/2020	NVSL
	Monongalia	Cat	7/25/2019	8/13/2019	NVSL
	Monroe	Environment	7/2/2018	7/9/2018	NVSL
	Ohio	Environment	9/17/2020	3/5/2021	NVSL
	Pendleton	Dog	9/12/2020	10/5/2020	NVSL
	Putnam	Dog	5/2/2018	6/18/2018	NVSL
	Raleigh	Environment	6/3/2020	7/13/2020	NVSL
		COW	6/2/2019	6/11/2019	NVSL
	Ritchie	Dog	5/26/2018	6/19/2018	NVSL
		Environment	7/6/2018	7/23/2018	NVSL
	Taylor	White-tailed Deer	9/1/2017	6/28/2018	NVSL
	Tyler	White-tailed Deer	8/31/2010	6/25/2018	NVSL
	Upshur	Coyote	6/22/2018	8/24/2018	Molecular and NVSL
	Wirt	White-tailed Deer	8/28/2018	5/1/2019	NVSL



# **Summary of wildlife sampling for Asian longhorned tick**

			Number of animals			Number confirmed	
Animal groups	Host	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services	SCWDS	Tufts et al., 2019 & 2020	USDA, Wildlife Services
Bird	American Crow	1					
	American Robin	7	11				
	American Yellow Warbler		1				
	Bald Eagle	8					
	Baltimore Oriole	4					
	Barred Owl	1					
	Black Vulture	1					
	Blue Jay	2					
	Broad-winged Hawk	1					
	Brown Booby	1					
	Brown Thrasher	3					
	Brown-headed Cowbird	3					
	Canada Goose	2					
	Carolina Wren	14					
	Chipping Sparrow	1					
	Common Grackle	3					
	Common Yellowthroat	3	1				
	Cooper's Hawk	4					
	Eastern Phoebe	2					
	Eastern Screech Owl	1					
	Forster's Tern	2					
	Grackle	2					
	Gray Catbird	<b>1</b> 7	20				
	Great Blue Heron	2					
	Great-horned Owl	5					
	House Sparrow	1					
	House Wren	3	2				
	Indigo Bunting		1				
	Northern Cardinal	16	3				
	Ovenbird	3					
	Red-eyed Vireo	2					
	Red-shouldered Hawk	2					
	Red-tailed Hawk	9					
	Ruffed Grouse	1					
	Screech Owl	1					
	Sparrow, Unknown Spp.	3					
	Swainson's Thrush	] 1					
	Veery	1					
	Warbler	3					
	White-throated Sparrow	2					
	Wild Turkey	86					
	Wood Thrush	4					
	Yellow Warbler	4					
Grand Total		232	39				

Tufts, D. M., VanAcker, M. C., Fernandez, M. P., DeNicola, 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.



# **Summary of wildlife sampling for Asian longhorned tick**

			Number of animals		Number confirmed		
Animal groups	Host	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 Dog	13			4		
	Eastern Chipmunk	2	2				
	Eastern Cottontail	75		1	1		1
	Eastern Gray Squirrel	9					
	Eastern Woodrat	6					
	Elk	69			5		
	Fox	4					
	Gray Fox	9			3		
	Hispid Cotton Rat	6					
	Hog	3					
	Human	29			3		
	Human (Attached)	1					
	Meadow Vole	2					
	Mexican Free-tailed Bat	1					
	Mule Deer	74					
	Northern Short-tailed Shrew		14				
	Peromyscus Leucopus		87				
	Peromyscus Sp.	239					
	Raccoon	210	39	5	37	36	5
	Red Deer	1					
	Red Fox	31			3		
	Skunk	1					
	Southern Red-backed Vole	1					
	Striped Skunk	12	2	1		2	1
	Virginia Opossum	201	21	3	11	20	3
	White-footed Mouse	1					
	White-tailed Deer	1,189	16	2	49	16	2
	Woodchuck	33			2		
	Woodland Jumping Mouse	2					
Grand Total		2,569	182	12	124	74	12

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