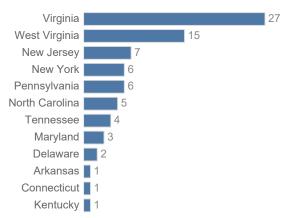
### National Haemaphysalis longicornis (Asian longhorned tick) Situation Report

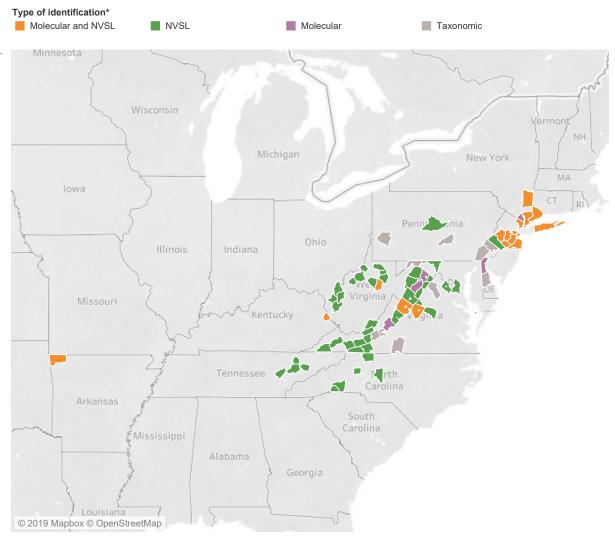
As of August 5, 2019

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



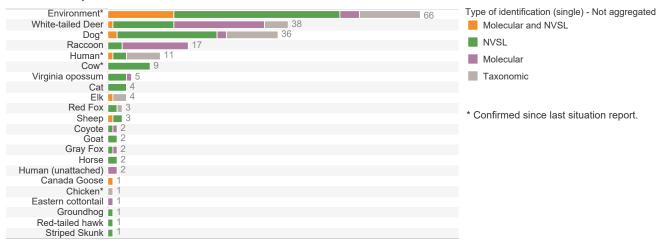




\* H. longicomis identification: NVSL= USDA, National Veterinary Services Laboratories. NVSL performs taxonomic identifications and is the preferred lab for confirmation of new states, counties, and hosts. Molecular= Confirmation of tick species by polymerase chain reaction (PCR) or other DNA-based technology.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

#### Asian longhorned tick positive hosts information

#### **Number of positive hosts**



#### Timeline of Asian longhorned tick host positives



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



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
Delaware	Kent	Environment	7/26/2019		Taxonomic
	New Castle	Environment	6/22/2019		Molecular
Kentucky	Martin	Elk	7/15/2018	3/7/2019	Molecular and NVSL
Maryland	Allegany	Environment	6/12/2019		Taxonomic
	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	dog	8/25/2017		Molecular
		Environment	7/12/2018	7/16/2018	NVSL
		Human (unattached)	7/5/2018	7/25/2018	Molecular
		Red Fox	7/31/2018		Taxonomic
	Hunterdon	Dog	6/11/2019	7/19/2019	NVSL
		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
	Somerset	Cat	9/28/2018	10/26/2018	NVSL
		Dog	7/31/2018	9/6/2018	Molecular and NVSL
		Human	6/6/2019	7/9/2019	NVSL
		White-tailed Deer	5/27/2018		Molecular
	Union	Dog	5/30/2013	6/4/2018	Molecular and NVSL
		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 (unattached)	8/3/2018		Molecular
		Raccoon	5/6/2018		Molecular and NVSL
		Virginia Opossum	8/1/2018		Molecular



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
	Richmond	Environment	6/3/2017	8/14/2018	Molecular and NVSL
		White-tailed Deer	6/3/2018		Molecular
	Rockland	Environment	6/21/2018	8/27/2018	Molecular
	Suffolk	Environment	8/24/2018	10/4/2018	Molecular and NVSL
	Unknown	Canada Goose	5/21/2019	7/19/2019	Molecular and NVSL
	Westchester	Environment	6/2/2017		Taxonomic
		Human	6/4/2018	6/28/2018	Molecular and NVSL
North Carolina	Alexander	dog	7/12/2019	7/25/2019	NVSL
	Davidson	Human	8/1/2018	9/20/2018	NVSL
	Polk	Virginia opossum	9/15/2017	6/25/2018	NVSL
	Rutherford	Dog	8/14/2018	9/14/2018	NVSL
	Surry	Cow	6/20/2019	7/3/2019	NVSL
Pennsylvania	Allegheny	Human	2017		Taxonomic
	Bucks	Environment	5/23/2018	9/4/2018	NVSL
	Centre	White-tailed Deer	7/10/2018	7/26/2018	NVSL
	Chester	Chicken	7/5/2019		Taxonomic
	Montgomery	Human	7/19/2019		Taxonomic
	Perry	Dog	5/12/2019		Taxonomic
Tennessee	Jefferson	Dog	7/19/2019	7/22/2019	NVSL
	Knox	Cow	6/7/2019	6/11/2019	NVSL
	Roane	Cow	5/22/2019	5/24/2019	NVSL
	Union	Dog	5/13/2019	5/21/2019	NVSL



Virginia Albemarie Gow 311/2018 614/2018 NVSL   Le Fille Sturin 618/2018 73/2018 NVSL   Augusta Wilhe-Laider Deer 61/20201 Holl Octobral and NVSL   Boteburt Environment 161/2018 91/32018 Molecular and NVSL   Caroll Op 71/2018 91/32018 Molecular and NVSL   Clarke Res Fox 71/2018 91/32018 MVSL   Clarke Res Fox 71/2018 73/2018 NVSL   Fairfax Environment 92/2018 71/2018 NVSL   Fauguier Environment 95/2018 71/2018 NVSL   Galax City Environment 95/2018 72/2018 NVSL   Giles Environment 92/2018 72/27018 NVSL   Giles Environment 92/2018 72/27018 NVSL   Giles Environment 92/2018 72/27018 NVSL   Louisa Godat 91/2018 72/27018 NVSL	State	County	Host	Earliest collected	Earliest confirmed	
Striped Stunik 67/02018 11/00/2018 NVSL   Augusta White-failed Deer 67/2018 Molecular and NVSL   Botefourt Environment 10/4/2018 Molecular and NVSL   Botefourt Environment 10/4/2018 Molecular   Carroll Dog 71/1/2018 8/31/2018 NVSL   Clarke Red Fox 71/4/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Faugular Environment 8/5/2018 7/18/2019 Taxonomic   Frederick Gray fox 6/21/2018 Molecular   Galax City Environment 6/21/2019 Taxonomic   Glass City Environment 5/82/018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goa 6/12/2018 6/28/2018 NVSL   Monigormery Environment 6/24/2019 Taxonomic NVSL	Virginia	Albemarle	Cow	3/1/2018	5/14/2018	NVSL
Augusta White-tailed Deer 6/22018 Molecular and NVSL   Botelout Environment 10/42018 Molecular and NVSL   Carroll Dog 7/1/2018 8/31/2018 NVSL   Clarke Red Fox 7/4/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Fauguer Environment 8/52/018 Taxonomic   Frederick Gray fox 6/21/2018 Taxonomic   Galax City Environment 6/27/2019 Taxonomic   Grayson Environment 6/27/2019 Taxonomic   Grayson Environment 6/27/2018 NVSL   Louisa Goat 6/1/2018 7/27/2018 NVSL   Mortgomery Environment 6/23/2018 7/27/2018 NVSL   Louisa Goat 6/1/2018 6/28/2018 NVSL   Mortgomery Environment 6/2/2018 6/29/2018 NVSL   Page Cow 6/2/5/2018 6/29/2018 NVSL			Environment	6/6/2018	7/3/2018	NVSL
Augusta White-tailed Deer 6/10/2018 9/13/2016 Molecular and NVSL   Botelourt Environment 10/4/2018 Molecular   Carroll Dog 7/1/2018 8/31/2018 NVSL   Clarke Red Fox 7/4/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Fauquier Environment 8/5/2018 7/18/2019 Taxonomic   Federick Gray fox 6/21/2018 Molecular   Galax CIV Environment 6/21/2018 7/27/2018 NVSL   Grayson Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 6/23/2018 7/27/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Mentgomery Environment 6/24/2019 Taxonomic   Pilasylvania Environment 6/26/2018 N/SL   Pilaski Gray Fox 6/13/2018 7/11/2018 NVSL   Roackingham Princonment			Striped Skunk	6/10/2018	11/30/2018	NVSL
Boteout Environment 104/2018 Molecular   Carroll Dog 71/2018 8/31/2018 NVSL   Clarke Red Fox 71/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Fauquier Environment 8/5/2018 Taxonomic   Frederick Gray fox 6/21/2019 Taxonomic   Galax City Environment 6/21/2019 Taxonomic   Giles Environment 6/23/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Mortgomery Environment 6/24/2018 NVSL   Mortgomery Environment 6/24/2018 NVSL   Mortgomery Environment 6/24/2018 NVSL   Mortgomery Environment 6/24/2018 8/29/2018 NVSL   Pitasylamia Environment 6/24/2018 8/29/2018 NVSL   Pitasylamia Environment 6/52/2018			White-tailed Deer	6/2/2018		Molecular and NVSL
Carroll Dog 7/1/2018 8/31/2018 NVSL   Clarke Red Fox 7/4/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Funderick Environment 9/20/2018 7/18/2019 Taxonomic   Fauquier Environment 6/5/2018 Taxonomic   Galax Cily Environment 6/21/2019 Taxonomic   Galax Cily Environment 6/21/2019 Taxonomic   Giles Environment 6/23/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 7/27/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Rockbridge		Augusta	White-tailed Deer	6/10/2018	9/13/2018	Molecular and NVSL
Clarke Red Fox 7/4/2018 NVSL   Fairfax Environment 3/27/2017 6/7/2018 NVSL   Fauquier Environment 8/5/2018 7/18/2019 Taxonomic   Frederick Gray fox 6/21/2018 Molecular   Galax City Environment 6/21/2019 Taxonomic   Gles Environment 6/21/2018 7/27/2018 NVSL   Grayson Environment 6/8/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 7/27/2018 NVSL   Louisa Goat 6/24/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2018 6/28/2018 NVSL   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018		Botetourt	Environment	10/4/2018		Molecular
Fairfax Environment 3/27/2017 6/72018 NVSL   Fauquier Environment 8/5/2018 7/18/2019 Taxonomic   Frederick Gray fox 6/21/2018 Molecular   Galax City Environment 6/21/2019 Taxonomic   Gles Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 6/23/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Montgomery Environment 6/24/2019 Taxonomic   Piltsylvania Environment 6/25/2018 6/29/2018 NVSL   Piltsylvania Environment 6/5/2019 Taxonomic   Roanoke Dog 7/1/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockingham White-tailed Deer 5/25/2018 9/13/2018 NVSL		Carroll	Dog	7/1/2018	8/31/2018	NVSL
Human 9/20/2018 7/18/2019 Taxonomic   Fauquier Environment 8/5/2018 Taxonomic   Frederick Gray fox 6/21/2018 Molecular   Galax City Environment 6/21/2019 Taxonomic   Giles Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 5/8/2018 7/27/2018 NVSL   Louisa Goat 6/12/2018 7/27/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2018 6/29/2018 NVSL   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 6/13/2018 9/13/2018 NVSL   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rosckingham White-tailed Deer 7/52/2018		Clarke	Red Fox	7/4/2018		NVSL
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Frederick Gray fox 6/21/2018 Molecular   Galax City Environment 6/21/2019 Taxonomic   Giles Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 5/8/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/52/2018 NVSL   Pullaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Russell Dog 6/13/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 7/25/2018 8/31/2018 NVSL   Scott Dog 6/1/2018 8/31/2018 NVSL<			Human	9/20/2018	7/18/2019	Taxonomic
Galax City Environment 6/21/2019 Taxonomic   Giles Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 5/8/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 6/13/2018 9/13/2018 NVSL   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 7/25/2018 NVSL NVSL   Scott Dog 6/12/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 8/31/2018 NVSL   Smyth Environment <td< td=""><td></td><td>Fauquier</td><td>Environment</td><td>8/5/2018</td><td></td><td>Taxonomic</td></td<>		Fauquier	Environment	8/5/2018		Taxonomic
Giles Environment 6/23/2018 7/27/2018 NVSL   Grayson Environment 5/8/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2018 NVSL   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 5/25/2018 9/13/2018 NVSL   Russell Dog 6/12/2018 8/31/2018 NVSL   Scott Dog 7/12/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 8/31/2018 NVSL   Smyth Environment 6/7/2		Frederick	Gray fox	6/21/2018		Molecular
Grayson Environment 5/8/2018 7/27/2018 NVSL   Greene Red Fox 7/11/2018 6/28/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/52/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rocklingham White-tailed Deer 7/25/2018 9/13/2018 NVSL   Scott Dog 6/11/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 NVSL   Smyth Environment 6/15/2018 9/13/2018 NVSL   Warren Horse 5/10/2018 5/25/2018 NVSL		Galax City	Environment	6/21/2019		Taxonomic
Greene Red Fox 7/11/2018 NVSL   Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 NVSL   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Russell Dog 6/12/018 8/31/2018 NVSL   Russell Dog 6/12/018 8/31/2018 NVSL   Scott Dog 7/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 WS Molecular   Smyth Environment 6/7/2018 6/28/2018 NVSL   Warren Horse 5/10/2018 5/25/2018 NVSL		Giles	Environment	6/23/2018	7/27/2018	NVSL
Louisa Goat 6/12/2018 6/28/2018 NVSL   Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 6/13/2018 9/13/2018 NVSL   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rocksingham White-tailed Deer 7/25/2018 NVSL NVSL   Scott Dog 6/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 8/31/2018 NVSL   Smyth Environment 6/17/2018 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		Grayson	Environment	5/8/2018	7/27/2018	NVSL
Montgomery Environment 6/24/2019 Taxonomic   Page Cow 6/25/2018 6/29/2018 NVSL   Page Red-tailed hawk 9/17/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 7/25/2018 9/13/2018 NVSL   Scott Dog 6/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 8/31/2018 NVSL   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		Greene	Red Fox	7/11/2018		NVSL
Page Cow 6/25/2018 6/29/2018 NVSL   Red-tailed hawk 9/17/2018 NVSL   Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 6/13/2018 9/13/2018 NVSL   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 7/25/2018 9/13/2018 NVSL   Russell Dog 6/11/2018 8/31/2018 NVSL   Scott Dog 7/11/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 Molecular   Smyth Environment 6/17/2018 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		Louisa	Goat	6/12/2018	6/28/2018	NVSL
Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 6/13/2018 9/13/2018 NVSL   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham White-tailed Deer 7/25/2018 9/13/2018 NVSL   Russell Dog 6/1/2018 8/31/2018 NVSL   Scott Dog 7/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 6/15/2018 Molecular   Smyth Environment 6/7/2018 6/28/2018 NVSL   Warren Horse 5/10/2018 9/13/2018 NVSL		Montgomery	Environment	6/24/2019		Taxonomic
Pittsylvania Environment 6/5/2019 Taxonomic   Pulaski Cow 7/5/2018 7/11/2018 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 White-tailed Deer 7/25/2018 NVSL NVSL   Russell Dog 6/1/2018 8/31/2018 NVSL   Scott Dog 7/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 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		Page	Cow	6/25/2018	6/29/2018	NVSL
Pulaski Cow 7/5/2018 7/11/2018 NVSL   Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham 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 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			Red-tailed hawk	9/17/2018		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 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 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		Pittsylvania	Environment	6/5/2019		Taxonomic
Roanoke Dog 4/10/2019 Taxonomic   Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham 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 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		Pulaski	Cow	7/5/2018	7/11/2018	NVSL
Rockbridge White-tailed Deer 5/25/2018 9/13/2018 NVSL   Rockingham 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 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			Gray Fox	6/13/2018	9/13/2018	NVSL
Rockingham 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 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		Roanoke	Dog	4/10/2019		Taxonomic
Russell Dog 6/1/2018 8/31/2018 NVSL   Scott Dog 7/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 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		Rockbridge	White-tailed Deer	5/25/2018	9/13/2018	NVSL
Scott Dog 7/1/2018 8/31/2018 NVSL   Shenandoah Eastern cottontail 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		Rockingham	White-tailed Deer	7/25/2018		NVSL
Shenandoah Eastern cottontail 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		Russell	Dog	6/1/2018	8/31/2018	NVSL
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		Scott	Dog	7/1/2018	8/31/2018	NVSL
Staunton City White-tailed Deer 6/15/2018 9/13/2018 NVSL   Warren Horse 5/10/2018 5/25/2018 NVSL		Shenandoah	Eastern cottontail	6/15/2018		Molecular
Warren Horse 5/10/2018 5/25/2018 NVSL		Smyth	Environment	6/7/2018	6/28/2018	NVSL
		Staunton City	White-tailed Deer	6/15/2018	9/13/2018	NVSL
Wythe Environment 6/23/2018 7/23/2018 NVSL		Warren	Horse	5/10/2018	5/25/2018	NVSL
		Wythe	Environment	6/23/2018	7/23/2018	NVSL



State	County	Host	Earliest collected	Earliest confirmed	
	Barbour	Dog	8/31/2018	11/16/2018	NVSL
	Cabell	Dog	7/10/2018	8/7/2018	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
		Dog	6/21/2018	7/23/2018	NVSL
	Lewis	White-tailed Deer	8/30/2018		NVSL
	Lincoln	Dog	4/19/2018	6/27/2018	NVSL
	Marion	Cat	6/7/2018	7/6/2018	NVSL
West Virginia	Mason	Dog	7/7/2018	7/11/2018	NVSL
	Monroe	Environment	7/2/2018	7/9/2018	NVSL
	Putnam	Dog	5/2/2018	6/18/2018	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	USDA, Wildlife Services	SCWDS	Tufts et al., 2019	USDA, Wildlife Services	
Bird	American robin	3	11					
	American yellow warbler		1					
	Baltimore oriole	2						
	Brown thrasher	1						
	Brown-headed cowbird	1						
	Canada Goose	1						
	Carolina wren	4						
	Common yellowthroat	1	1					
	Eastern phoebe	1						
	Forster's tern	1						
	Grackle	1						
	Gray catbird	7	20					
	House wren	1	2					
	Indigo Bunting		1					
	Northern cardinal	6	3					
	Ovenbird	1						
	Red-eyed vireo	1						
	Red-tailed Hawk	1			1			
	Warbler	1						
	Wild turkey	40						
	Wood thrush	2						
	Yellow warbler	2						
Grand Total		78	39		1			

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.



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

			Number of animals		Number confirmed			
Animal groups	Host	SCWDS	Tufts et al., 2019	USDA, Wildlife Services	SCWDS	Tufts et al., 2019	USDA, Wildlife Services	
Mammal	Black bear	110						
	Bobcat	2						
	Brown rat		1					
	Coyote	7			2			
	Domestic dog	2						
	Eastern chipmunk	1	2					
	Eastern cottontail	16		1			1	
	Eastern woodrat	2						
	Elk	13						
	Fox	2						
	Gray fox	3			1			
	Gray squirrel	1						
	Groundhog	26		4	1		4	
	Hispid cotton rat	2						
	Hog	1						
	Human	9			1			
	Meadow vole	1						
	Mule Deer	10						
	Northern short-tailed shrew		14					
	Peromyscus leucopus		87					
	Peromyscus sp.	56						
	Raccoon	81		5	16		5	
	Red fox	4			1			
	Striped skunk	4		1			1	
	Virginia Opossum	80		3	5		3	
	White-tailed deer	300	16	2	14	16	2	
Grand Total		733	120	16	41	16	16	

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