Summary of Tick Testing 2022

A total of 249 ticks were submitted by the public, State agencies, and physicians' offices to the Connecticut Veterinary Medical Diagnostic Laboratory (CVMDL) for testing for tick borne pathogens. Of these, 178 (71.5 %) were identified as Ixodes scapularis (blacklegged or deer tick), 41 (16.5%) as Dermacentor variabilis (American dog tick), 29 (11.6%) as Amblyomma americanum (lone star tick), and 1 (0.004%) as other tick species.

Scientific Name	Common Name	Number of ticks (%)
Ixodes scapularis	Blacklegged or Deer tick	178 (71.5%)
Dermacentor variabilis	Dog tick	41 (16.5%)
Amblyomma americanum	Lonestar tick	29 (11.6%)
Haemaphysalis longicornis	Long-horned tick	1 (0.004%)

A total of 178* adult and nymphal blacklegged ticks were tested for evidence of infection with several pathogens including *Borrelia burgdorferi*, the causative organism of Lyme disease. Deer ticks screened for *B. burgdorferi* were also examined for evidence of infection with *Anaplasma phagocytophilum*, *Borrelia miyamotoi,* and Babesia microti, the causative agents of anaplasmosis and babesiosis, respectively. Of the 178 ticks screened, 36.0% tested positive for B. burgdorferi, 6.2% for A. phagocytophilum, 1.1% tested positive for B. miyamotoi, and 1.7% for B. microti. A total of 10 ticks were simultaneously co-infected with two or more pathogens as depicted in the table below.

Pathogen detected	Disease caused	Ticks infected (%)
Borrelia burgdorferi X AP	Lyme Disease X Anaplasmosis	5 (2.8%)
Borrelia burgdorferi X Bab	Lyme Disease X Babesiosis	3 (1.7%)
Borrelia burgdorferi X Bm	Lyme Disease X Miyamotoi Disease	2 (1.1%)

In addition, within the framework of a passive tick surveillance program, CVMDL monitors the geographical origin of the ticks submitted for testing.

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CA	Walnut Creek		2	100	50	0	50
CA	Woodside		1	100	0	0	0
CT	Salem		1	100	0	0	0
CT	Amston	Chatham	1	100	0	100	0
CT	Andover	Eastern Highlands	3	67	33	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	Ashford	Northeast District	5	60	0	0	0
CT	Avon	Farmington Valley	2	0	0	0	0
CT	Bantam	Torrington Area	2	50	0	0	0
CT	Berlin	Central Connecticut	1	0	0	0	0
CT	Bethany	Quinnipiack Valley	2	50	0	0	0
CT	Bolton	Eastern Highlands	3	67	0	0	0
CT	Bridgeport		1	0	0	0	0
CT	Canterbury	Northeast District	1	100	0	0	0
CT	Canton	Farmington Valley	1	0	0	0	0
CT	Chester	Connecticut River Area	1	0	0	0	0
CT	Colchester	Chatham	1	100	0	0	0
CT	Columbia	Eastern Highlands	3	33	0	0	0
CT	Coventry	Eastern Highlands	4	0	25	0	0
CT	Danbury		1	100	100	0	0
CT	Danielson	Northeast District	1	0	0	0	0
CT	Durham		2	50	0	0	0
CT	East Haddam	Chatham	1	100	0	0	0
CT	East Lyme	Ledge Light	3	0	33	0	0
CT	Easton	Aspetuck	2	0	0	0	0
CT	Fairfield		7	29	0	0	0
CT	Glastonbury		2	50	0	0	0
CT	Hamden	Quinnipiack Valley	1	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	Hampton	Northeast District	2	0	0	0	0
CT	Hartford		1	0	0	0	0
CT	Lebanon	Uncas	1	0	0	0	0
CT	Manchester		1	100	0	0	0
CT	Mansfield	Eastern Highlands	1	100	0	100	0
CT	Mansfield Center	Eastern Highlands	4	75	0	0	0
CT	Moodus	Chatham	1	0	0	0	0
CT	Naugatuck	Naugatuck Valley	1	0	0	0	0
CT	New Fairfield		1	0	0	0	0
CT	Norwalk		1	0	0	0	0
CT	Old Lyme	Ledge Light	1	100	0	0	0
CT	Pomfret Center	Northeast District	1	0	100	0	0
CT	Ridgefield		1	100	0	0	0
CT	Shelton	Naugatuck Valley	1	0	0	0	0
CT	Simsbury	Farmington Valley	2	100	0	0	0
CT	South Windsor		1	100	0	0	0
CT	Stafford Springs	North Central District	3	33	0	0	0
CT	Stamford		2	50	0	0	0
CT	Storrs	Eastern Highlands	10	40	0	0	0
CT	Tolland	Eastern Highlands	2	100	0	0	0
CT	Vernon	North Central District	3	0	0	0	0
CT	Wallingford		2	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	West Hartford	West Hartford-Bloomfield	2	0	0	0	0
CT	West Haven		1	0	0	0	0
CT	West Simsbury	Farmington Valley	1	0	100	0	0
CT	Weston	Aspetuck	2	50	0	0	0
CT	Willimantic	North Central District	2	50	0	0	0
CT	Willington	Eastern Highlands	1	0	0	0	0
CT	Windham	North Central District	1	0	0	0	0
CT	Woodstock	Northeast District	1	0	0	0	0
IN	Hagerstown		1	100	0	0	0
IN	New Carlisle		2	50	0	0	0
MA	Athol		1	0	0	0	0
MA	Brewster		1	0	0	0	0
MA	Cambridge		3	0	0	0	0
MA	Charlton		2	100	0	0	0
MA	Cotuit		1	0	0	0	0
MA	East Longmeadow		1	100	100	0	0
MA	Easthampton		1	0	0	0	0
MA	Lexington		1	0	0	0	0
MA	Littleton		1	0	0	0	0
MA	Millis		1	0	0	0	0
MA	North Hatfield		1	0	0	0	0
MA	Otis		1	0	0	0	0
MA	Pelham		2	0	0	0	0
MA	Petersham		2	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
MA	Seekonk		1	0	0	0	0
MA	Shutesbury		1	0	0	0	0
MA	South Chatham		1	0	0	0	0
MA	Westport		2	50	0	0	0
MA	Williamstown		1	100	0	0	0
MA	Winchendon		1	0	0	0	0
MA	Yarmouthport		1	100	0	0	100
MD	Annapolis		1	0	0	0	0
MD	York		1	0	0	0	0
ME	Kittery		1	100	0	0	0
ME	West Baldwin		1	100	0	0	0
NH	Brookline		1	0	0	0	0
NH	Gilmanton IW		1	0	0	0	0
NH	Hudson		2	50	0	0	0
NJ	Colts Neck		1	0	0	0	0
NJ	West Orange		1	0	0	0	0
NY	Brooklyn		2	100	0	0	0
NY	Chestnut Ridge		1	0	0	0	0
NY	Chittenango		1	0	0	0	0
NY	Elmira		1	0	0	0	0
NY	Jefferson		1	100	0	0	0
NY	Kingston		1	0	100	0	0
NY	Milton		1	100	0	0	0
NY	Northport		2	0	0	0	0
NY	Orchard Park		2	0	0	0	0
NY	Pittsford		2	50	0	0	0
NY	Rhinebeck		1	0	0	0	0
NY	Salt Point		2	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
NY	Warwick		1	100	0	100	0
Ontario	Burlington		1	0	0	0	0
Ontario	Roseneath		1	0	0	0	0
PA	Riegelsville		1	0	0	0	0
PA	Saylorsburg		1	0	100	0	0
RI	Chepachet		1	100	0	0	0
RI	Cumberland		1	0	0	0	0
RI	South Kingston		1	100	0	0	0
VT	Newfane		1	100	0	0	0
VT	Putney		1	100	100	0	0
WI	Burlington		1	0	0	0	0
WI	Fond Du Lac		1	0	0	0	0