

Summary of Tick Testing 2021

A total of 453 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, 322 (71.1 %) were identified as *Ixodes scapularis* (blacklegged or deer tick), 90 (19.9%) as *Dermacentor variabilis* (American dog tick), 40 (8.8%) as *Amblyomma americanum* (lone star tick), and 1 (0.2%) as other tick species.

Scientific Name	Common Name	Number of ticks (%)
<i>Ixodes scapularis</i>	Blacklegged or Deer tick	322 (71.1%)
<i>Dermacentor variabilis</i>	Dog tick	90 (19.9%)
<i>Amblyomma americanum</i>	Lonestar tick	40 (8.8%)
<i>Amblyomma maculatum</i>	Gulf Coast tick	1 (0.2%)

A total of 322* 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 322 ticks screened, 27.3% tested positive for *B. burgdorferi*, 8.1% for *A. phagocytophilum*, 1.6% tested positive for *B. miyamotoi*, and 0.9% for *B. microti*. A total of 14 ticks were simultaneously co-infected with two or more pathogens as depicted in the table below.

Pathogen detected	Disease caused	Ticks infected (%)
<i>Borrelia burgdorferi</i> X <i>Anaplasma phagocytophilum</i>	Lyme Disease X Anaplasmosis	13 (4.04%)
<i>Borrelia burgdorferi</i> X <i>Borrelia miyamotoi</i>	Lyme Disease X B. Miyamotoi Disease	1 (0.31%)

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	Oakland		1	0	0	0	0
CT	Amston	Chatham	2	50	0	0	0
CT	Andover	Eastern Highlands	9	22	0	0	0
CT	Ashford	Northeast District	9	11	22	0	0
CT	Avon	Farmington Valley	2	50	0	0	0
CT	Bantam	Torrington Area	1	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	Bethel		1	0	0	0	0
CT	Bethlehem	Torrington Area	2	50	0	0	0
CT	Bloomfield	West Hartford-Bloomfield	1	100	0	0	0
CT	Bolton	Eastern Highlands	1	100	0	0	0
CT	Branford	East Shore	1	0	0	0	0
CT	Bridgeport		1	0	0	0	0
CT	Brooklyn	Northeast District	1	0	0	0	0
CT	Burlington	Bristol-Burlington	1	0	0	0	0
CT	Canterbury	Northeast District	1	0	0	0	0
CT	Canton	Farmington Valley	2	50	0	0	0
CT	Cheshire	Chesprocott	1	0	0	0	0
CT	Colchester	Chatham	4	0	0	0	0
CT	Columbia	Eastern Highlands	3	0	0	0	0
CT	Cornwall	Torrington Area	1	0	0	0	0
CT	Coventry	Eastern Highlands	5	0	0	0	0
CT	Darien		1	0	0	0	0
CT	East Granby	Farmington Valley	1	0	0	0	0
CT	East Windsor	North Central District	1	100	0	0	0
CT	Eastford	Northeast District	2	50	0	0	0
CT	Easton	Aspetuck	4	25	25	0	0
CT	Ellington	North Central District	2	100	0	0	0
CT	Fairfield		11	27	0	0	0
CT	Farmington	Farmington Valley	1	100	0	0	0
CT	Glastonbury		4	25	0	0	0
CT	Greenwich		1	0	0	0	0
CT	Groton	Ledge Light	2	50	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	Guilford		1	0	0	0	0
CT	Hampton	Northeast District	1	0	0	0	0
CT	Hebron	Chatham	4	25	0	0	25
CT	Killingworth	Connecticut River Area	1	0	0	0	0
CT	Lebanon	Uncas	2	50	0	0	0
CT	Ledyard	Ledge Light	1	0	0	0	0
CT	Mansfield	Eastern Highlands	2	0	0	0	0
CT	Mansfield Center		3	0	0	0	0
CT	Middletown		1	100	0	0	0
CT	New Fairfield		1	100	0	0	0
CT	Newtown	Newtown	1	100	0	0	0
CT	Niantic		1	100	0	0	0
CT	North Haven	Quinnipiack Valley	1	0	0	0	0
CT	North Stonington	Ledge Light	3	33	33	0	0
CT	Norwalk		2	0	0	0	0
CT	Oakdale	Uncas	1	0	0	0	0
CT	Old Lyme	Ledge Light	1	100	0	0	0
CT	Pomfret Center		4	50	0	0	0
CT	Redding		3	33	33	0	0
CT	Rockfall	Plainville-Southington Regional	1	100	100	0	0
CT	Salem	Uncas	1	100	0	0	0
CT	Scotland	Eastern Highlands	2	50	0	50	0
CT	Seymour	Naugatuck Valley	1	0	0	0	0
CT	Shelton	Naugatuck Valley	2	50	50	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
CT	Simsbury	Farmington Valley	2	100	0	0	0
CT	South Windsor		1	0	0	0	0
CT	Southbury	Housatonic Valley	1	100	0	0	0
CT	Southington	Plainville-Southington Regional	1	0	0	0	0
CT	Southport		3	0	0	0	0
CT	Stafford Springs	Stafford	2	50	0	0	0
CT	Stamford		2	100	0	0	0
CT	Storrs	Eastern Highlands	19	5	5	0	0
CT	Tolland	Eastern Highlands	7	29	0	0	0
CT	Trumbull		2	50	0	0	0
CT	Vernon	North Central District	1	0	0	0	0
CT	Wallingford		3	33	0	0	0
CT	Watertown	Torrington Area	1	0	0	0	0
CT	West Hartford	West Hartford-Bloomfield	2	0	0	0	0
CT	West Simsbury	Farmington Valley	2	0	0	0	0
CT	Weston	Aspetuck	4	25	0	0	0
CT	Westport	Aspetuck	4	25	25	0	0
CT	Willimantic	North Central District	13	8	8	0	0
CT	Willington	Eastern Highlands	7	57	14	0	0
CT	Wilton		1	0	0	0	0
CT	Windham	North Central District	1	0	0	0	0
CT	Winsted	Torrington Area	1	0	0	0	0
CT	Woodstock	Northeast District	2	50	50	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
DC	Washington		2	50	50	0	0
IL	Elmwood Park		1	0	0	0	0
MA	Amherst		2	100	0	0	0
MA	Arlington		1	100	100	0	0
MA	Beverly		1	0	0	0	0
MA	Boston		1	0	0	0	0
MA	Boxford		1	100	0	0	0
MA	Brighton		1	0	0	0	0
MA	Centerville		1	100	0	0	0
MA	Charlton		1	0	0	0	0
MA	Dalton		2	50	0	0	0
MA	East Longmeadow		2	0	0	0	0
MA	Eastham		1	100	0	0	0
MA	Falmouth		2	100	0	0	0
MA	Hadley		1	100	0	0	0
MA	Halifax		1	0	0	0	0
MA	Haverhill		1	0	0	0	0
MA	Holbrook		1	0	0	0	0
MA	Holden		2	100	0	0	0
MA	Holyoke		1	0	0	0	0
MA	Lexington		1	0	0	0	0
MA	Longmeadow		1	0	0	0	0
MA	Marlborough		1	0	100	0	0
MA	Millbury		1	100	0	0	0
MA	Milton		1	100	0	0	0
MA	Monson		1	100	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
MA	Monument Beach		1	0	0	0	0
MA	Natick		1	0	0	0	0
MA	Needham		1	0	0	0	0
MA	Northampton		1	0	0	100	0
MA	Norton		1	0	0	0	0
MA	Oakham		1	0	0	0	0
MA	Plymouth		1	100	0	0	0
MA	Shutesbury		2	50	50	0	0
MA	South Grafton		1	0	0	0	0
MA	Upton		1	0	0	0	0
MA	West Barnstable		1	0	0	0	100
MA	Westport		2	50	50	0	0
MA	Wilbraham		1	0	0	0	0
MA	Yarmouth Port		4	0	25	0	25
MD	Bethesda		1	0	0	0	0
MD	Towson		2	0	0	0	0
ME	Windsor		1	0	0	0	0
NC	Weaverville		1	0	0	0	0
NH	Andover		1	0	0	0	0
NH	Gilmanton IW		1	100	100	0	0
NH	Hollis		1	0	100	0	0
NH	Lee		2	50	50	0	0
NH	Pelham		1	0	0	0	0
NH	Rochester		1	100	0	0	0
NJ	Long Valley		2	50	0	50	0
NJ	Ringoes		1	100	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
NY	Bovina Center		1	0	0	0	0
NY	Bronxville		1	0	0	0	0
NY	Brooklyn		3	0	0	0	0
NY	Chestnut Ridge		1	0	0	0	0
NY	Clinton Corners		1	100	0	0	0
NY	Corning		1	0	0	0	0
NY	Garrison		1	0	0	0	0
NY	Greenwood Lake		1	0	0	0	0
NY	Liverpool		1	0	0	0	0
NY	Mahopac		1	100	0	0	0
NY	New Paltz		1	0	0	0	0
NY	New Rochelle		1	100	0	0	0
NY	New York		2	0	50	0	0
NY	Orchard Park		2	0	0	0	0
NY	Pawling		1	0	0	0	0
NY	Pittsford		2	0	0	0	0
NY	Rexford		1	0	0	0	0
NY	Stony Brook		1	0	0	0	100
NY	Tuckahoe		1	0	0	0	0
NY	Wallkill		1	0	0	0	0
NY	White Plains		1	0	0	0	0
OH	Yellow Springs		1	0	0	0	0
OR	Portland		1	0	0	0	100
PA	Manheim		1	0	0	0	0
RI	Barrington		1	0	0	0	0
RI	Foster		1	0	0	0	0

State	Town	Health District	Tested	Pos to Bb (%)	Pos to Ap (%)	Pos to Bab (%)	Pos to Bm (%)
RI	North Kingstown		1	0	0	0	0
RI	Providence		2	100	0	0	0
RI	South Kingston		1	100	100	0	0
RI	Warwick		5	40	0	0	0
RI	West Kingston		1	100	0	0	0
VA	Broadlands		1	0	0	0	0
VT	Mount Holly		1	0	0	0	0
VT	N/A		1	0	0	0	0
VT	North Chittenden		1	0	0	0	0
VT	Putney		3	33	33	0	0
VT	Randolph		1	0	0	0	0
VT	Stowe		1	0	0	0	0
VT	Waterbury Center		1	0	100	0	0
WA	Oak Harbor		1	0	0	0	0
WV	Elkins		1	0	100	0	0