## Summary of Tick Testing 2023

A total of 395 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, 257 (65.0 %) were identified as Ixodes scapularis (blacklegged or deer tick), 92 (23.3%) as Dermacentor variabilis (American dog tick), 40 (10.1%) as Amblyomma americanum (lone star tick), and 6 (1.5%) as other tick species.

| Scientific Name | Common Name | Number of ticks (%) |
|---|---|---|
| Ixodes scapularis | Blacklegged or Deer tick | 257 (65.0%) |
| Dermacentor variabilis | Dog tick | 92 (23.3%) |
| Amblyomma americanum | Lonestar tick | 40 (10.1%) |
| Amblyomma maculatum | Long-horned tick | 1 (0.25%) |
| Rhipicephalus sanguineus | Brown Dog tick | 3 (0.8%) |
| Ixodes cookei | Woodchuck | 1 (0.25%) |
| Amblyomma species | N/A | 1 (0.25%) |

A total of 257* 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 257 ticks screened, 22.2% tested positive for B. burgdorferi, 7.8% for A. phagocytophilum, 1.2% tested positive for B. miyamotoi, and 1.6% for B. microti. A total of 8 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 A. phagocytophilum | Lyme Disease X Anaplasmosis | 4 (1.6%) |
| Borrelia burgdorferi X B. microti | Lyme Disease X Babesiosis | 4 (1.6%) |

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 | Auburn | | 1 | 0 | 0 | 0 | 0 |
| CT | Amston | Chatham | 1 | 0 | 0 | 0 | 0 |
| CT | Andover | Eastern Highlands | 4 | 25 | 0 | 0 | 0 |
| CT | Ashford | Northeast District | 4 | 25 | 0 | 0 | 0 |
| CT | Avon | Farmington Valley | 1 | 0 | 0 | 0 | 0 |
| CT | Bantam | Torrington Area | 2 | 50 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|-------|------|-----------------|--------|---------------|---------------|----------------|---------------|
| CT | Berlin | Central Connecticut | 1 | 0 | 0 | 0 | 0 |
| CT | Bethany | Quinnipiack Valley | 1 | 0 | 0 | 0 | 100 |
| CT | Bolton | Eastern Highlands | 2 | 0 | 0 | 0 | 0 |
| CT | Bristol | Bristol-Burlington | 1 | 0 | 0 | 0 | 0 |
| CT | Burlington | Bristol-Burlington | 1 | 0 | 0 | 0 | 0 |
| CT | Canterbury | Northeast District | 1 | 0 | 0 | 0 | 0 |
| CT | Cheshire | Chesprocott | 1 | 100 | 100 | 0 | 0 |
| CT | Colchester | Chatham | 3 | 67 | 0 | 0 | 0 |
| CT | Collinsville | Farmington Valley | 1 | 100 | 0 | 0 | 0 |
| CT | Columbia | Eastern Highlands | 4 | 0 | 0 | 0 | 0 |
| CT | Coventry | Eastern Highlands | 2 | 50 | 0 | 0 | 0 |
| CT | Cromwell | | 1 | 0 | 0 | 0 | 0 |
| CT | Danbury | | 1 | 0 | 0 | 0 | 0 |
| CT | East Granby | Farmington Valley | 1 | 100 | 0 | 0 | 0 |
| CT | East Haddam | Chatham | 1 | 0 | 0 | 0 | 0 |
| CT | Eastford | Northeast District | 1 | 0 | 0 | 0 | 0 |
| CT | Easton | Aspetuck | 3 | 67 | 0 | 0 | 0 |
| CT | Ellington | North Central District | 1 | 0 | 100 | 0 | 0 |
| CT | Enfield | North Central District | 3 | 67 | 0 | 33 | 0 |
| CT | Essex | | 1 | 0 | 0 | 0 | 0 |
| CT | Fairfield | | 12 | 8 | 17 | 0 | 0 |
| CT | Farmington | Farmington Valley | 1 | 100 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|---|---|---|---|---|---|---|---|
| CT | Granby | Farmington Valley | 3 | 67 | 33 | 0 | 0 |
| CT | Greenwich | | 1 | 0 | 0 | 0 | 0 |
| CT | Hamden | Quinnipiack Valley | 1 | 0 | 0 | 0 | 0 |
| CT | Hartford | | 2 | 0 | 0 | 0 | 0 |
| CT | Hebron | Chatham | 2 | 0 | 50 | 0 | 0 |
| CT | Ivoryton | Essex | 2 | 0 | 0 | 0 | 0 |
| CT | Kensington | Central Connecticut | 1 | 0 | 0 | 0 | 0 |
| CT | Killingworth | Connecticut River Area | 4 | 25 | 25 | 0 | 0 |
| CT | Lakeside | Torrington Area | 2 | 0 | 0 | 0 | 0 |
| CT | Lebanon | Uncas | 1 | 0 | 0 | 0 | 0 |
| CT | Lisbon | Uncas | 1 | 0 | 0 | 0 | 0 |
| CT | Litchfield | Torrington Area | 1 | 0 | 0 | 0 | 0 |
| CT | Madison | | 1 | 0 | 0 | 0 | 0 |
| CT | Mansfield | Eastern Highlands | 3 | 0 | 0 | 0 | 0 |
| CT | Marlborough | Chatham | 1 | 0 | 0 | 0 | 0 |
| CT | Meriden | | 1 | 100 | 100 | 0 | 0 |
| CT | Monroe | | 2 | 0 | 0 | 0 | 0 |
| CT | Naugatuck | Naugatuck Valley | 1 | 0 | 0 | 0 | 0 |
| CT | Newtown | Newtown | 1 | 0 | 0 | 0 | 0 |
| CT | North Stonington | Ledge Light | 1 | 0 | 0 | 0 | 0 |
| CT | North Windham | North Central District | 1 | 100 | 0 | 0 | 0 |
| CT | Norwalk | | 1 | 0 | 0 | 0 | 0 |
| CT | Oakdale | Uncas | 1 | 0 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|---|---|---|---|---|---|---|---|
| CT | Old Saybrook | Connecticut River Area | 3 | 33 | 0 | 33 | 0 |
| CT | Orchard Park | | 1 | 0 | 0 | 0 | 0 |
| CT | Preston | Uncas | 1 | 100 | 0 | 0 | 0 |
| CT | Redding | | 3 | 0 | 0 | 0 | 0 |
| CT | Ridgefield | | 1 | 100 | 0 | 0 | 0 |
| CT | Southport | | 2 | 0 | 0 | 0 | 0 |
| CT | Stafford Springs | North Central District | 5 | 20 | 0 | 0 | 0 |
| CT | Stamford | | 1 | 0 | 0 | 0 | 0 |
| CT | Storrs | Eastern Highlands | 9 | 44 | 0 | 22 | 0 |
| CT | Tolland | Eastern Highlands | 4 | 50 | 0 | 0 | 0 |
| CT | Trumbull | | 1 | 0 | 0 | 0 | 0 |
| CT | Vernon | North Central District | 1 | 0 | 0 | 0 | 0 |
| CT | Voluntown | Northeast District | 1 | 0 | 0 | 0 | 0 |
| CT | Wallingford | | 1 | 100 | 0 | 0 | 0 |
| CT | Waterbury | | 1 | 0 | 0 | 0 | 0 |
| CT | West Hartford | West Hartford-Bloomfield | 5 | 0 | 20 | 0 | 0 |
| CT | West Simsbury | Farmington Valley | 1 | 0 | 0 | 0 | 0 |
| CT | Weston | Aspetuck | 2 | 50 | 0 | 0 | 0 |
| CT | Westport | Aspetuck | 1 | 0 | 0 | 0 | 100 |
| CT | Willington | Eastern Highlands | 4 | 25 | 0 | 0 | 0 |
| CT | Wilton | | 9 | 11 | 0 | 0 | 0 |
| CT | Woodstock | Northeast District | 2 | 0 | 0 | 0 | 0 |
| DE | New Castle | | 1 | 0 | 0 | 0 | 0 |
| FL | Coral Gables | | 1 | 0 | 100 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|---|---|---|---|---|---|---|---|
| IN | Hagerstown | | 1 | 0 | 0 | 0 | 0 |
| MA | Ashburnham | | 1 | 0 | 0 | 0 | 0 |
| MA | Ayer | | 1 | 0 | 0 | 0 | 0 |
| MA | Belchertown | | 1 | 0 | 0 | 0 | 0 |
| MA | Bridgewater | | 1 | 0 | 0 | 0 | 0 |
| MA | Fairhaven | | 1 | 0 | 0 | 0 | 0 |
| MA | Franklin | | 1 | 100 | 0 | 0 | 0 |
| MA | Gloucester | | 1 | 0 | 0 | 0 | 0 |
| MA | Granville | | 1 | 0 | 0 | 0 | 0 |
| MA | Greenfield | | 1 | 0 | 0 | 0 | 0 |
| MA | Halifax | | 1 | 100 | 0 | 0 | 0 |
| MA | Lakeville | | 1 | 0 | 0 | 0 | 0 |
| MA | Leeds | | 2 | 50 | 50 | 0 | 0 |
| MA | Lexington | | 1 | 0 | 0 | 0 | 0 |
| MA | Longmeadow | | 1 | 100 | 0 | 0 | 0 |
| MA | Lynnfield | | 1 | 0 | 0 | 0 | 0 |
| MA | Melrose | | 1 | 0 | 0 | 0 | 0 |
| MA | Methuen | | 1 | 0 | 0 | 0 | 0 |
| MA | Middleton | | 1 | 0 | 0 | 0 | 0 |
| MA | Millbury | | 1 | 0 | 0 | 0 | 100 |
| MA | North Hatfield | | 1 | 0 | 0 | 0 | 0 |
| MA | Norton | | 3 | 33 | 0 | 0 | 0 |
| MA | Rehoboth | | 2 | 0 | 0 | 0 | 0 |
| MA | Shelburne Falls | | 1 | 0 | 0 | 0 | 0 |
| MA | Southampton | | 1 | 0 | 100 | 0 | 0 |
| MA | Springfield | | 1 | 0 | 0 | 0 | 0 |
| MA | Sutton | | 1 | 100 | 0 | 0 | 0 |
| MA | Webster | | 1 | 0 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|---|---|---|---|---|---|---|---|
| MA | West Springfield | | 1 | 0 | 0 | 0 | 0 |
| MA | Westport | | 2 | 0 | 0 | 0 | 0 |
| MD | Towson | | 2 | 50 | 0 | 0 | 0 |
| ME | Gray | | 1 | 0 | 100 | 0 | 0 |
| MI | Mattawan | | 1 | 0 | 0 | 0 | 0 |
| MI | Paw Paw | | 1 | 100 | 0 | 0 | 0 |
| MN | Heron Lake | | 1 | 100 | 0 | 0 | 0 |
| NH | Alstead | | 1 | 0 | 0 | 0 | 0 |
| NH | Gilmanton | | 1 | 100 | 0 | 0 | 0 |
| NH | Hollis | | 2 | 50 | 0 | 0 | 0 |
| NH | Keene | | 2 | 50 | 0 | 0 | 0 |
| NH | Mirror Lake | | 1 | 100 | 0 | 0 | 0 |
| NJ | Lincroft | | 1 | 0 | 0 | 0 | 0 |
| NJ | Somerville | | 1 | 0 | 0 | 0 | 0 |
| NJ | Upper Saddle River | | 1 | 0 | 100 | 0 | 0 |
| NJ | Weehawken | | 1 | 100 | 0 | 0 | 0 |
| NY | Brooklyn | | 1 | 0 | 100 | 0 | 0 |
| NY | Buffalo | | 1 | 0 | 0 | 0 | 0 |
| NY | Chappaqua | | 1 | 0 | 0 | 0 | 0 |
| NY | Cornwallville | | 1 | 100 | 0 | 0 | 0 |
| NY | Cortland | | 1 | 0 | 0 | 0 | 0 |
| NY | Garrison | | 3 | 33 | 0 | 0 | 0 |
| NY | Highland | | 1 | 0 | 0 | 0 | 0 |
| NY | Hillsdale | | 4 | 25 | 0 | 0 | 0 |
| NY | Honeoye Falls | | 1 | 0 | 0 | 0 | 0 |
| NY | Ithaca | | 1 | 0 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|---|---|---|---|---|---|---|---|
| NY | Massapequa | | 1 | 0 | 0 | 0 | 0 |
| NY | New Paltz | | 3 | 33 | 0 | 0 | 0 |
| NY | New York | | 1 | 0 | 0 | 0 | 0 |
| NY | New York City | | 2 | 0 | 0 | 0 | 0 |
| NY | Owego | | 1 | 100 | 0 | 0 | 0 |
| NY | Pittsford | | 2 | 0 | 0 | 0 | 0 |
| NY | Rensselaer | | 1 | 0 | 100 | 0 | 0 |
| NY | Rhinebeck | | 1 | 0 | 0 | 0 | 0 |
| NY | Richmond Hill | | 1 | 0 | 0 | 0 | 0 |
| NY | Rockville Center | | 1 | 100 | 0 | 0 | 0 |
| NY | Setauket | | 1 | 0 | 0 | 0 | 0 |
| NY | South Salem | | 1 | 0 | 0 | 0 | 0 |
| NY | Waterville | | 1 | 0 | 0 | 0 | 0 |
| NY | Woodstock | | 2 | 0 | 0 | 0 | 0 |
| OH | Novelty | | 1 | 0 | 0 | 0 | 0 |
| PA | Beaver | | 1 | 0 | 100 | 0 | 0 |
| PA | Hermitage | | 1 | 0 | 0 | 0 | 0 |
| PA | Robesonia | | 1 | 100 | 0 | 0 | 0 |
| RI | East Greenwich | | 1 | 0 | 0 | 0 | 0 |
| RI | Wakefield | | 1 | 100 | 100 | 0 | 0 |
| RI | Warwick | | 4 | 0 | 25 | 0 | 0 |
| TN | Bristol | | 1 | 0 | 100 | 0 | 0 |
| VT | Guilford | | 1 | 0 | 0 | 0 | 0 |
| VT | Montpelier | | 1 | 100 | 0 | 0 | 0 |
| VT | Salisbury | | 1 | 0 | 0 | 0 | 0 |
| WA | Port Angeles | | 1 | 0 | 0 | 0 | 0 |
| WA | Stevenson | | 1 | 0 | 0 | 0 | 0 |

| State | Town | Health District | Tested | Pos to Bb (%) | Pos to Ap (%) | Pos to Bab (%) | Pos to Bm (%) |
|-------|------|-----------------|--------|---------------|---------------|----------------|---------------|
| WI | Fond du Lac | | 1 | 0 | 0 | 0 | 0 |
| WI | Watertown | | 1 | 0 | 0 | 0 | 0 |