

## Summary of Tick Testing Results for 2018

A total of 4,362 ticks feeding on humans were submitted by residents, health departments, and physician’s offices for identification in 2018. Of these, 3,273\* were tested for evidence of infection with *Borrelia burgdorferi*, the causative organism for Lyme disease, and 1,253 (38.3%) were found positive. The table below depicts the scientific and common names of the tick species and number of specimens.

Name of Species	Common Name	Total
<i>Ixodes scapularis</i>	Blacklegged (“deer”) Tick	3,491
<i>Dermacentor variabilis</i>	American Dog Tick	725
<i>Amblyomma americanum</i>	Lone Star Tick	138
<i>Ixodes cookei</i>	(normally on woodchucks)	4
<i>Amblyomma maculatum</i>	Gulf Coast Tick	1
<i>Dermacentor andersoni</i>	Rocky Mountain Wood Tick	1
<i>Haemaphysalis longicornis</i>	Asian Long-horned Tick	1
<i>Rhipicephalus sanguineus</i>	Brown Dog Tick	1

A majority of the ticks received by the CAES Tick Testing Laboratory (TTL) were blacklegged or “deer” ticks. The table below shows the total number of identified, tested, total positive, and percent positive ticks for 2014-2018\*.

Year	Total Identified	Total Tested	Total Positive	Percent Positive
<b>2014</b>	2,434	1,313	360	27
<b>2015</b>	3,084	2,450	773	32
<b>2016</b>	2,817	2,177	628	29
<b>2017</b>	4,458	3,989	1,277	32
<b>2018</b>	3,491	3,273	1,253	38

\*Note: As of January 1, 2006, unengorged ticks are no longer tested for *Borrelia burgdorferi*. Research has shown that unengorged ticks (those that have not ingested blood) are unlikely to transmit the disease organism.

Testing for additional tick-associated pathogens was also established at the Tick Testing Laboratory in 2015 for the first time, and ticks that were tested for the Lyme disease agent were also examined for evidence of infection with *Babesia microti* and *Anaplasma phagocytophilum*, the causative agents for babesiosis and anaplasmosis, respectively. The table below shows the percentage of blacklegged ticks infected with each pathogen, as well as the percentage of ticks co-infected with two or three pathogens.

<b>Pathogen</b>	<b>Percentage of Ticks Infected</b>
<i>Borrelia burgdorferi</i>	38.3
<i>Anaplasma phagocytophilum</i>	12.0
<i>Babesia microti</i>	9.5
<i>Borrelia</i> + <i>Anaplasma</i>	6.6
<i>Borrelia</i> + <i>Babesia</i>	5.0
<i>Babesia</i> + <i>Anaplasma</i>	1.4
<i>Borrelia</i> + <i>Babesia</i> + <i>Anaplasma</i>	1.1

The number of blacklegged ticks submitted from each town and the number infected are summarized for the year 2018. If the town is served by a health district, its totals are included with the town listed in the second column. For example, Ansonia is served by the Naugatuck Valley Health District, which is located in Seymour. Any ticks that may have been received from Ansonia through the health district are included in the totals for Seymour. Any ticks received from individuals in Ansonia would be listed separately for Ansonia. Those totals reflect the data for all the towns served by the health district. For a directory of local health departments and districts, see the state website at <http://www.ct.gov/dph/localhealth>.

Town	Health District Town	Total Identified	Total Tested	Positive for <i>Borrelia</i> (%)	Positive for <i>Anaplasma</i> (%)	Positive for <i>Babesia</i> (%)
Andover	Mansfield	4	4	2 (50%)	0 (0%)	0 (0%)
Ansonia	Seymour	2	2	0 (0%)	0 (0%)	0 (0%)
Ashford	Mansfield	2	2	1 (50%)	0 (0%)	0 (0%)
Avon	Canton	12	12	4 (33%)	0 (0%)	2 (17%)
Barkhamsted	Canton	1	1	1 (100%)	0 (0%)	0 (0%)
Beacon Falls	Seymour	0	0			
Berlin	Wethersfield	4	4	1 (25%)	1 (25%)	0 (0%)
Bethany	North Haven	17	17	5 (29%)	0 (0%)	1 (6%)
Bethel		52	50	23 (46%)	11 (22%)	5 (10%)
Bethlehem	Torrington	5	5	1 (20%)	1 (20%)	0 (0%)
Bloomfield		20	16	6 (38%)	1 (6%)	2 (13%)
Bolton	Mansfield	0	0			
Bozrah	Norwich	0	0			
Branford		37	36	12 (33%)	3 (8%)	5 (14%)
Bridgeport		4	4	0 (0%)	1 (25%)	1 (25%)
Bridgewater	Newtown	2	2	1 (50%)	0 (0%)	0 (0%)
Bristol		11	11	3 (27%)	0 (0%)	3 (27%)
Brookfield		63	61	26 (43%)	10 (16%)	3 (5%)
Brooklyn		4	4	1 (25%)	0 (0%)	0 (0%)
Burlington	Bristol	8	7	3 (43%)	0 (0%)	2 (29%)
Canaan	Torrington	0	0			
Canterbury	Brooklyn	2	2	0 (0%)	1 (50%)	0 (0%)
Canton		23	21	9 (43%)	1 (5%)	2 (10%)
Chaplin	Mansfield	0	0			
Cheshire		63	57	24 (42%)	6 (11%)	7 (12%)
Chester		5	4	1 (25%)	0 (0%)	0 (0%)
Clinton	Old Saybrook	3	3	2 (67%)	0 (0%)	0 (0%)
Colchester	East Hampton	3	3	1 (33%)	0 (0%)	1 (33%)
Colebrook	Canton	3	3	2 (67%)	0 (0%)	0 (0%)
Columbia	Mansfield	1	1	0 (0%)	0 (0%)	1 (100%)
Cornwall	Torrington	3	3	3 (100%)	0 (0%)	0 (0%)
Coventry	Mansfield	5	5	4 (80%)	3 (60%)	0 (0%)
Cromwell		4	4	2 (50%)	0 (0%)	1 (25%)
Danbury		37	35	18 (51%)	2 (6%)	2 (6%)
Darien		66	58	16 (28%)	4 (7%)	3 (5%)
Deep River	Old Saybrook	3	2	0 (0%)	1 (50%)	0 (0%)

Town	Health District Town	Total Identified	Total Tested	Positive for Borrelia(%)	Positive for Anaplasma(%)	Positive for Babesia(%)
Derby	Seymour	4	4	4 (100%)	0 (0%)	0 (0%)
Durham		8	8	3 (38%)	0 (0%)	0 (0%)
East Granby	Canton	2	2	1 (50%)	1 (50%)	0 (0%)
East Haddam	East Hampton	5	5	3 (60%)	0 (0%)	1 (20%)
East Hampton		38	36	14 (39%)	6 (17%)	1 (3%)
East Hartford		1	0			
East Haven	Branford	6	6	1 (17%)	1 (17%)	0 (0%)
East Lyme	New London	5	5	2 (40%)	1 (20%)	0 (0%)
East Windsor	Enfield	3	3	1 (33%)	0 (0%)	0 (0%)
Eastford	Brooklyn	1	1	0 (0%)	0 (0%)	0 (0%)
Easton		38	33	11 (33%)	5 (15%)	6 (18%)
Ellington	Enfield	3	3	2 (67%)	1 (33%)	1 (33%)
Enfield		29	27	5 (19%)	2 (7%)	4 (15%)
Essex		6	5	1 (20%)	0 (0%)	1 (20%)
Fairfield		83	74	18 (24%)	8 (11%)	5 (7%)
Farmington	Canton	11	11	5 (45%)	1 (9%)	0 (0%)
Franklin		0	0			
Glastonbury		18	17	6 (35%)	1 (6%)	2 (12%)
Goshen	Torrington	2	2	2 (100%)	1 (50%)	0 (0%)
Granby	Canton	4	4	0 (0%)	1 (25%)	1 (25%)
Greenwich		6	6	3 (50%)	0 (0%)	1 (17%)
Griswold	Norwich	0	0			
Groton	New London	7	4	2 (50%)	2 (50%)	0 (0%)
Guilford		35	35	14 (40%)	2 (6%)	6 (17%)
Haddam	Old Saybrook	1	1	0 (0%)	0 (0%)	0 (0%)
Hamden	North Haven	45	43	13 (30%)	5 (12%)	4 (9%)
Hampton	Brooklyn	2	2	0 (0%)	0 (0%)	0 (0%)
Hartford		2	2	0 (0%)	0 (0%)	0 (0%)
Hartland	Canton	2	2	1 (50%)	0 (0%)	0 (0%)
Harwinton	Torrington	1	1	1 (100%)	0 (0%)	0 (0%)
Hebron	East Hampton	8	8	4 (50%)	0 (0%)	0 (0%)
Kent	Torrington	0	0			
Killingly	Brooklyn	1	1	0 (0%)	0 (0%)	0 (0%)
Killingworth		4	4	1 (25%)	0 (0%)	1 (25%)
Lebanon	Norwich	2	1	0 (0%)	0 (0%)	0 (0%)

Town	Health District Town	Total Identified	Total Tested	Positive for Borrelia(%)	Positive for Anaplasma(%)	Positive for Babesia(%)
Ledyard	New London	1	1	0 (0%)	0 (0%)	0 (0%)
Lisbon	Norwich	1	1	0 (0%)	0 (0%)	0 (0%)
Litchfield	Torrington	1	1	1 (100%)	0 (0%)	0 (0%)
Lyme		3	2	1 (50%)	0 (0%)	0 (0%)
Madison		12	11	3 (27%)	0 (0%)	1 (9%)
Manchester		13	13	3 (23%)	3 (23%)	0 (0%)
Mansfield		18	18	4 (22%)	1 (6%)	1 (6%)
Marlborough	East Hampton	0	0			
Meriden		19	17	8 (47%)	4 (24%)	1 (6%)
Middlebury	Torrington	5	5	1 (20%)	0 (0%)	2 (40%)
Middlefield		2	2	2 (100%)	0 (0%)	0 (0%)
Middletown		16	15	5 (33%)	2 (13%)	0 (0%)
Milford		59	54	16 (30%)	4 (7%)	5 (9%)
Monroe		39	36	15 (42%)	9 (25%)	3 (8%)
Montville	Norwich	6	6	1 (17%)	0 (0%)	0 (0%)
Morris	Torrington	2	2	2 (100%)	1 (50%)	2 (100%)
Naugatuck	Seymour	1	1	0 (0%)	0 (0%)	0 (0%)
New Britain		5	5	2 (40%)	1 (20%)	2 (40%)
New Canaan		124	121	54 (45%)	12 (10%)	13 (11%)
New Fairfield		24	23	11 (48%)	3 (13%)	4 (17%)
New Hartford	Canton	9	9	5 (56%)	0 (0%)	3 (33%)
New Haven		44	41	11 (27%)	3 (7%)	3 (7%)
New London		54	51	18 (35%)	5 (10%)	6 (12%)
New Milford		66	60	25 (42%)	10 (17%)	8 (13%)
Newington	Wethersfield	4	4	2 (50%)	1 (25%)	0 (0%)
Newtown		193	185	67 (36%)	20 (11%)	14 (8%)
Norfolk	Torrington	1	1	0 (0%)	1 (100%)	0 (0%)
North Branford	Branford	6	6	2 (33%)	1 (17%)	1 (17%)
North Canaan	Torrington	0	0			
North Haven		33	30	10 (33%)	2 (7%)	4 (13%)
North Stonington	New London	1	1	0 (0%)	0 (0%)	0 (0%)
Norwalk		150	144	55 (38%)	17 (12%)	19 (13%)
Norwich		24	22	6 (27%)	3 (14%)	2 (9%)
Old Lyme	New London	3	3	1 (33%)	1 (33%)	0 (0%)
Old Saybrook		28	27	14 (52%)	2 (7%)	1 (4%)
Orange		25	24	11 (46%)	3 (13%)	1 (4%)

<b>Town</b>	<b>Health District Town</b>	<b>Total Identified</b>	<b>Total Tested</b>	<b>Positive for Borrelia(%)</b>	<b>Positive for Anaplasma(%)</b>	<b>Positive for Babesia(%)</b>
Oxford	Southbury	1	1	0 (0%)	0 (0%)	0 (0%)
Plainfield	Brooklyn	1	1	0 (0%)	0 (0%)	1 (100%)
Plainville	Southington	6	6	3 (50%)	1 (17%)	0 (0%)
Plymouth	Torrington	1	1	1 (100%)	0 (0%)	0 (0%)
Pomfret	Brooklyn	4	4	1 (25%)	0 (0%)	0 (0%)
Portland	East Hampton	2	1	0 (0%)	0 (0%)	0 (0%)
Preston		3	3	0 (0%)	0 (0%)	0 (0%)
Prospect	Cheshire	4	3	2 (67%)	0 (0%)	0 (0%)
Putnam	Brooklyn	0	0			
Redding		140	130	57 (44%)	24 (18%)	11 (8%)
Ridgefield		256	242	95 (39%)	25 (10%)	24 (10%)
Rocky Hill	Wethersfield	20	20	8 (40%)	0 (0%)	4 (20%)
Roxbury	Newtown	2	2	1 (50%)	0 (0%)	0 (0%)
Salem	Norwich	2	2	1 (50%)	0 (0%)	0 (0%)
Salisbury	Torrington	2	2	0 (0%)	0 (0%)	0 (0%)
Scotland	Mansfield	0	0			
Seymour		78	70	26 (37%)	12 (17%)	1 (1%)
Sharon		5	5	4 (80%)	0 (0%)	0 (0%)
Shelton	Seymour	15	14	6 (43%)	1 (7%)	4 (29%)
Sherman		7	6	4 (67%)	0 (0%)	1 (17%)
Simsbury	Canton	13	11	5 (45%)	1 (9%)	1 (9%)
Somers		3	3	3 (100%)	0 (0%)	0 (0%)
South Windsor		14	12	4 (33%)	0 (0%)	3 (25%)
Southbury		131	125	56 (45%)	17 (14%)	11 (9%)
Southington		21	21	10 (48%)	2 (10%)	4 (19%)
Sprague	Norwich	0	0			
Stafford	Enfield	2	2	0 (0%)	1 (50%)	0 (0%)
Stamford		211	200	80 (40%)	27 (14%)	22 (11%)
Sterling	Brooklyn	1	1	1 (100%)	0 (0%)	0 (0%)
Stonington	New London	1	1	1 (100%)	1 (100%)	0 (0%)
Stratford		58	54	17 (31%)	8 (15%)	7 (13%)
Suffield	Enfield	1	1	0 (0%)	1 (100%)	0 (0%)
Thomaston	Torrington	0	0			
Thompson	Brooklyn	0	0			
Tolland	Mansfield	5	5	2 (40%)	0 (0%)	1 (20%)
Torrington		89	81	35 (43%)	12 (15%)	6 (7%)

Town	Health District Town	Total Identified	Total Tested	Positive for Borrelia(%)	Positive for Anaplasma(%)	Positive for Babesia(%)
Trumbull		148	134	41 (31%)	19 (14%)	11 (8%)
Union	Brooklyn	0	0			
Vernon	Enfield	1	0			
Voluntown	Norwich	1	1	0 (0%)	0 (0%)	0 (0%)
Wallingford		31	28	14 (50%)	4 (14%)	1 (4%)
Warren	Torrington	0	0			
Washington		2	2	0 (0%)	0 (0%)	0 (0%)
Waterbury		20	19	10 (53%)	4 (21%)	2 (11%)
Waterford	New London	4	3	1 (33%)	0 (0%)	0 (0%)
Watertown	Torrington	9	9	4 (44%)	1 (11%)	3 (33%)
West Hartford	Bloomfield	8	8	3 (38%)	1 (13%)	0 (0%)
West Haven		12	12	1 (8%)	0 (0%)	0 (0%)
Westbrook		2	2	1 (50%)	0 (0%)	0 (0%)
Weston	Westport	4	2	2 (100%)	1 (50%)	0 (0%)
Westport		76	74	26 (35%)	9 (12%)	7 (9%)
Wethersfield		5	3	1 (33%)	1 (33%)	0 (0%)
Willington	Mansfield	0	0			
Wilton		152	139	58 (42%)	14 (10%)	10 (7%)
Winchester	Torrington	1	1	1 (100%)	0 (0%)	0 (0%)
Windham	Enfield	4	4	1 (25%)	1 (25%)	0 (0%)
Windsor		14	13	5 (38%)	4 (31%)	2 (15%)
Windsor Locks	Enfield	0	0			
Wolcott	Cheshire	0	0			
Woodbridge	North Haven	34	33	11 (33%)	2 (6%)	3 (9%)
Woodbury	Southbury	8	8	2 (25%)	1 (13%)	0 (0%)
Woodstock	Brooklyn	5	5	0 (0%)	2 (40%)	0 (0%)