Summary of Tick Testing for 2021

A total of 5,685 ticks were submitted by residents, health departments, and physicians' offices to the Connecticut Agricultural Experiment Station-Tick Testing Laboratory (CAES-TTL) for identification in 2021. Of these, 4,365 (76.8%) were identified as *Ixodes scapularis* (blacklegged or deer tick), 1,092 (19.2%) as *Dermacentor variabilis* (American dog tick), 213 (3.7%) as *Amblyomma americanum* (lone star tick), and 15 (0.3%) as other tick species.

Scientific Name	Common Name	Number of Ticks
Ixodes scapularis	blacklegged or deer tick	4,365 (76.8%)
Dermacentor variabilis	American dog tick	1,092 (19.2%)
Amblyomma americanum	lone star tick	213 (3.7%)
Haemaphysalis longicornis	Asian longhorned tick	14 (0.2%)
Amblyomma sp.	a tick species of genus *Amblyomma*	1 (0.1%)

A total of 4,196* adult female and nymphal blacklegged ticks were tested for evidence of infection with *Borrelia burgdorferi*, the causative organism for Lyme disease. Testing for additional tick-borne pathogens was established at the CAES-TTL in 2015 in response to an increase in human disease cases throughout the state. Blacklegged ticks screened for *B. burgdorferi* were also examined for evidence of infection with *Anaplasma phagocytophilum* and *Babesia microti*, the causative agents of anaplasmosis and babesiosis, respectively. Of the 4,196 ticks screened, 1,335 tested positive for *B. burgdorferi*, 189 for *A. phagocytophilum*, and 409 for *B. microti*. A total of 391 ticks were simultaneously co-infected with two or more pathogens as depicted in the table below.

Pathogen	Disease	Ticks Infected
Borrelia burgdorferi	Lyme disease	1,335 (31.8%)
Anaplasma phagocytophilum	anaplasmosis	189 (4.5%)
Babesia microti	babesiosis	409 (9.7%)
Borrelia + Anaplasma	Lyme disease and anaplasmosis	95 (2.3%)
Borrelia + Babesia	Lyme disease and babesiosis	243 (5.8%)
Anaplasma + Babesia	anaplasmosis and babesiosis	30 (0.7%)
Borrelia + Anaplasma + Babesia	Lyme disease, anaplasmosis, and babesiosis	23 (0.5%)

* As of January 1, 2006, unengorged ticks are no longer tested for tick-borne pathogens. Research has shown that unengorged ticks (those that have not ingested blood) are unlikely to transmit disease-causing organisms.

In addition, within the framework of a passive tick surveillance program, the CAES-TTL continues to monitor the range expansion of native ticks and incursion of invasive ticks in Connecticut. On August 26, 2021, we discovered an established population of the Asian longhorned tick (*Haemaphysalis longicornis*) in New Haven County in addition to reported populations of this tick in Fairfield County in September 2020.

The number of blacklegged ticks submitted from each town and the number infected are summarized in the following table for the year 2021. 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 *Borrelia* (%)	Positive for *Anaplasma* (%)	Positive for *Babesia* (%)
Andover	Mansfield	17	16	7 (44%)	0 (0%)	2 (13%)
Ansonia	Seymour	5	4	2 (50%)	0 (0%)	0 (0%)
Ashford	Mansfield	1	1	0 (0%)	0 (0%)	0 (0%)
Avon	Canton	29	18	9 (50%)	0 (0%)	2 (11%)
Barkhamsted	Canton	9	4	2 (50%)	1 (25%)	1 (25%)
Beacon Falls	Seymour	6	5	0 (0%)	0 (0%)	0 (0%)
Berlin	Wethersfield	12	11	3 (27%)	0 (0%)	0 (0%)
Bethany	North Haven	45	36	17 (47%)	2 (6%)	2 (6%)
Bethel		65	51	26 (51%)	5 (10%)	2 (4%)
Bethlehem	Torrington	6	5	3 (60%)	2 (40%)	2 (40%)
Bloomfield		43	29	8 (28%)	1 (3%)	2 (7%)
Bolton	Mansfield	5	5	2 (40%)	0 (0%)	0 (0%)
Bozrah	Norwich	0	0			
Branford		101	70	17 (24%)	2 (3%)	2 (3%)
Bridgeport		19	12	3 (25%)	0 (0%)	4 (33%)
Bridgewater	Newtown	4	1	1 (100%)	0 (0%)	0 (0%)
Bristol		48	28	10 (36%)	0 (0%)	5 (18%)
Brookfield		77	54	15 (28%)	3 (6%)	3 (6%)
Brooklyn		5	5	1 (20%)	0 (0%)	1 (20%)
Burlington	Bristol	3	2	1 (50%)	1 (50%)	1 (50%)
Canaan	Torrington	1	1	0 (0%)	0 (0%)	0 (0%)
Canterbury	Brooklyn	3	3	1 (33%)	0 (0%)	0 (0%)
Canton		27	17	4 (24%)	1 (6%)	1 (6%)
Chaplin	Mansfield	0	0			
Cheshire		109	96	25 (26%)	7 (7%)	6 (6%)
Chester		7	7	2 (29%)	0 (0%)	1 (14%)
Clinton	Old Saybrook	7	7	1 (14%)	0 (0%)	1 (14%)
Colchester	East Hampton	11	9	2 (22%)	0 (0%)	0 (0%)
Colebrook	Canton	3	3	3 (100%)	0 (0%)	0 (0%)
Columbia	Mansfield	1	0			
Cornwall	Torrington	10	4	1 (25%)	0 (0%)	0 (0%)
Coventry	Mansfield	11	10	3 (30%)	1 (10%)	2 (20%)
Cromwell		13	7	1 (14%)	0 (0%)	1 (14%)
Danbury		73	50	14 (28%)	3 (6%)	4 (8%)
Darien		124	73	15 (21%)	1 (1%)	4 (5%)
Deep River	Old Saybrook	6	4	0 (0%)	0 (0%)	1 (25%)

Town	Health District Town	Total Identified	Total Tested	Positive for *Borrelia* (%)	Positive for *Anaplasma* (%)	Positive for *Babesia* (%)
Derby	Seymour	10	8	1 (13%)	0 (0%)	0 (0%)
Durham		18	13	5 (38%)	0 (0%)	1 (8%)
East Granby	Canton	8	5	1 (20%)	2 (40%)	1 (20%)
East Haddam	East Hampton	32	30	14 (47%)	0 (0%)	5 (17%)
East Hampton		52	38	14 (37%)	3 (8%)	4 (11%)
East Hartford		9	4	0 (0%)	0 (0%)	0 (0%)
East Haven	Branford	19	11	2 (18%)	1 (9%)	1 (9%)
East Lyme	New London	9	6	2 (33%)	0 (0%)	1 (17%)
East Windsor	Enfield	1	0			
Eastford	Brooklyn	4	3	2 (67%)	0 (0%)	2 (67%)
Easton		37	30	8 (27%)	0 (0%)	2 (7%)
Ellington	Enfield	7	4	0 (0%)	0 (0%)	1 (25%)
Enfield		27	19	4 (21%)	0 (0%)	2 (11%)
Essex		18	13	2 (15%)	0 (0%)	1 (8%)
Fairfield		140	104	26 (25%)	4 (4%)	13 (13%)
Farmington	Canton	33	25	10 (40%)	0 (0%)	2 (8%)
Franklin		5	4	1 (25%)	0 (0%)	1 (25%)
Glastonbury		44	27	9 (33%)	0 (0%)	3 (11%)
Goshen	Torrington	8	7	4 (57%)	1 (14%)	0 (0%)
Granby	Canton	32	21	2 (10%)	1 (5%)	0 (0%)
Greenwich		9	5	0 (0%)	0 (0%)	0 (0%)
Griswold	Norwich	3	3	1 (33%)	0 (0%)	0 (0%)
Groton	New London	14	9	3 (33%)	1 (11%)	0 (0%)
Guilford		66	47	10 (21%)	3 (6%)	4 (9%)
Haddam	Old Saybrook	13	13	4 (31%)	0 (0%)	2 (15%)
Hamden	North Haven	111	82	27 (33%)	0 (0%)	8 (10%)
Hampton	Brooklyn	2	2	0 (0%)	0 (0%)	0 (0%)
Hartford		1	1	0 (0%)	0 (0%)	0 (0%)
Hartland	Canton	1	0			
Harwinton	Torrington	3	3	2 (67%)	1 (33%)	1 (33%)
Hebron	East Hampton	8	5	0 (0%)	0 (0%)	0 (0%)
Kent	Torrington	6	6	5 (83%)	0 (0%)	0 (0%)
Killingly	Brooklyn	6	5	3 (60%)	2 (40%)	1 (20%)
Killingworth		15	13	7 (54%)	0 (0%)	1 (8%)
Lebanon	Norwich	9	8	3 (38%)	0 (0%)	0 (0%)
Ledyard	New London	8	5	2 (40%)	0 (0%)	1 (20%)

Town	Health District Town	Total Identified	Total Tested	Positive for *Borrelia* (%)	Positive for *Anaplasma* (%)	Positive for *Babesia* (%)
Lisbon	Norwich	2	2	1 (50%)	0 (0%)	0 (0%)
Litchfield	Torrington	4	2	1 (50%)	0 (0%)	0 (0%)
Lyme		1	0			
Madison		39	21	7 (33%)	0 (0%)	3 (14%)
Manchester		28	12	8 (67%)	3 (25%)	2 (17%)
Mansfield		56	49	19 (39%)	1 (2%)	3 (6%)
Marlborough	East Hampton	10	9	2 (22%)	0 (0%)	1 (11%)
Meriden		39	25	8 (32%)	0 (0%)	0 (0%)
Middlebury	Torrington	13	8	2 (25%)	0 (0%)	2 (25%)
Middlefield		8	5	3 (60%)	1 (20%)	0 (0%)
Middletown		37	27	6 (22%)	1 (4%)	4 (15%)
Milford		155	78	19 (24%)	4 (5%)	8 (10%)
Monroe		66	53	15 (28%)	4 (8%)	8 (15%)
Montville	Norwich	7	6	4 (67%)	0 (0%)	1 (17%)
Morris	Torrington	2	2	0 (0%)	0 (0%)	0 (0%)
Naugatuck	Seymour	10	5	0 (0%)	0 (0%)	0 (0%)
New Britain		12	6	2 (33%)	0 (0%)	0 (0%)
New Canaan		208	153	48 (31%)	7 (5%)	11 (7%)
New Fairfield		41	36	13 (36%)	2 (6%)	4 (11%)
New Hartford	Canton	15	13	3 (23%)	1 (8%)	1 (8%)
New Haven		85	62	18 (29%)	2 (3%)	5 (8%)
New London		113	91	25 (27%)	3 (3%)	14 (15%)
New Milford		79	53	22 (42%)	2 (4%)	8 (15%)
Newington	Wethersfield	2	1	0 (0%)	0 (0%)	0 (0%)
Newtown		272	210	87 (41%)	8 (4%)	33 (16%)
Norfolk	Torrington	1	0			
North Branford	Branford	18	16	6 (38%)	0 (0%)	1 (6%)
North Canaan	Torrington	0	0			
North Haven		42	28	9 (32%)	2 (7%)	5 (18%)
North Stonington	New London	4	3	0 (0%)	1 (33%)	0 (0%)
Norwalk		249	138	40 (29%)	5 (4%)	8 (6%)
Norwich		40	36	14 (39%)	2 (6%)	5 (14%)
Old Lyme	New London	21	18	10 (56%)	2 (11%)	2 (11%)
Old Saybrook		53	31	13 (42%)	2 (6%)	5 (16%)
Orange		32	27	8 (30%)	1 (4%)	2 (7%)
Oxford	Southbury	16	15	8 (53%)	0 (0%)	1 (7%)

Town	Health District Town	Total Identified	Total Tested	Positive for *Borrelia* (%)	Positive for *Anaplasma* (%)	Positive for *Babesia* (%)
Plainfield	Brooklyn	6	6	2 (33%)	0 (0%)	1 (17%)
Plainville	Southington	11	7	2 (29%)	1 (14%)	1 (14%)
Plymouth	Torrington	8	7	2 (29%)	1 (14%)	2 (29%)
Pomfret	Brooklyn	27	20	2 (10%)	0 (0%)	1 (5%)
Portland	East Hampton	7	4	1 (25%)	0 (0%)	0 (0%)
Preston		2	2	0 (0%)	0 (0%)	0 (0%)
Prospect	Cheshire	3	3	1 (33%)	0 (0%)	0 (0%)
Putnam	Brooklyn	5	4	0 (0%)	0 (0%)	0 (0%)
Redding		191	157	49 (31%)	6 (4%)	14 (9%)
Ridgefield		269	203	73 (36%)	17 (8%)	23 (11%)
Rocky Hill	Wethersfield	32	16	9 (56%)	2 (13%)	1 (6%)
Roxbury	Newtown	17	11	4 (36%)	0 (0%)	1 (9%)
Salem	Norwich	2	2	1 (50%)	0 (0%)	0 (0%)
Salisbury	Torrington	8	4	1 (25%)	0 (0%)	1 (25%)
Scotland	Mansfield	0	0			
Seymour		37	27	9 (33%)	0 (0%)	2 (7%)
Sharon		5	2	0 (0%)	0 (0%)	0 (0%)
Shelton	Seymour	52	39	13 (33%)	1 (3%)	4 (10%)
Sherman		7	7	3 (43%)	0 (0%)	2 (29%)
Simsbury	Canton	43	29	11 (38%)	1 (3%)	3 (10%)
Somers		5	4	0 (0%)	0 (0%)	0 (0%)
South Windsor		35	16	5 (31%)	1 (6%)	3 (19%)
Southbury		147	126	43 (34%)	4 (3%)	17 (13%)
Southington		40	22	5 (23%)	4 (18%)	2 (9%)
Sprague	Norwich	2	2	0 (0%)	0 (0%)	0 (0%)
Stafford	Enfield	14	11	6 (55%)	1 (9%)	1 (9%)
Stamford		219	184	62 (34%)	6 (3%)	11 (6%)
Sterling	Brooklyn	0	0			
Stonington	New London	7	6	3 (50%)	1 (17%)	0 (0%)
Stratford		71	27	6 (22%)	1 (4%)	3 (11%)
Suffield	Enfield	8	6	1 (17%)	0 (0%)	0 (0%)
Thomaston	Torrington	1	1	0 (0%)	0 (0%)	0 (0%)
Thompson	Brooklyn	0	0			
Tolland	Mansfield	9	8	1 (13%)	0 (0%)	1 (13%)
Torrington		79	61	23 (38%)	3 (5%)	5 (8%)
Trumbull		198	142	37 (26%)	5 (4%)	15 (11%)

Town	Health District Town	Total Identified	Total Tested	Positive for *Borrelia* (%)	Positive for *Anaplasma* (%)	Positive for *Babesia* (%)
Union	Brooklyn	0	0			
Vernon	Enfield	10	5	3 (60%)	1 (20%)	1 (20%)
Voluntown	Norwich	0	0			
Wallingford		81	63	23 (37%)	2 (3%)	3 (5%)
Warren	Torrington	2	1	0 (0%)	0 (0%)	0 (0%)
Washington		10	9	4 (44%)	0 (0%)	1 (11%)
Waterbury		15	8	2 (25%)	0 (0%)	1 (13%)
Waterford	New London	14	8	3 (38%)	2 (25%)	1 (13%)
Watertown	Torrington	10	5	3 (60%)	0 (0%)	0 (0%)
West Hartford	Bloomfield	29	23	8 (35%)	2 (9%)	0 (0%)
West Haven		22	15	4 (27%)	0 (0%)	1 (7%)
Westbrook		11	5	2 (40%)	0 (0%)	0 (0%)
Weston	Westport	14	10	2 (20%)	1 (10%)	0 (0%)
Westport		150	128	29 (23%)	11 (9%)	11 (9%)
Wethersfield		7	5	1 (20%)	0 (0%)	2 (40%)
Willington	Mansfield	3	3	1 (33%)	0 (0%)	0 (0%)
Wilton		254	190	54 (28%)	7 (4%)	19 (10%)
Winchester	Torrington	5	4	0 (0%)	0 (0%)	0 (0%)
Windham	Enfield	6	5	2 (40%)	0 (0%)	0 (0%)
Windsor		24	17	6 (35%)	3 (18%)	2 (12%)
Windsor Locks	Enfield	2	2	0 (0%)	0 (0%)	0 (0%)
Wolcott	Cheshire	4	2	0 (0%)	0 (0%)	0 (0%)
Woodbridge	North Haven	53	47	13 (28%)	2 (4%)	5 (11%)
Woodbury	Southbury	7	3	1 (33%)	0 (0%)	0 (0%)
Woodstock	Brooklyn	12	10	5 (50%)	0 (0%)	3 (30%)