



LABORATORY of MEDICAL ZOOLOGY

Annual report 2018

Tick testing in **Carlisle, MA**

Summary

During the period 1 January 2018 – 31 December 2018, Carlisle residents placed 44 TickReport orders. Of these 44, 38 specimens arrived at our lab as valid orders (the remaining 6 orders are considered abandoned and 6 redemptions have been credited to Carlisle).

A total of 43 valid orders have been charged against the 100-coupon Carlisle subsidy since it was instituted—I have credited two others since our last report (October 18) due to goodwill refunds or sample quality. 57 redemptions remain as we start the 2019 tick season.

Completed/valid submissions in 2018:

Month	Specimens submitted
January	
<u>February</u>	<u>1</u>
<u>March</u>	<u>4</u>
<u>April</u>	<u>1</u>
<u>May</u>	<u>13</u>
<u>June</u>	<u>7</u>
<u>July</u>	<u>4</u>
<u>August</u>	<u>1</u>
September	
<u>October</u>	<u>2</u>
<u>November</u>	<u>5</u>
December	

Pathogen testing results for 2018 submissions:

Pathogen	Associated disease	Number positive	Percent positive
<i>Borrelia burgdorferi sensu lato</i>	Lyme borreliosis	14	36.8%
<i>Anaplasma phagocytophilum</i>	Anaplasmosis/HGA	2	5.26%
<i>Babesia microti</i>	Babesiosis	2	5.26%

Host demographics:

92.11% of specimens submitted were found on human hosts (other specimens found on pets or in living spaces). Average host age was 39.7 years, and average self-reported attachment time was 14.0 hours.