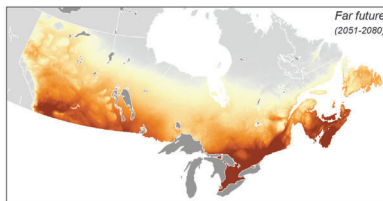
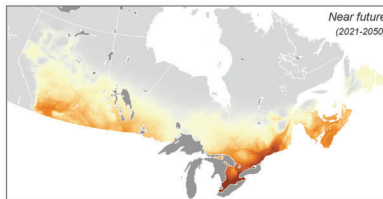
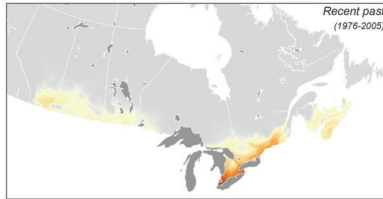


Climate Change, Ticks, and Lyme Disease Risk in Canada

These maps show where temperatures are suitable for the growth and development of blacklegged ticks in future climates if we continue to increase our emissions. Blacklegged ticks can carry Lyme disease. These ticks live in wooded areas, so if you live, work, or play in wooded areas with suitable temperatures, you may be at risk of encountering a tick carrying Lyme disease.



Minimum temperatures for growth and development of ticks



More than enough heat to support the growth, development and spread of ticks



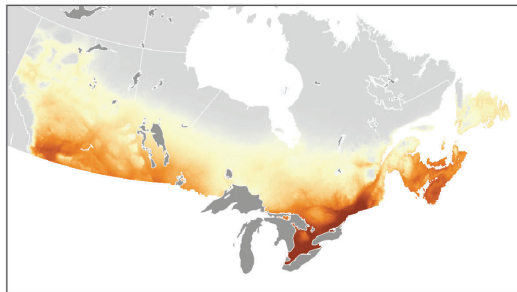
Prairie Climate Centre
From Risk to Resilience

Temperatures sufficient for the growth and development of blacklegged ticks are at least 2860 degree days (the total of all daily temperatures above 0 °C in a year). The colour scale shows 2860 degree days (yellow) to 4000 degree days (red). This map does not apply to the species of Lyme-carrying ticks that live west of the Rocky Mountains. The climate projections on these maps were made using 24 climate models running the "high carbon" emissions scenario (RCP8.5). Climate model data was downscaled and made available by the Pacific Climate Impacts Consortium (PCIC).

Lyme Disease Risk and Climate Action in Canada

These maps show where temperatures are suitable for the growth and development of blacklegged ticks in future climates if we take action to lower emissions (left) or if we continue to increase our emissions as usual (right). As you can see, if we take action on climate change we can reduce the health risk of Lyme disease.

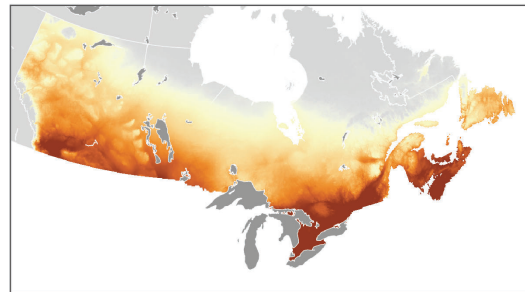
Less climate change (lower our emissions)



Minimum temperatures for growth and development of ticks



More climate change ("business as usual")



More than enough heat to support the growth, development and spread of ticks



 Prairie
Climate Centre
From Risk to Resilience

Temperatures sufficient for the growth and development of blacklegged ticks are at least 2800 degree days (the total of all daily temperatures above 0 °C in a year). The colour scale shows 2860 degree days (yellow) to 4000 degree days (red). This map does not apply to the species of Lyme-carrying ticks that live west of the Rocky Mountains. The climate projections on these maps were made using 24 climate models running the "low carbon" (left; RCP4.5) and "high carbon" (right; RCP8.5) emissions scenarios for the "far future" (2051-2080). Climate model data was downscaled and made available by the Pacific Climate Impacts Consortium (PCIC).