

Title of project or data set

Larval burden on trapped hosts

Dataset version and citation

Please cite this dataset version:

Ostfeld, R., Oggenfuss, K. and LaDeau, S. Larval burden on trapped hosts.
10.25390/caryinstitute.25747119

Abstract

These data are part of a larger, long-term project to understand function in a complex forest network of linked and interacting taxa. The broad approach has been to quantify the strength of interactions between pairs of taxa and to embed those pairwise interactions in a more comprehensive interaction web, which itself might be affected by ongoing shifts in temperature and precipitation patterns. Specifically, this approach allows us to examine both top-down and bottom-up forces impacting small mammals, their tick parasites and associated pathogens. This particular dataset reflects numbers of larval ticks (*Ixodes scapularis*) observed on two species of small mammals during the peak larval question period (August - September) over 32 years at six sites on Cary Institute property.

Creators

Richard Ostfeld
ostfeldr@caryinstitute.org
ORCID: 0000-0002-3707-9301

Kelly Oggenfuss
oggenfussk@caryinstitute.org

Shannon LaDeau
ladeaus@caryinstitute.org
ORCID: 0000-0003-4825-5435

Keywords

tick, parasite, host, mouse, chipmunk

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Award – DEB-1456527 5/1/2015-4/30/2020
Award – DEB-1947756 5/1/2020-4/30/2024

Timeframe

● 1991-08-06 (y-m-d)

- 2023-09-07
- Data collection **ongoing**

Geographic location

Research occurred on Cary Institute of Ecosystem Studies property, main campus located at 41.783622,-73.732357

Taxonomic species or groups

Ixodes scapularis (blacklegged tick)

Peromyscus leucopus (white-footed mouse)

Tamias striatus (eastern chipmunk)

Methods

Six 2.25-ha plots each have an 11 by 11 grid of trap stations, with two live-traps per station, totaling 242 traps per grid. Live traps are deployed for two consecutive days each month. All captured mammals are individually marked, examined for tick burdens, and released at point of capture.

Location of field samples or specimens

Ostfeld Lab, located at the Cary Institute of Ecosystem Studies, Millbrook, NY

Data Table

Column name	Description	Unit	Code explanation or date format	Empty value code
Year	Year of collection		dbl	NA
Grid	Site name		chr	NA
Day1	First date of trap deployment	Y-m-d	chr	NA
weeknum	Week of the year		dbl	NA
Spp	Species	TS or PL	chr	NA
Tag	Tag Identification		factor	NA
Larvae	Number larvae observed	#	numeric	NA

Articles

Article in progress

Ancillary files: software, code, protocols

Zenodo code in progress

There will be several LTREB (tick) related datasets

Notes and Comments

These data are a subset of specific sample months from a larger data file.