

## **Title of project or data set**

Host Trap Data - mice and chipmunk

## **Dataset version and citation**

Please cite this dataset version:

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## **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 and estimated population abundances for white-footed mice and eastern chipmunks trapped and tagged at six Cary Institute grid plots during August and September across 31 years.

## **Creators**

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## **Keywords**

host, mouse, chipmunk

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Ostfeld is main PI on all grants listed below.

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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)
- 2022-09-13
- 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

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
<b>Grid</b>	Site name		chr	NA
<b>Day.1</b>	First day of trap deployment	Excel-based day number	num	NA
<b>Day.2</b>	Second day of trap deployment	Excel-based day number	chr	NA
<b>Day.3</b>	Third day of trap deployment	Excel-based day number	chr	NA
<b>Year</b>	Year		num	NA
<b>Week</b>	Week - internal seasonal	number	num	
<b>MNA</b>	Minimum Number Alive	Count of unique individuals	num	NA
<b>Sample.Size</b>	Raw count of all trapped animals by species	Count	num	NA
<b>Full.(birth.and.death)</b>	Population estimate by Jolly-Seber model	Number Individuals	num	NA
<b>Heterogeneous.survival</b>	Population estimate by Jolly-Seber model variation	Number Individuals	num	NA
<b>Date</b>	Date	YR-m-d	chr	
<b>spec</b>	Species	TS (chipmunk) or PL (mouse)	chr	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 months and species from a larger data file.

Mouse removal occurred on experimental grids in 1997 and 1998