

This file contains plant and insect data from:

Grinath, J. B. (2018). Short-term, low-level nitrogen deposition dampens a trophic cascade between bears and plants. *Ecology and Evolution*.

A description of the data is provided below. See the research article referenced above for additional details.

Please contact Josh Grinath ([joshua.grinath@mtsu.edu](mailto:joshua.grinath@mtsu.edu)) if you have any questions or concerns about the data accompanying this file.

### Metadata – explanation of column headings

**Nest.ID** = unique identification number for each ant nest enclosure (n = 36)

**Plant.ID** = unique identification number for each experimental rabbitbrush plant (n = 142)

**F.Nitrogen** = experimental factor for the presence (1) vs. absence (0) of nitrogen addition, manipulated at the level of entire ant nest enclosures

**F.Inactivity** = experimental factor for the presence (1) vs. absence (0) of an inactive primary ant nest within each enclosure; nests became inactive following bear attacks

**F.Treehopper** = experimental factor for treehoppers present (1) vs. removed (0) from individual plants

**F.Ant** = experimental factor for foraging ants present (1) vs. excluded (0) from individual plants

**Flower.buds** = initial flowering bud abundance per plant on July 19, 2012

**Seed.mass** = total seed mass produced per plant, in mg

**Seed.mass.per.bud** = seed mass (mg) per initial flowering bud for each plant

**Change.in.plant.mass** = change in estimates of plant aboveground dry biomass between July 11 and August 3, 2012

**Ants** = cumulative abundance of foraging ants on plants from three surveys from July 19 to August 3, 2012

**Treehoppers** = cumulative abundance of treehoppers on plants from three surveys from July 19 to August 3, 2012

**Change.in.treehoppers** = treehopper abundance in the final survey minus the starting abundance of treehoppers per plant

**Beetles** = cumulative abundance of herbivorous beetles on plants from three surveys from July 19 to August 3, 2012

**Caterpillars** = cumulative abundance of caterpillars on plants from three surveys from July 19 to August 3, 2012

**Leafhoppers** = cumulative abundance of leafhoppers on plants from three surveys from July 19 to August 3, 2012

Note: cells with 'NA' indicate that data are not available. Some plants had zero flowering buds at the time of the bud count and are designated with NA because plant reproduction data are unavailable.