

# Garden coordinator meeting

Presentation by Kristen Jovanelly and Chenyang Su

Contact: Chenyang Su ([Chenyang.su.gr@Dartmouth.edu](mailto:Chenyang.su.gr@Dartmouth.edu)), Kristen Jovanelly ([kristen.m.jovanelly.gr@dartmouth.edu](mailto:kristen.m.jovanelly.gr@dartmouth.edu)), Theresa Ong ([theresa.w.ong@dartmouth.edu](mailto:theresa.w.ong@dartmouth.edu))

Data collection and analyses by Ong Agroecology Lab

Dartmouth College

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# Ecology Study:

## A. Plant diversity and most common plants

| Year | Number of Gardens | Plant family | Crop types | Total count |
|------|-------------------|--------------|------------|-------------|
| 2021 | 38                | 34           | 121        | 76071       |
| 2022 | 6                 | 30           | 114        | 5107        |
| 2023 | 6                 | 30           | 89         | 2921        |
| 2024 | 11 and ongoing    | /            | 175*       | 4105        |



Top 10 for three years: tomato, beans, pepper, squash, basil

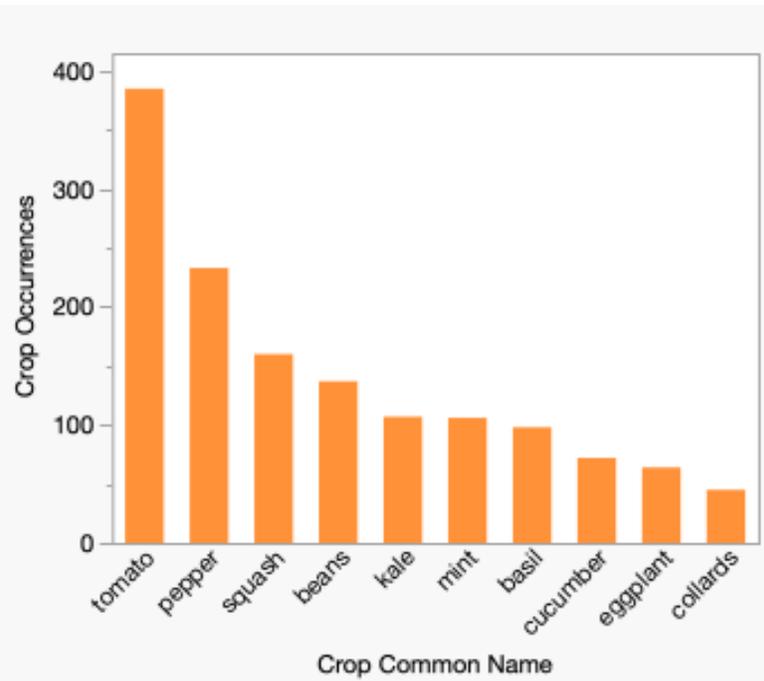
Top 10 for two years: kale, cucumber, eggplant

Top 10 for one year: mint, collards, cilantro, chives, corn, chard, lettuce, sage

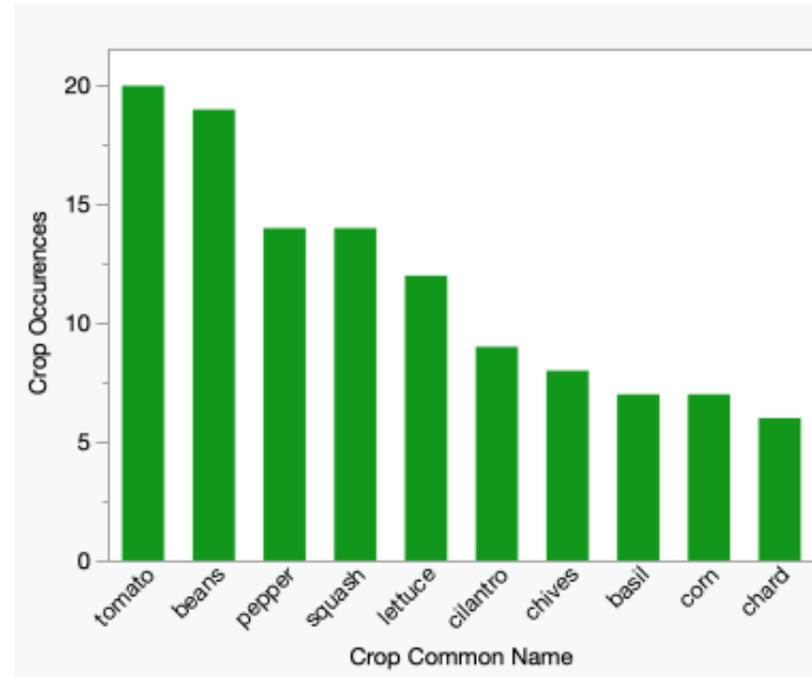
\* Includes ornamental plants

# A. Plant diversity and most common plants

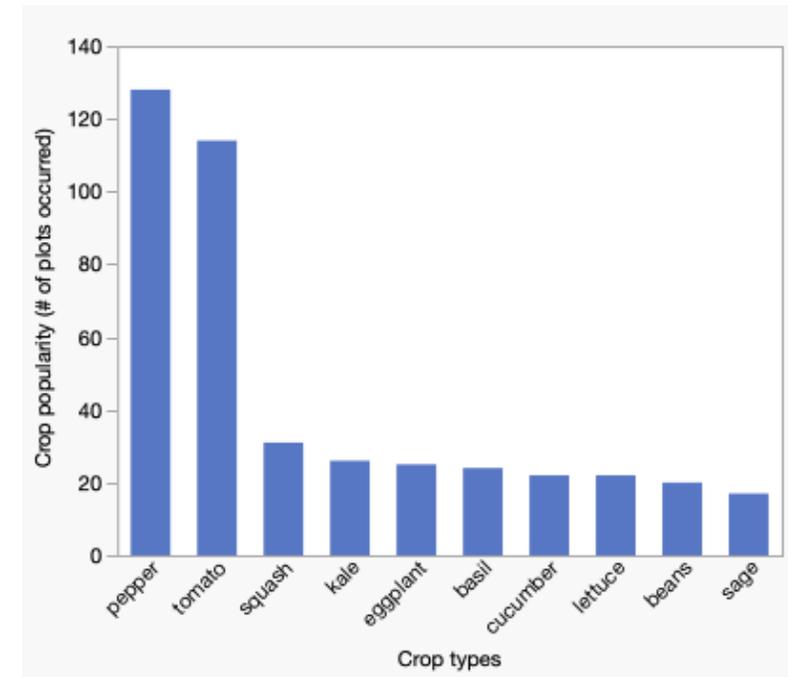
2021



2022

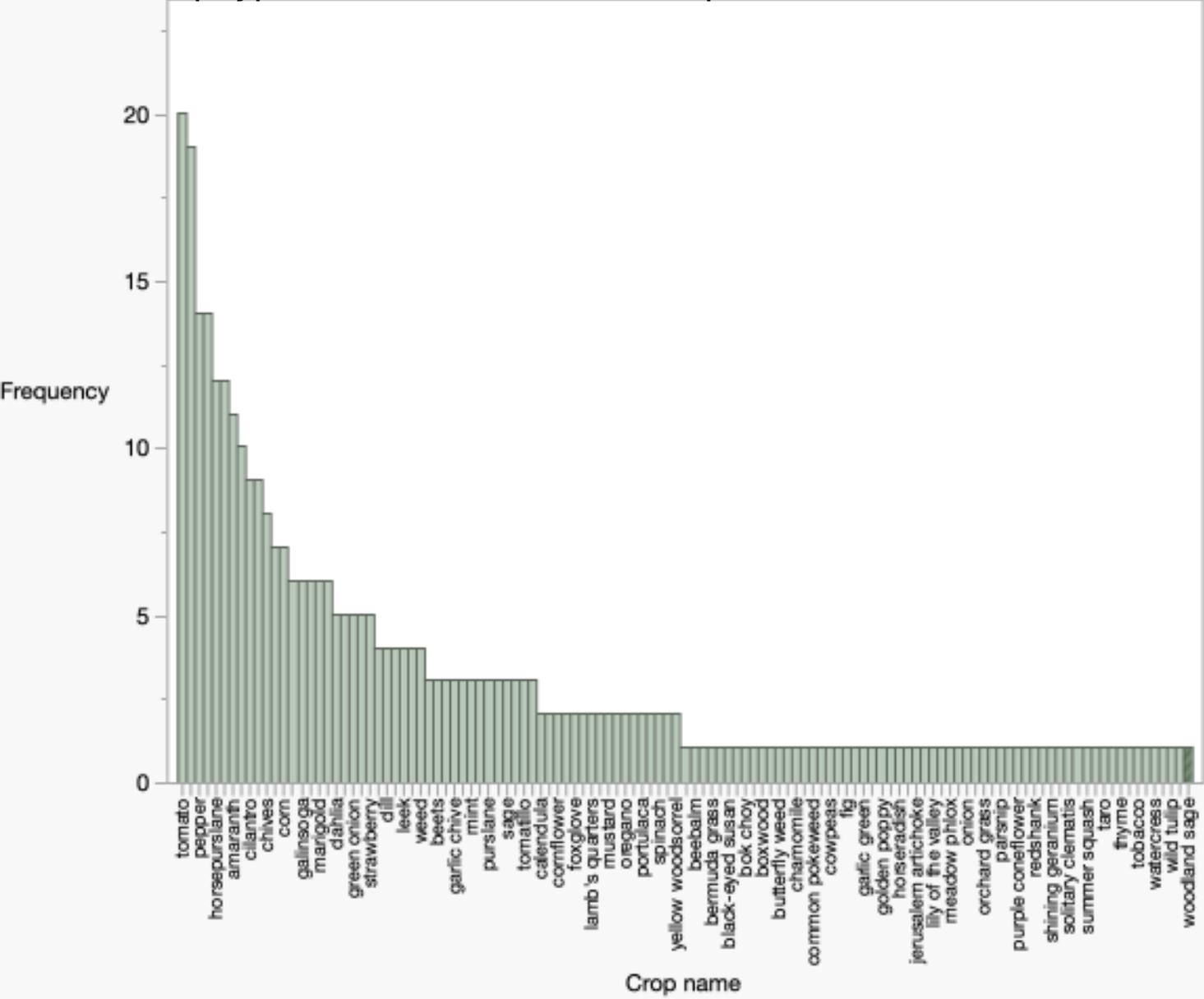


2024



# A. Plant diversity and most common plants

2022 Crop types and occurrences in 30 plots



Crop

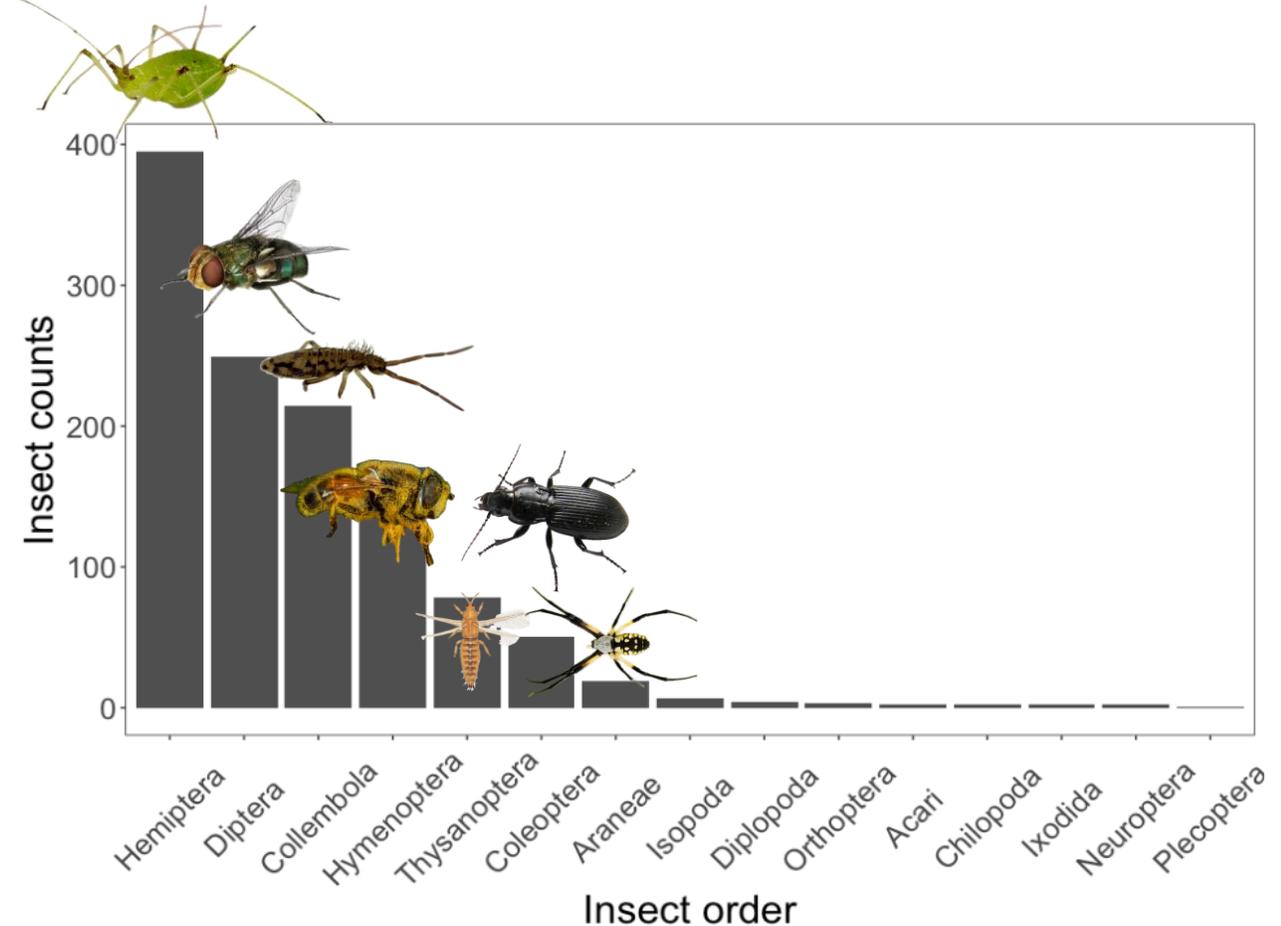
There are many rare plants and crops!



## B. Which insects are in our gardens? What might be impacting them?

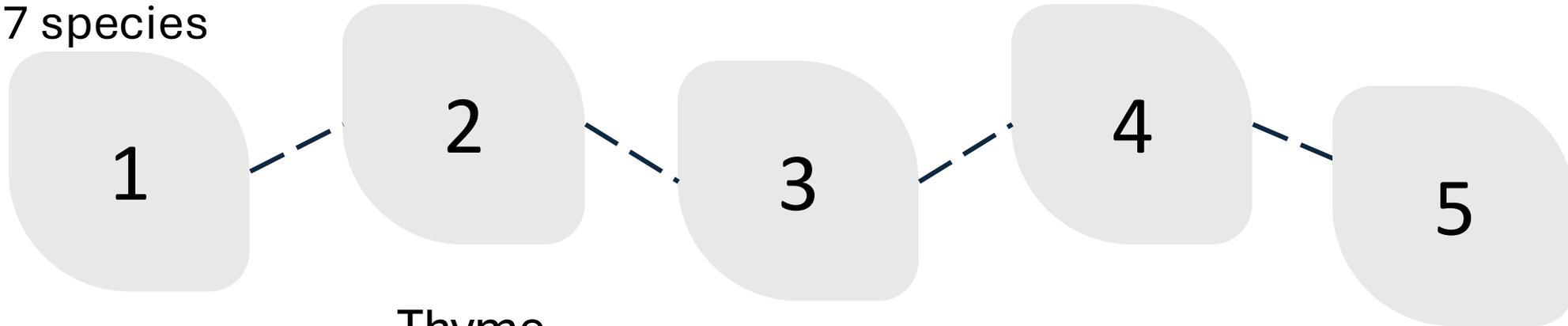
There are really diverse insects and other arthropods in the gardens!

- In 6 gardens, we collected
  - 1199 arthropods,
  - 15 unique orders,
  - 134 unique morphospecies
- Plant family-level richness may be impacting the richness and abundance of the insects you have in your plots!



# C. Most common weeds in the gardens

4983 counts total  
117 species



Hairy Galinsoga  
1131 counts



Thyme  
Speedwell  
696 counts



Henbit  
666 counts



Thale Cress  
412 counts



Spring Draba  
330 counts

