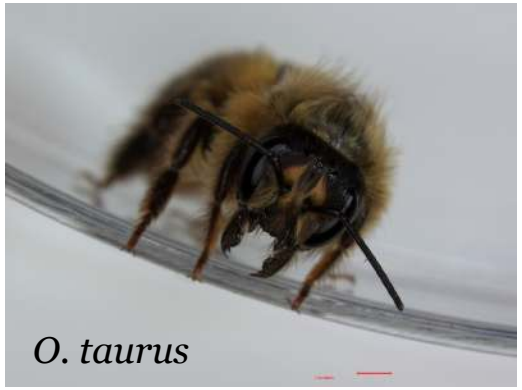
Bee hotels

- Bee hotels provide opportunities for pollinator conservation in urban areas
- Provide nesting near floral resources
- Bee hotels are tools to incorporate the public in pollinator conservation
- Schools, parks, residential, citizen science

- **Do we know enough about bee hotels to determine their role in pollinator conservation?**

Results: Bee hotels

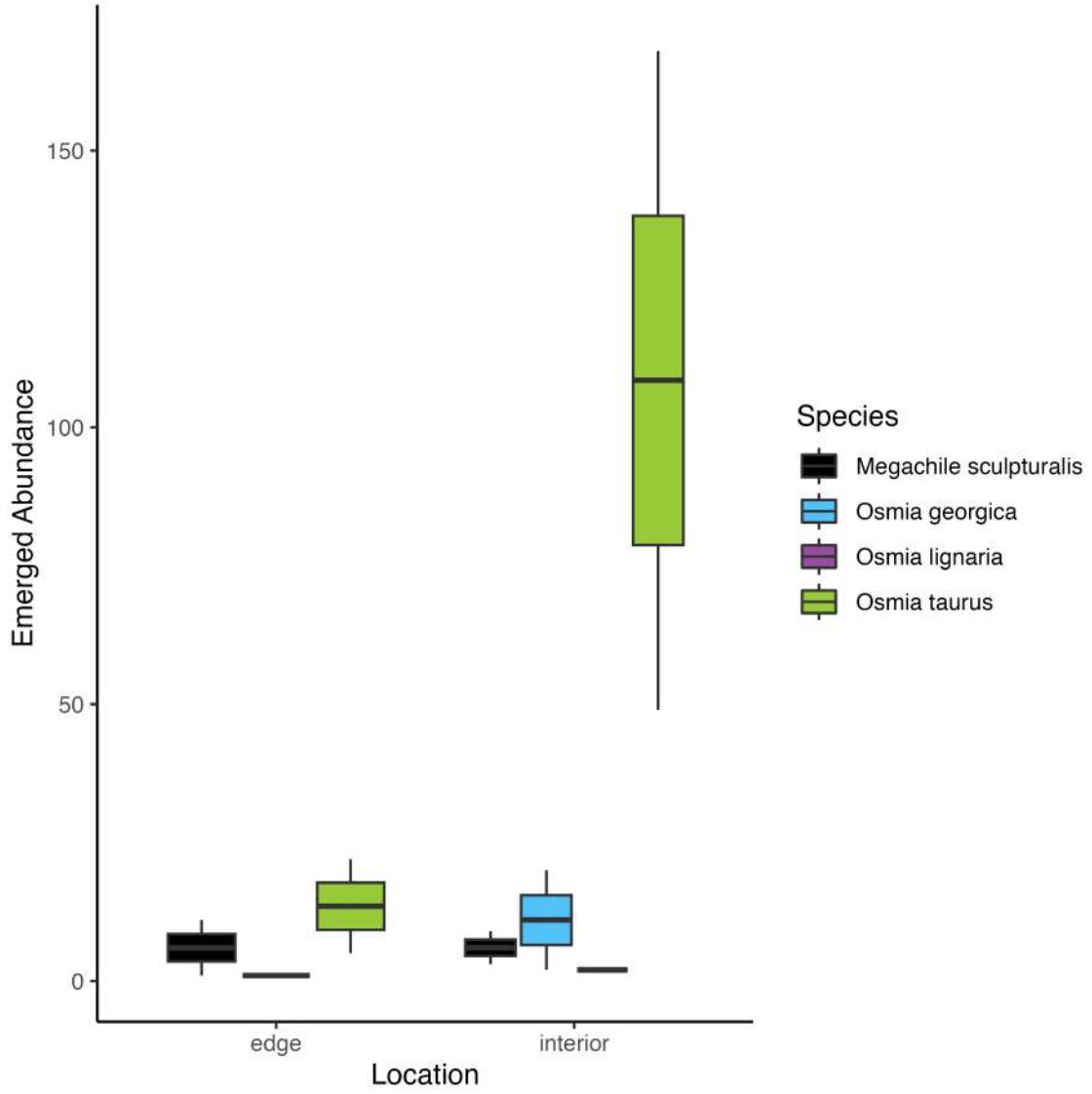
- Osmia began to emerge in late February-March 2023
  - 244 *O. taurus*, 22 *O. georgica*, 6 *O. lignaria*
- *Megachile sculpturalis* (24) emerged in late June



O. georgica, Photo: Same Droege USGS

M. sculpturalis, Photo: Same Droege USGS

O. lignaria, Photo: Same Droege USGS



Discussion

- Bee hotels capture only a subset of Megachilid diversity
  - Alternative passive sampling collected:
    - 5 *Osmia* species:
      - *O. taurus, O. pumila, O. atriventris, O. lignaria, O. bucephela*
    - 5 *Megachile*
    - *Stelis diversicolor* and *Hoplitis spp.*
- Bee hotels appear to support exotic species
  - Consistent with Geslin et al. (2020), MacIvor & Packer (2015)




Invasive Plant Removal

- Renovation with Pollinator Supporting plants



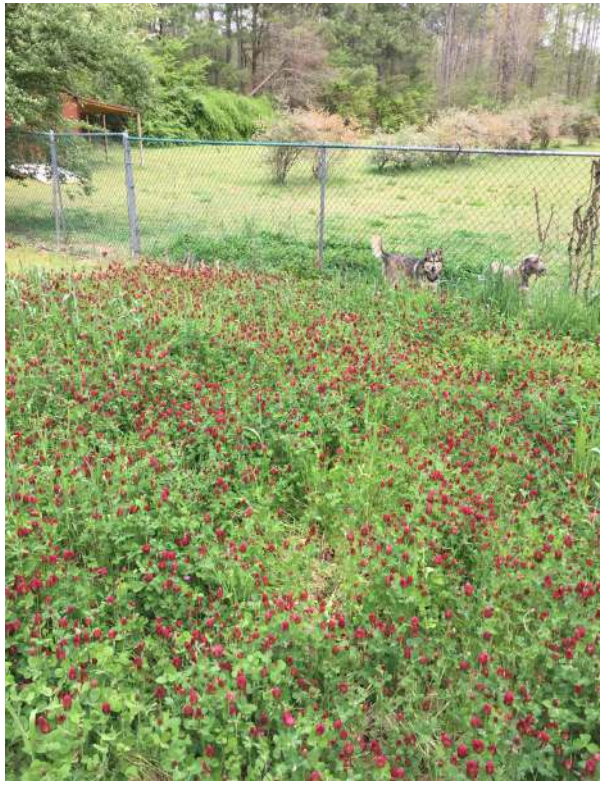

Pollinator Plants and Nesting Sites

- Landscape Renovation




Wildflower Area

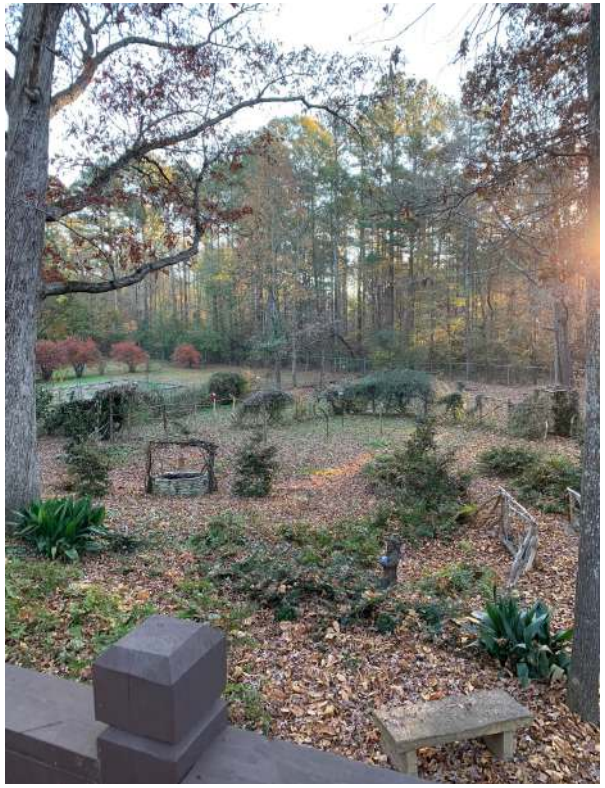
- Full Season Bloom




Layered Vegetation

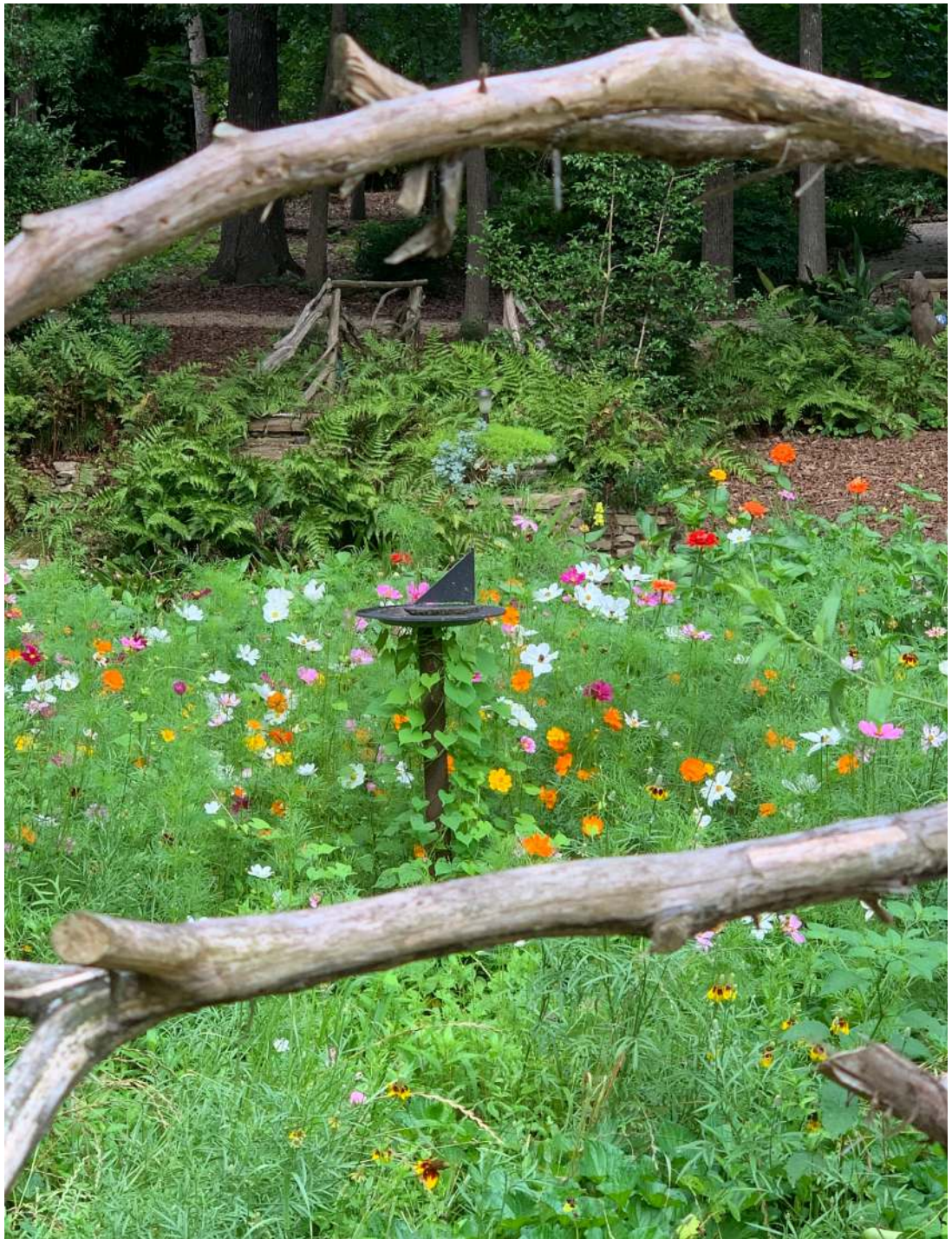
- Pollinator Plants



Late Season Plants

- Supports pollinators in the fall



Here are five simple things you can do to promote bee diversity and abundance…

Tolerate a little messiness in your yard and garden — some of us can already check that box:). Be sure that bees have access to water.

Consider leaving a little bare spot in your yard for ground nesting bees (Again, a great excuse for the lawn police).

When you trim your flowers at the end of the season, leave a few stems so the nesting bees will have a home.

Instead of the formal garden, go for the cottage garden with a riot of color all season long!

Plant more trees for the bees.