





# Research and Restoration in Oak Savanna at MSU MacCready Reserve

Pollinator response to restoration – floral faunal interactions

(Lettow, Brudvig, Landis)

#### **Guiding Questions**

- What biological indicators do we as land managers use to gauge restoration success (e.g. oak regeneration, plant diversity, bird diversity, invasives, etc.)?
  - \* Do indicators support/indicate success of other biological groups?
  - \* Are indicator groups driving our management methods?
  - \* What does our monitoring look like to detect these groups?
- Are pollinators considered when making management decisions?
- What features of managed oak systems are likely to support pollinators?
- Are pollinators critical to the success of our habitat restoration or other target groups?
- Is management for pollinators compatible with other habitat objectives?





# **Habitat results**

2011 Light Availability





# 2011 Floral Abundance

2012 Floral Abundance

2012 Floral Richness



## 2011 Floral Richness





# **Bee diversity results**



### 2011 Bee abundance



### 2011 Bee richness



#### 2011 Bee communities



\* Treatments within the same polygon indicate no statistical difference in community composition

#### 2012 Bee abundance



## 2012 Bee richness



#### 2012 Bee communities



