

# 1. Arthropod diversity

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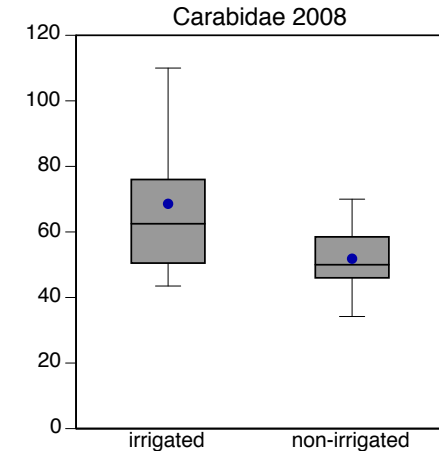
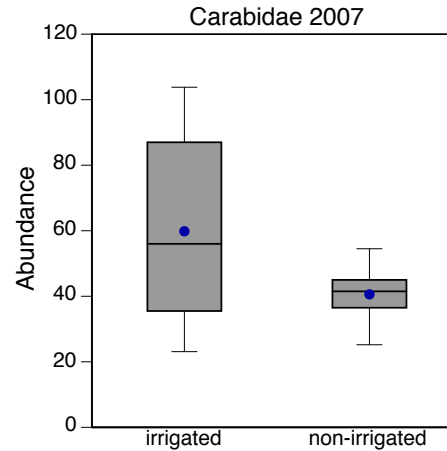
Does ground arthropod diversity and abundance differ between treatments?



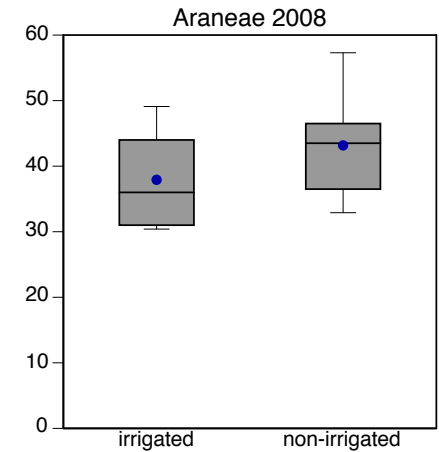
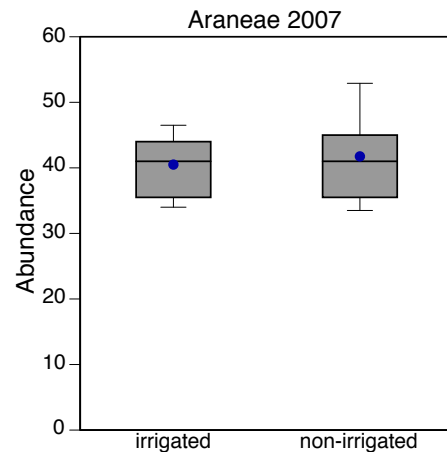
- 2 sampling years (07/08)
- April – September
- 3 pitfall traps / subplot
- Ground beetles (Carabidae)
- Spiders (Araneae)
  
- (Galls on oak)
- (*Tomicus* maturation feeding)

# Arthropod diversity

## Ground beetles



## Spiders

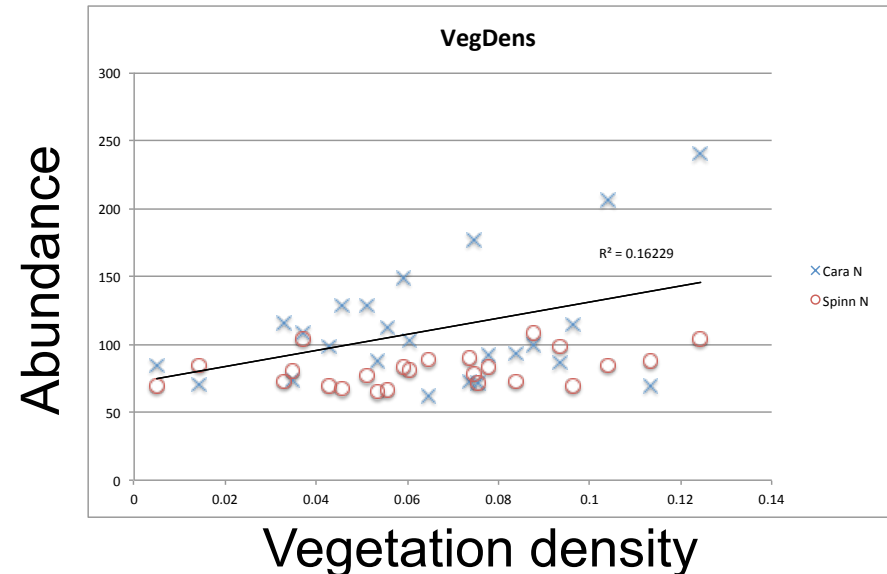


## 2. Vegetation density

Does vegetation density - an important habitat feature - correlate with arthropod abundance?



- 6 photos per subplot
- standardized projected vegetation per meter



# 3. Resin flow (outlook)

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Resin production is a key defense mechanism against bark beetle attack.

Do trees with different water supply and crown transparencies differ in their resin flow capacities?



## Measurements

- late spring /early summer
- sampling ~100 trees
- Different crown transparencies
- 24h resin flow

# 4. Bark beetle development (outlook?)

What is the colonization and reproductive success of bark beetles (BB) on differently irrigated trees?

- let BB choose trees?
- forced BB colonization on felled trees?
- Developmental time
- Mortality
- Reproduction

