

# Insects in Organic Reduced-Tillage Cropping Systems

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## Cultural Control:

Delay planting time



## Mechanical Control:

Tillage



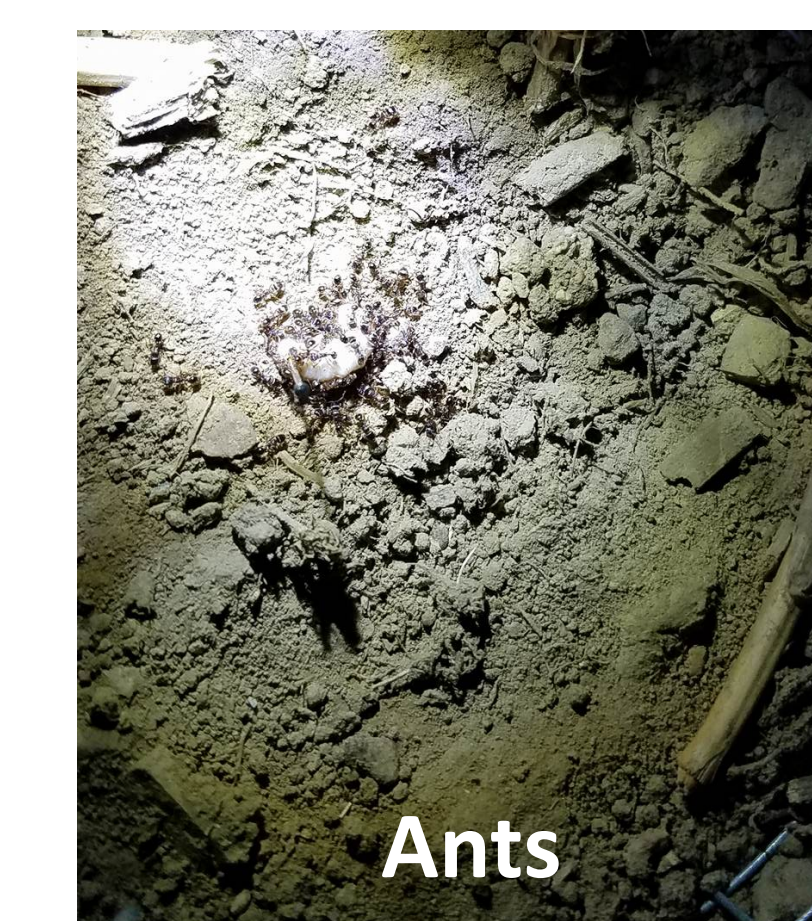
## Past Work (ROSE 1.0):

- Predators increase over time in organic management
- As predators increase, predation increases
- Hairy vetch & triticale mixture more favorable for predators than cereal rye
- Herbivory decreases as predation increases; yield unaffected



## Biological Control:

Promote natural enemies through habitat or reducing disturbance



## Ongoing Work (ROSE 2.0):

- Do similar cover crop mixtures affect predators/pests differently before corn?
  - Hairy vetch & triticale vs. red clover & timothy
- Effects of interseeding on predator conservation
- Predation rate is ~25% early in season, up to 95% later in season; similar in all systems
- Damage intensity typically 1 on 0-4 scale

