

Case study

# Corn field being eaten by slugs



# Slugs

~20% Mid-Atlantic no-till has yield loss from slugs annually  
(~600,000 acres)

Limited cost-effective management options



Some producers are returning to tillage to control slugs

# Slugs can damage virtually all crops

Canola



Corn



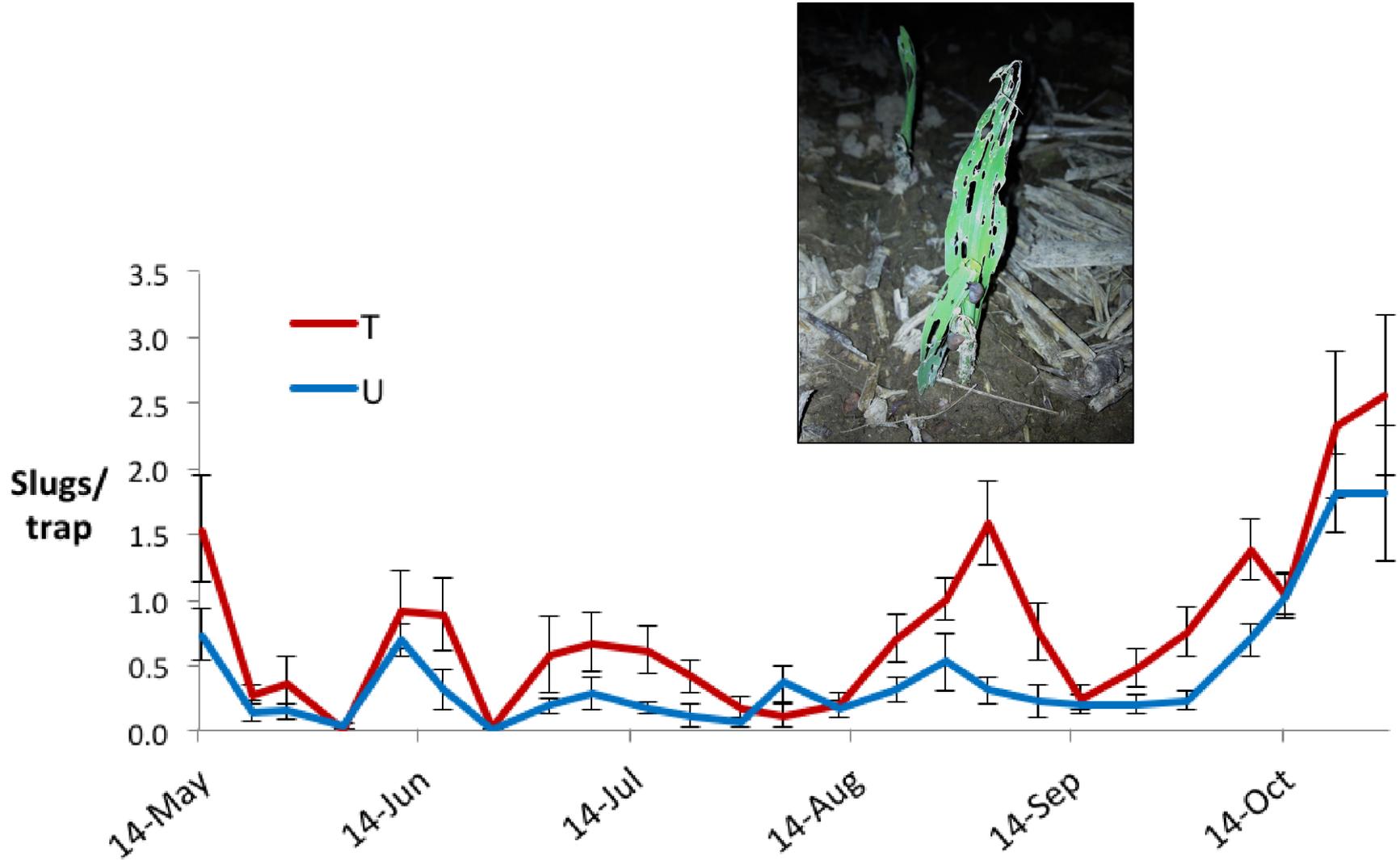
Soybean



Alfalfa &  
Sm. grains



# Neonic seed treatments exacerbate slug problems





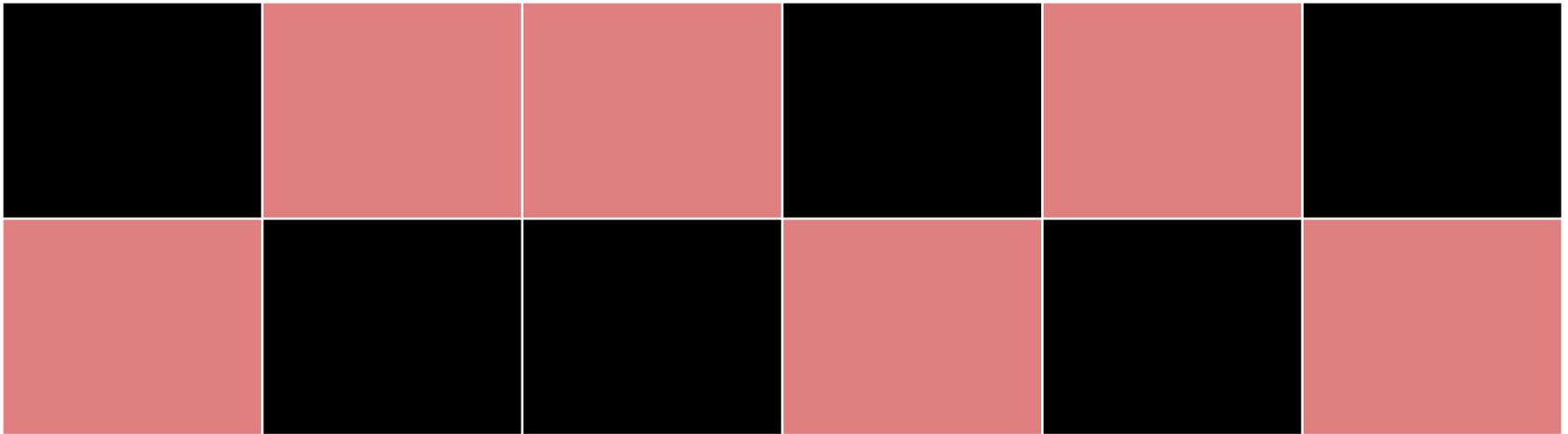
# Do neonics exacerbate slug populations in the field?

## Treated

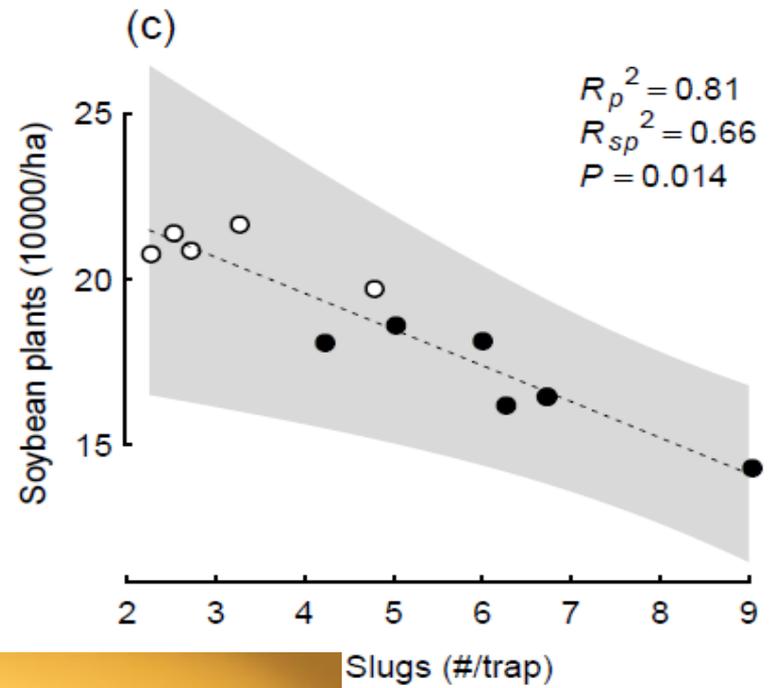
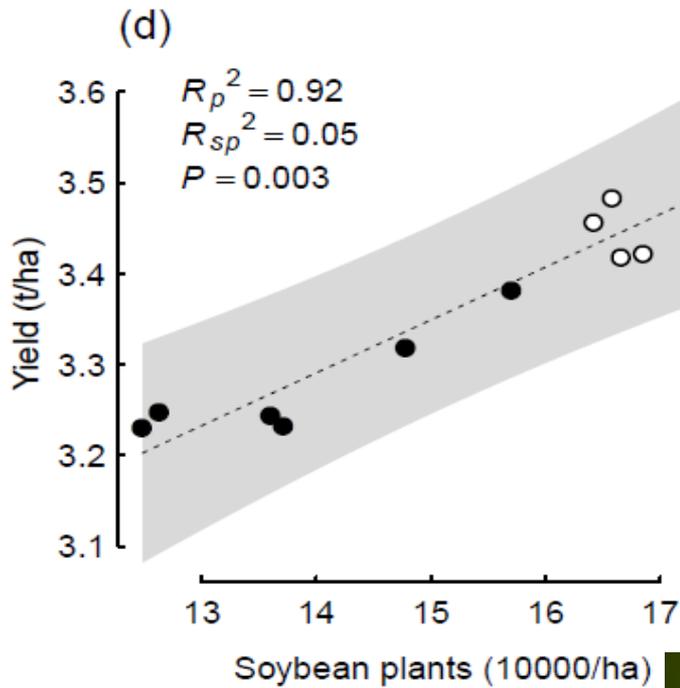
Thiamethoxam (0.152 mg/seed)  
+ fungicides (CruiserMaxx)

- N = 6
- 0.25-acre plots
- No-till planted in 30" rows

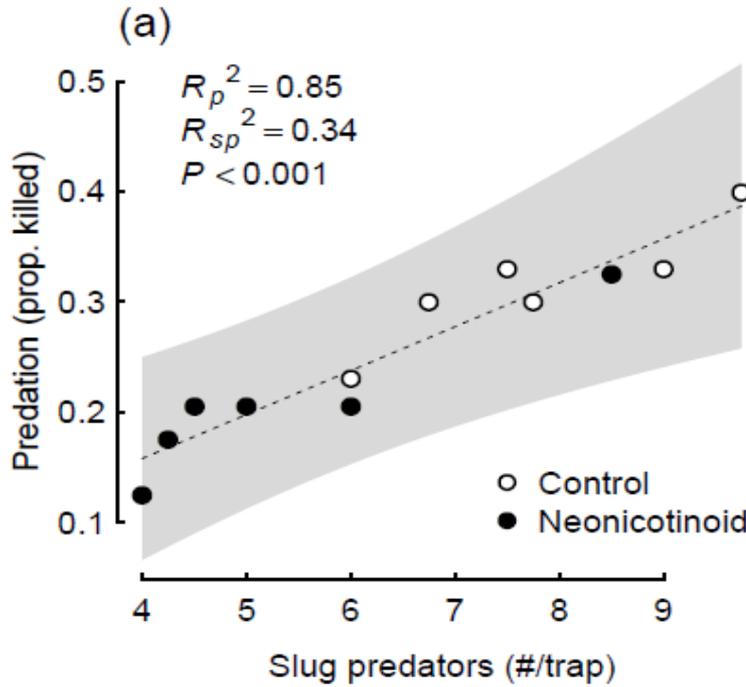
## Untreated



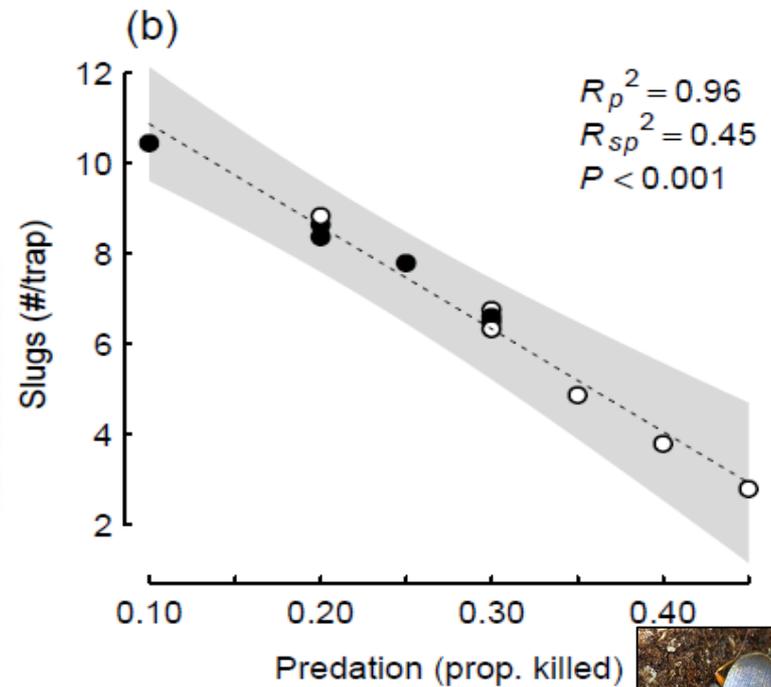
# Slugs decrease soybean yield



# Predators control slug populations



Insecticides disrupt biological control





# Neonic seed treatments generate toxic slugs

