

# New disease and pest identifications in cut flowers in Utah

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# **Fusarium wilt on ranunculus**

# Fusarium wilt on ranunculus

- Host: Ranunculus
- *Fusarium oxysporum* (specific to ranunculus)
- Symptoms:
  - Wilting of plants
  - Vascular discoloration in stems and corms



# Fusarium wilt of ranunculus

- Introduction and spread: Infected corms
- May only be a couple of infected corms but if they get tilled or plowed and then new ranunculus are planted inoculum builds up
- Management:
  - Completely remove and destroy infected plants (including corms and roots)
  - Rotate with non host plants for several years

**Coneflower**  
**Rosette Mite**

# Coneflower Rosette Mite

- Eriophyid mite (cannot be seen with the naked eye)
- Spread to new locations by wind
- During warm temperature and strong wind mites gather at tips of flower to get blown to new locations
- Mites feed at the base of the flowers
- Symptoms:
  - Rosette-like tufts on cones (sometimes they are green) (can be mistake for phytoplasma infection)

# Coneflower Rosette Mite



# Management – Rosette mite

- Cut infected flowers heads as soon as symptoms are detected before mites start to migrate
- Ideally put a bag underneath the flower head when you cut them off

**Dry bulb mite**

# Dry bulb mite

- Eriphyid mite
- Scientific name: *Aceria tulipae*
- Infects tulips and *Allium* sp.
- Symptoms:
  - Red to yellow spots on the outside of tulip bulbs
  - Infested bulbs dry up
  - Sprouting and root development are inhibited



Mites

# Management

- Low temperature storage
- Early planting



Thank you for listening!  
Questions?