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Pest & Natural Enemy ID Greenhouse Scout School **Session 5: March 12, 2025** 

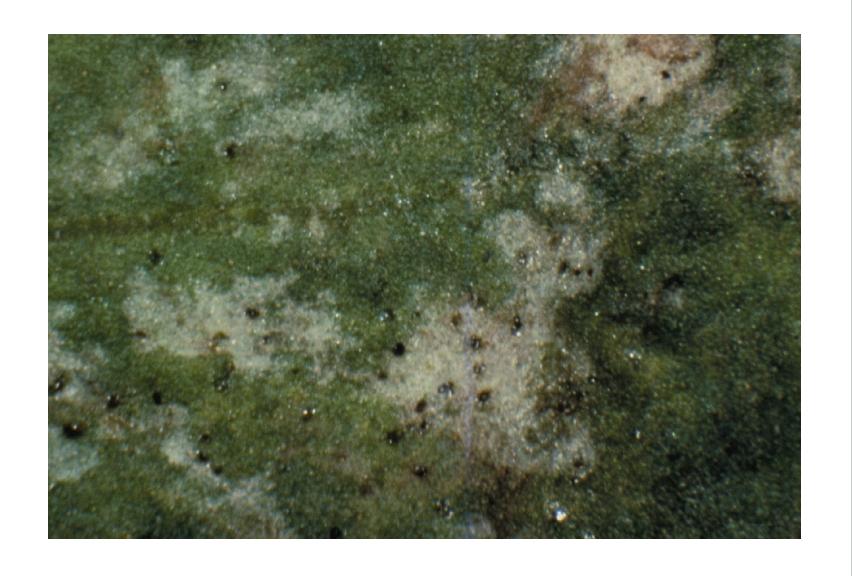










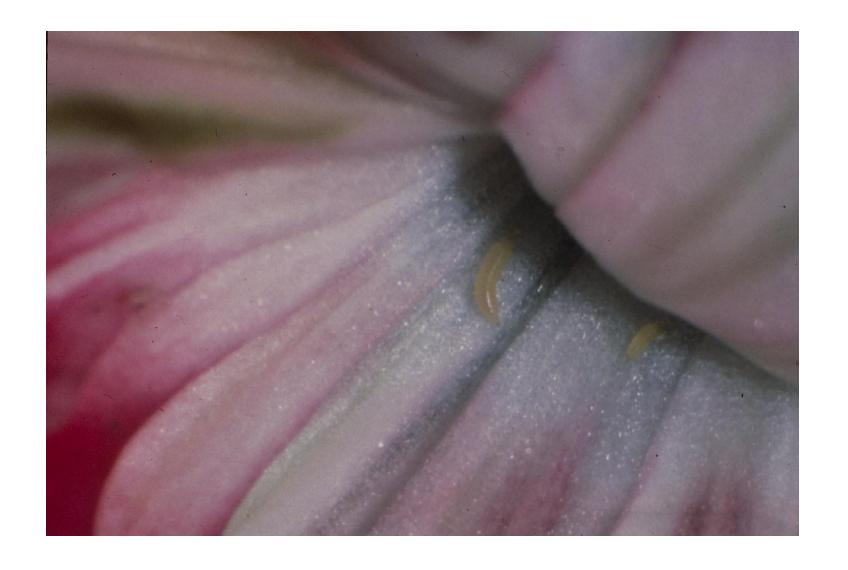


Close up of thrips feeding damage and black fecal spots





Typical Thrips Damage



Often found in tight, hidden places



Feeding in growing points can result in stunting and deformed growth









Western flower thrips can transmit tospoviruses (INSV, TSWV)



Greenhouse thrips damage Sometimes feeding damage will be restricted to certain cultivars



### Did thrips cause the damage?

Seeing damage like this?

How many thrips on your sticky traps?





### Thrips species can look different

Western flower thrips



Echinothrips ("Poinsettia thrips")



Onion thrips



Greenhouse thrips



But some can also look the same









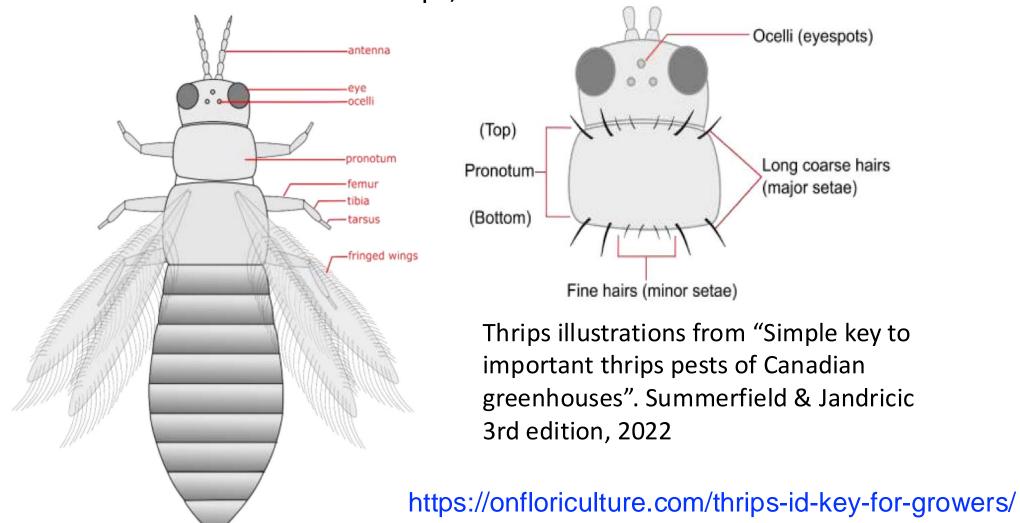
#### And there can be color morphs in the same species The light (left), bicolor (centre) and intermediate (right) color morphs of western flower thrips (*Frankliniella occidentalis*)



Photo courtesy of A. Summerfield

## Best to send questionable samples to a diagnostic lab. Advanced scouts/growers might use an identification key

Identification characters for thrips, based on adult females

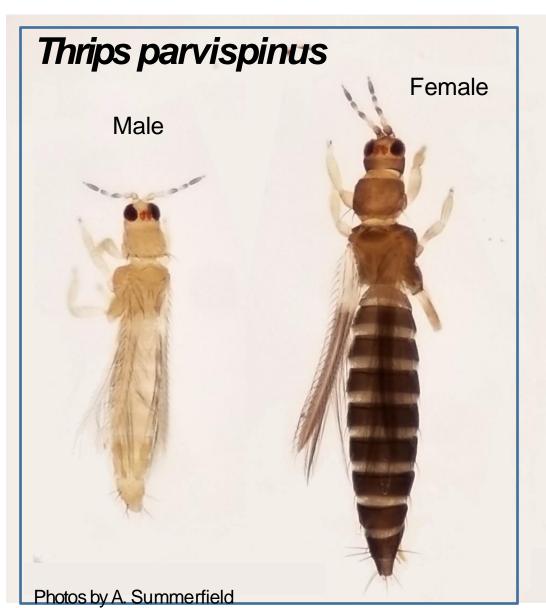


## Appearance / ID

#### **Appearance:**

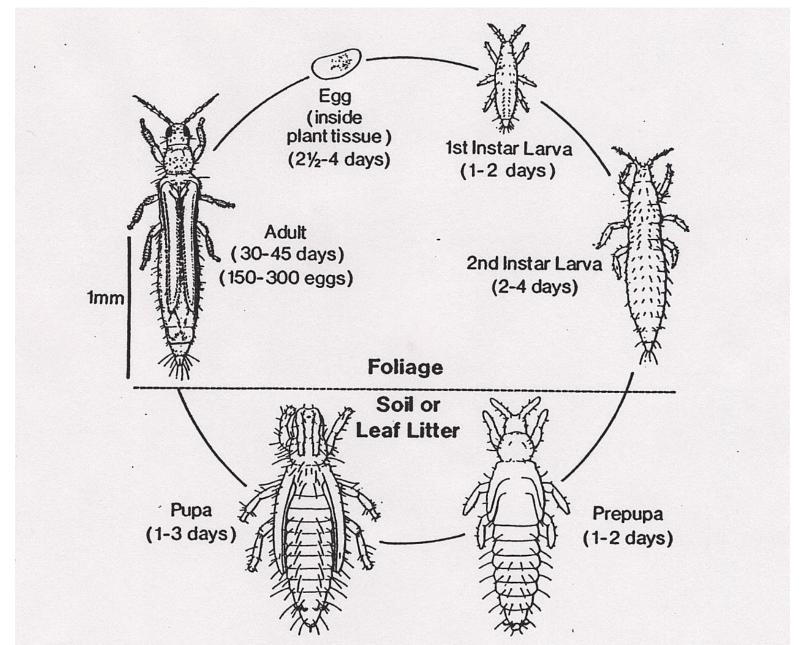
- VERY small, dark brown, lighter head & thorax
- Wings pale at base
- Males yellow
- VERY red ocelli







#### Lifecycle of Western flower thrips



Not all thrips pupate in the soil!

#### These are the two life stages of thrips that are most commonly seen





2nd instar Adult



Thrips have fringed wings











Flower thrips love pollen, very often are in flowers



Plant Taps for Thrips

Other monitoring techniques: https://onfloriculture.com/

## First plants to have thrips in the Spring

- Draceanas, spikes
- Ivy geraniums (esp. Balcon types and Cascades, those with lacier leaves)
   Thrips will be found in the smallest open leaf
- Vinca vine
- Verbena
- Sweet potato vines (Ipomoea), esp. lime green ones (Margarite types)
- Scaevola
- Gerberas
- Lantanas
- Peppers

## Plants that get thrips but don't show damage right away

- All the grey and fuzzy-leafed species:
   Ageratum, dusty miller, artemesias, helicrysums (licorice)
- Draceanas, spikes
- Vinca vines
- Thick-leafed species such as succulents, mandevillas, diplodemias These tough leaves don't show feeding damage as much
- Important to check these plants because they may have thrips but not show the damage

# Other thrips-prone plants (Not an exhaustive list!)

- Agerathemum
- Bidens
- Dahlia
- Draceanas
- Rudbeckia
- Verbena
- Bacopa
- Chrysanthemum

