## Thrips



### Western Flower Thrips, Frankliniella occidentalis

- ½ inch
- Approximately <sup>1</sup>/<sub>25</sub> inch long actual size
- Tubular shaped
- Adults with feathery wings
- Front end of the head is square with a pair of red eyes at the corners, and a pair of antennae in the middle

### Grape Thrips, Drepanothrips reuteri

• Appearance similar to western flower thrips



### **Early Season Shoot Damage**

- Early spring damage when shoots are less than 12 inches long
- Shorter internodes
- Stunted growth



Damage: observed in Mid-Season

 Misshapen basal leaves due to feeding on expanding leaves early in spring

Left: Normal shoot

**Right**: Early

spring thrip

the season

feeding damage observed later in



• Scarred canes with shorter internodes



#### Predators: Minute pirate bug nymph

- Nymphs are cream-colored and oval shaped with an orange spot in the abdomen
- Long piercing mouth parts
- As the name implies, they are very small but larger than thrips





Predators: Minute pirate bug adult *Orius tristicolor* 

 Adults have black and white pattern on wings



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Date	Insect Stage	What to look for
Budbreak through April	Adults and immatures	<ul> <li>Stunted shoot growth immediately after bud break</li> <li>At bud break watch for scarring or bronzing at the edge of the tiny, immature leaves. Peel back these leaves and with a hand lens look for thrips.</li> <li>If shoot growth is delayed due to cold weather, thrips damage may be more apparent.</li> <li>When shoots are short, inspect for thrips on the developing leaves at the tip of the shoot.</li> <li>When shoots can be bent without damage, sharply tap the tip of the shoot onto a hard white surface. Look for fast moving elongated insects.</li> </ul>