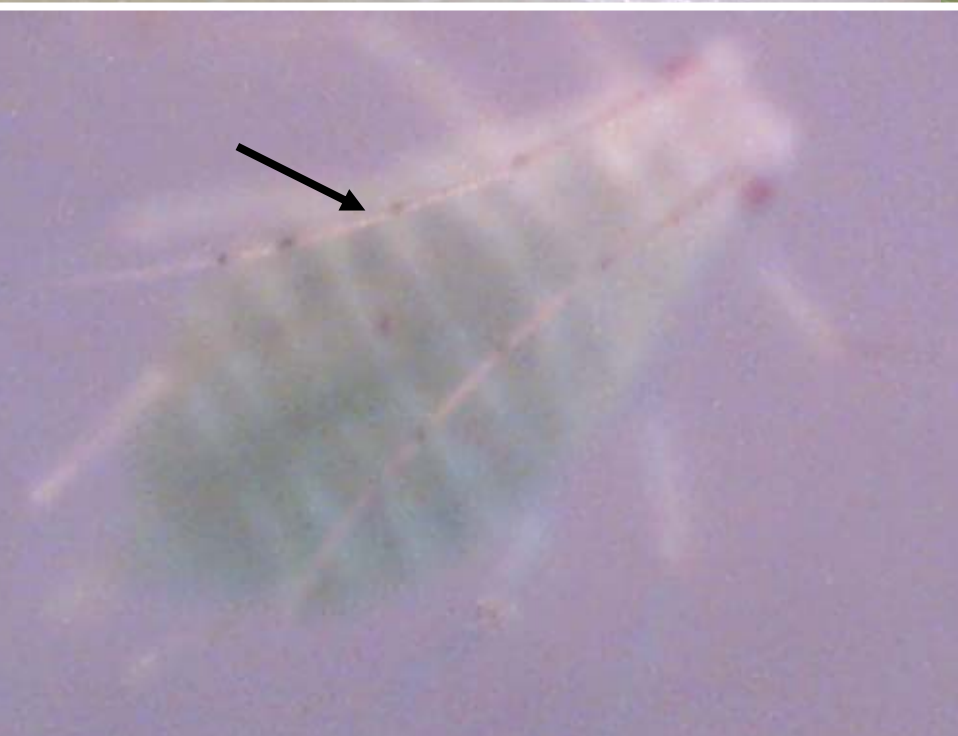




***Acyrtosiphon lactucae***

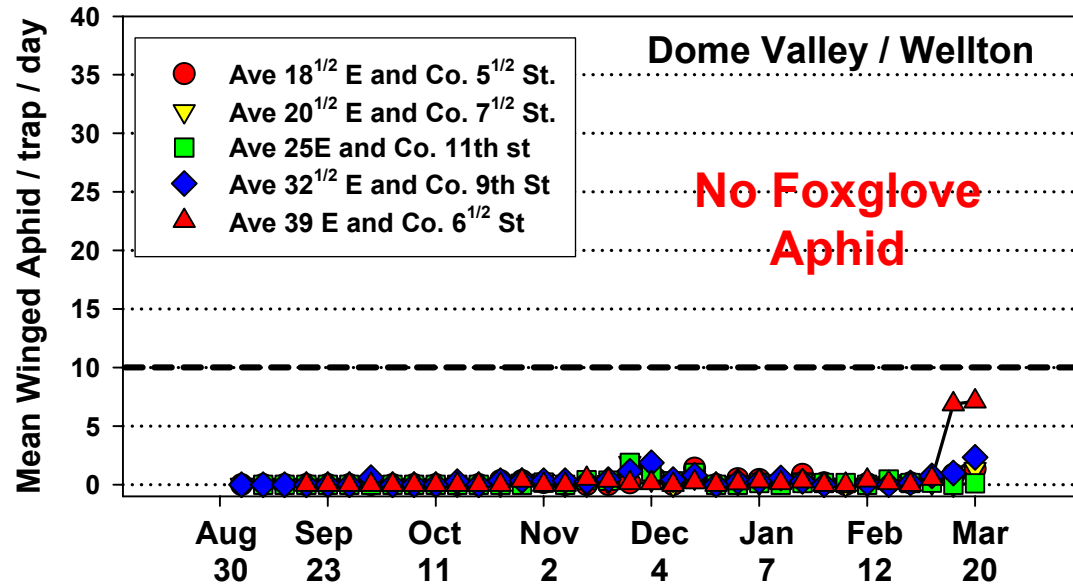
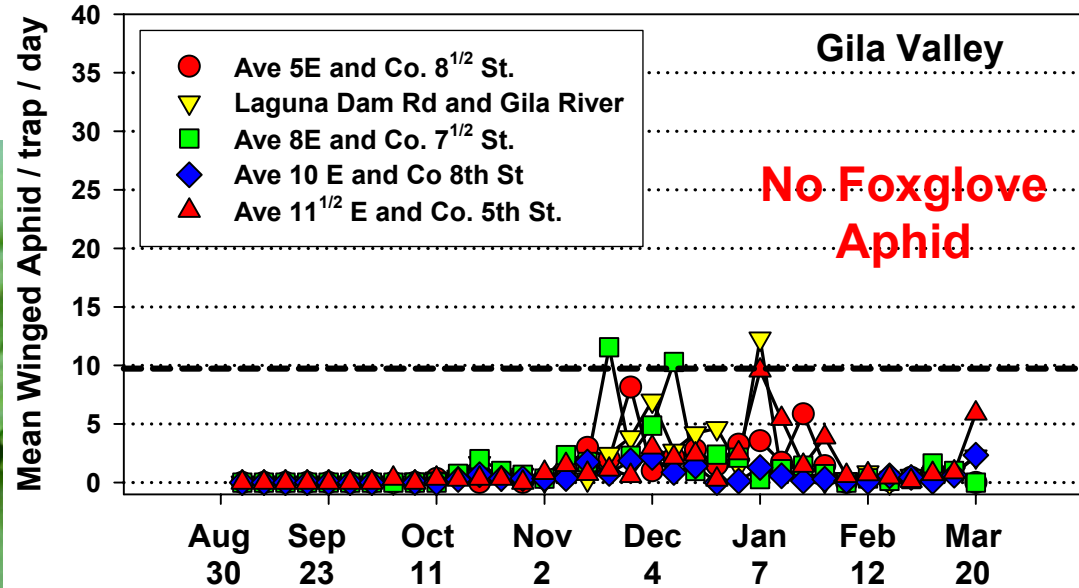




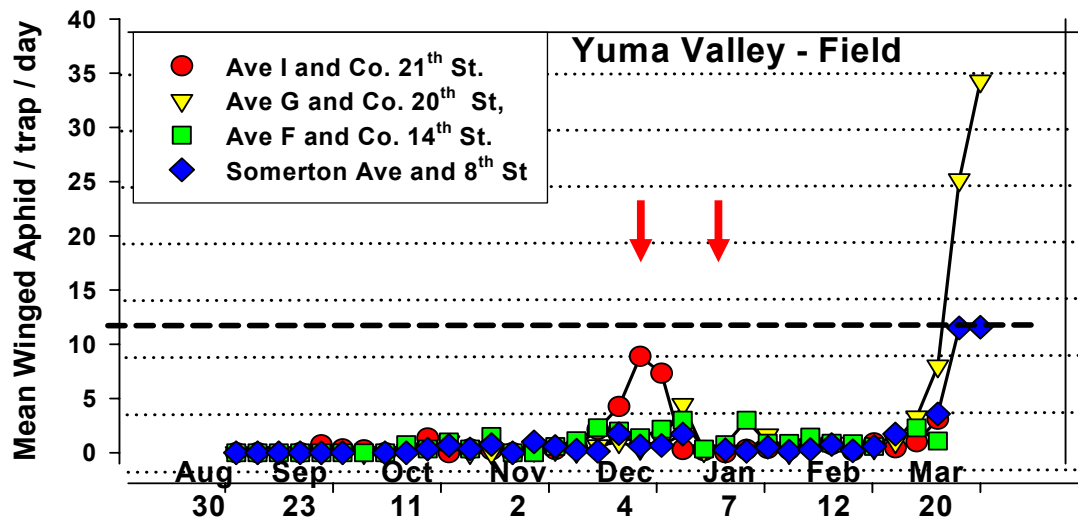
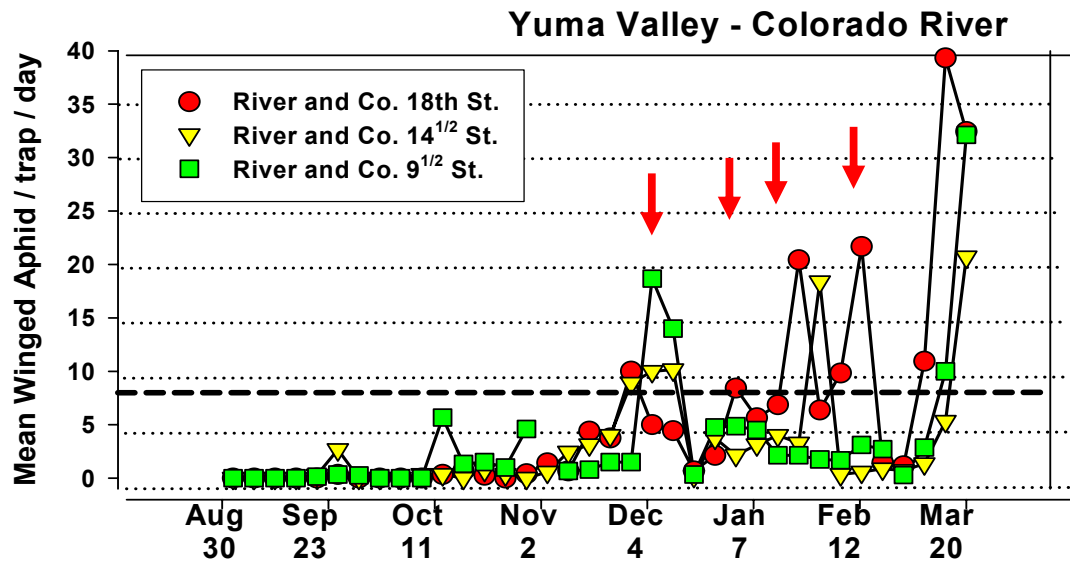
# Foxglove Aphid in Desert Lettuce

- **Native to Europe, has been recorded on crops in Western US since 1940's, including CA.**
- **Has a wide host ranges, but primarily a pest of potatoes and ornamentals in greenhouse production.**
- **Jul 1998 - Found infesting head lettuce in Salinas.**
- **Jan 1999 - Lettuce aphid found on lettuce in desert.**
- **Mar 2001 – Found an unidentifid aphid in untreated lettuce plots at YAC.**
- **Feb 2002 – Identified Foxglove in Yuma on untreated lettuce plots at YAC.**

# Sticky Trap Monitoring for Aphids 2002-2003



# Sticky Trap Monitoring for Aphids 2002-2003

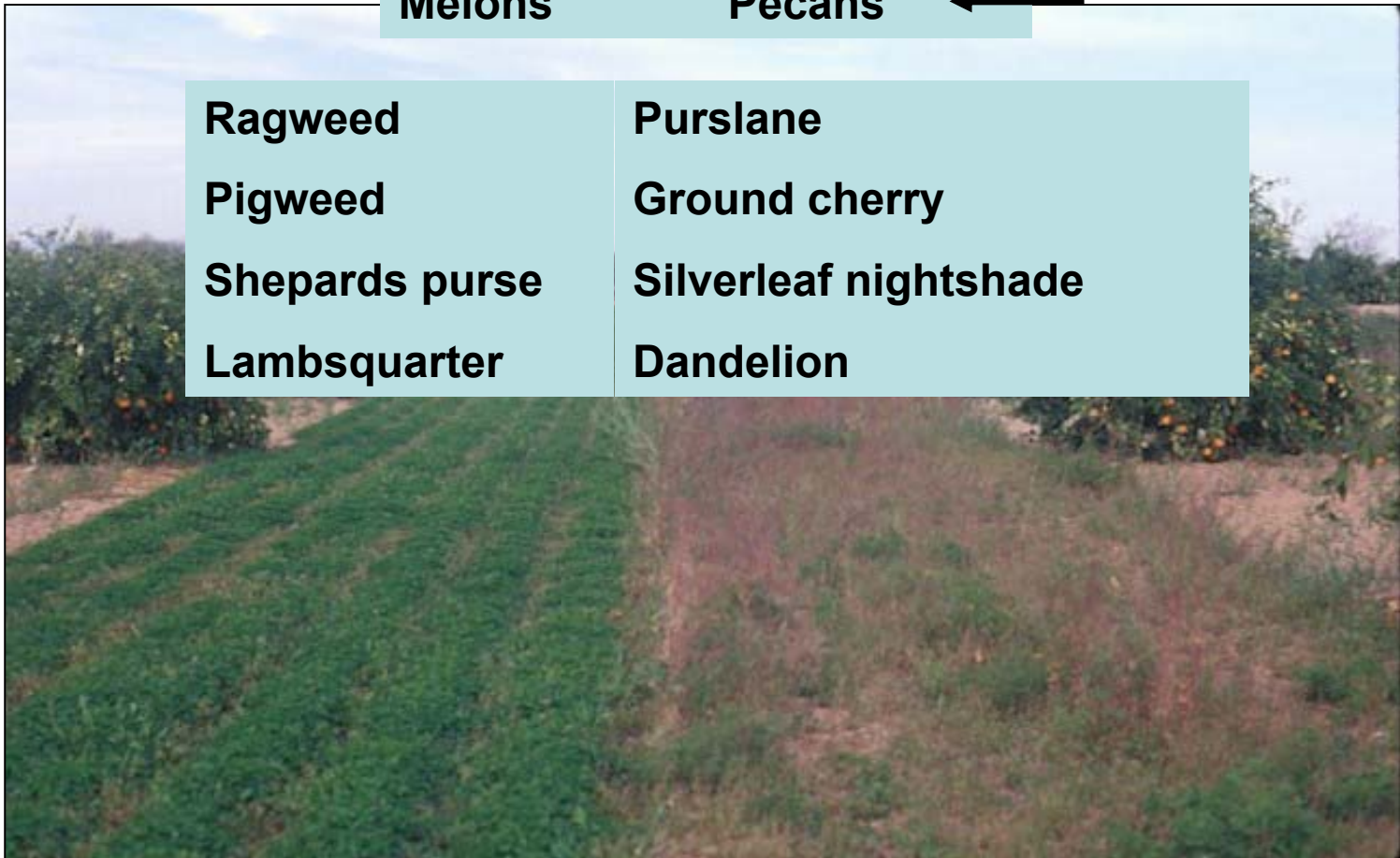


# Foxglove Aphid in Desert Lettuce

- **Nov 2002:** First Foxglove aphids found colonizing untreated head lettuce in Yuma Valley .
- **Jan 2003:** Light infestations on numerous untreated fields in Yuma Valley.
- **Feb 2003:** Found on organic lettuce in Bard, CA and Algodones, Mexico .
- **Feb 2003:** Found colonizing mature head lettuce and Romaine treated with Admire in Yuma Valley.
- **Winter 2004:** ?

# Will Foxglove Aphid Continue to be a Desert Pest?

	<b>Celery</b>	<b>Beans</b>
	<b>Brassicas</b>	<b>Peas</b>
→	<b>Citrus</b>	<b>Potato</b>
	<b>Melons</b>	<b>Pecans</b> ←



**Ragweed**

**Pigweed**

**Shepards purse**

**Lambsquarter**

**Purslane**

**Ground cherry**

**Silverleaf nightshade**

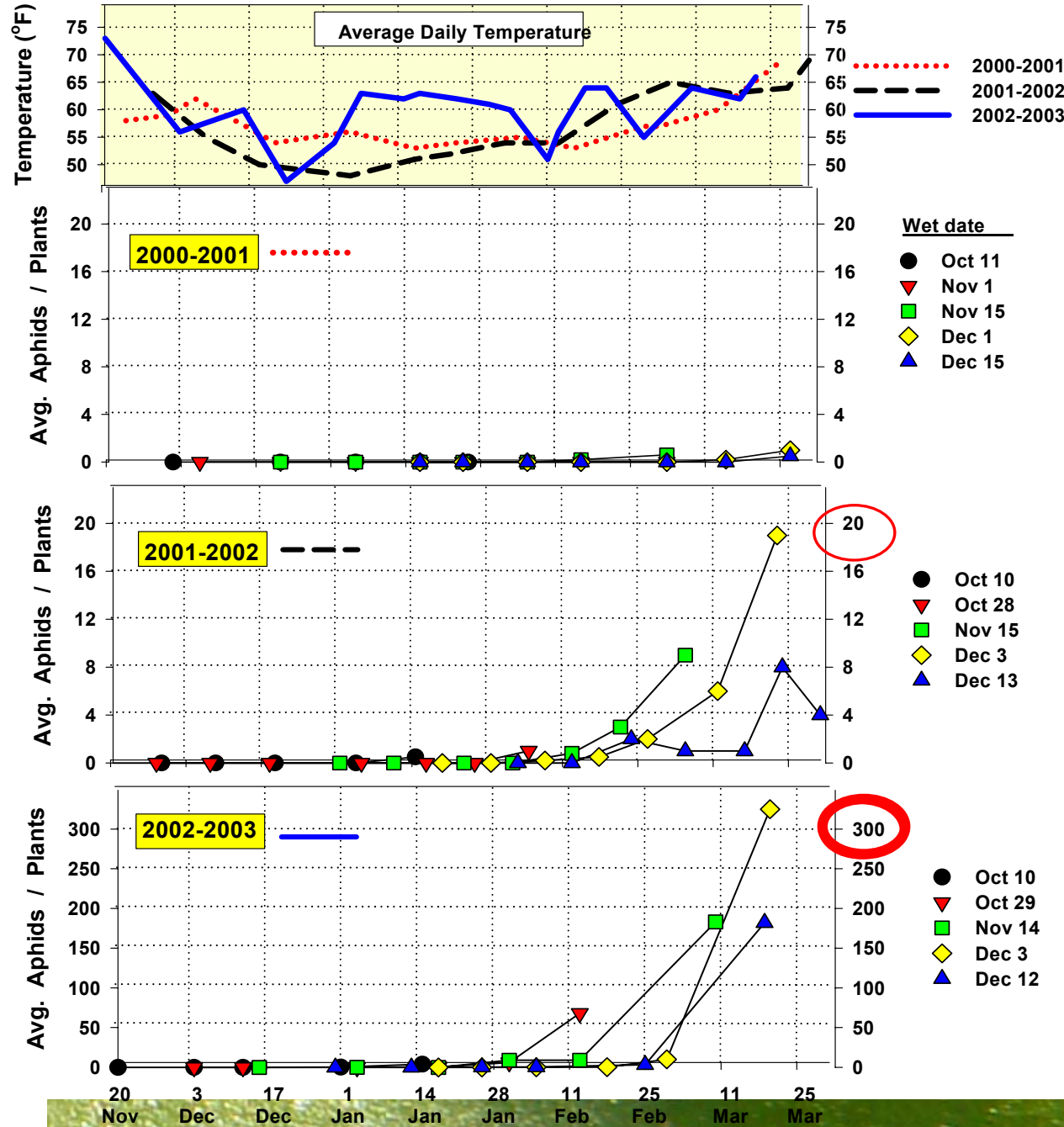
**Dandelion**



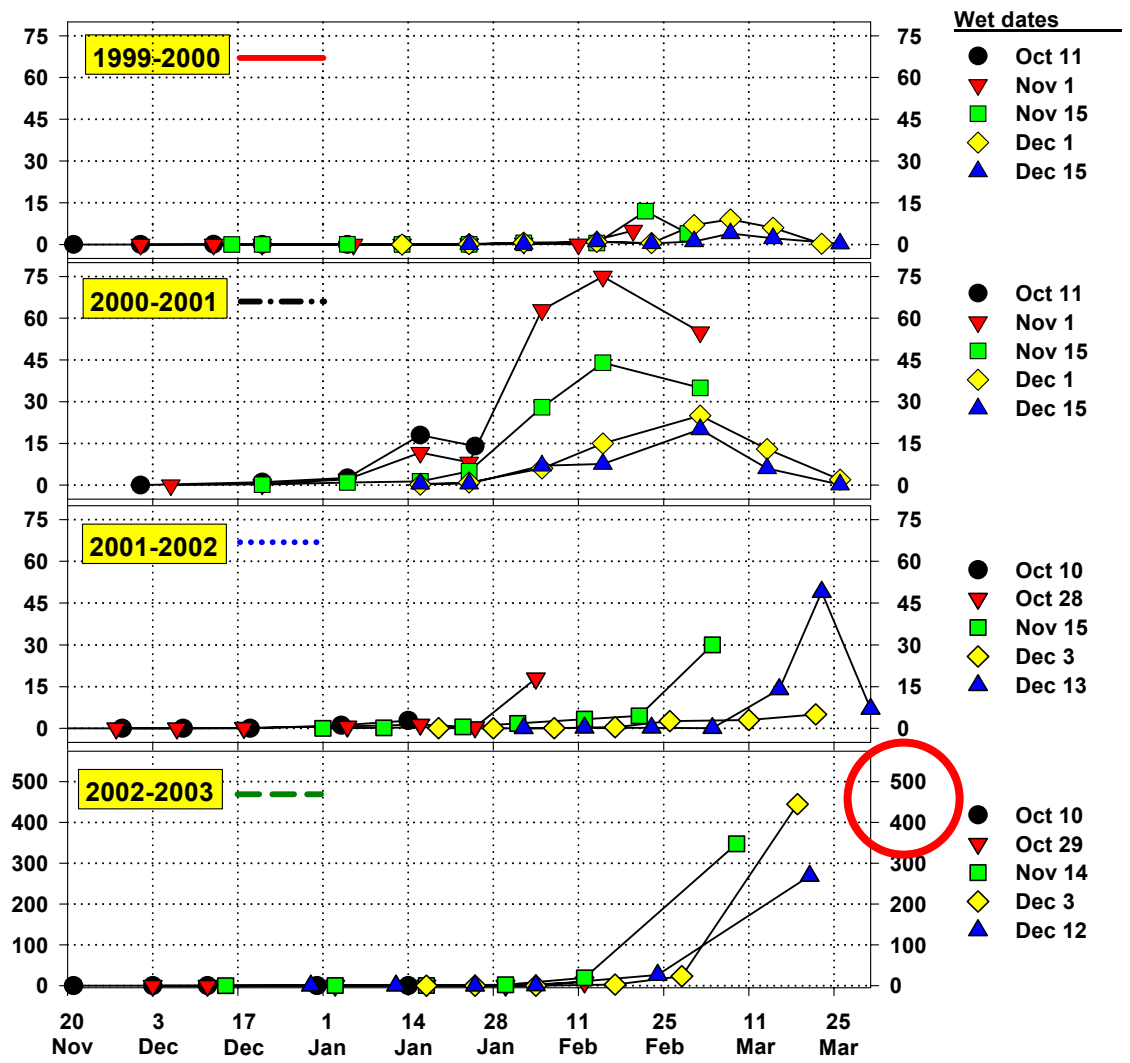
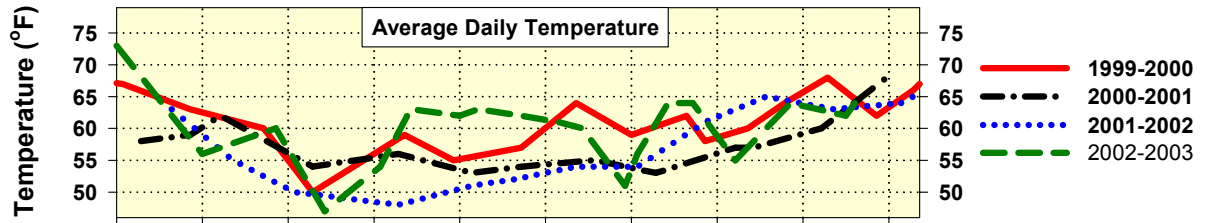


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# Foxglove Aphid in Head Lettuce



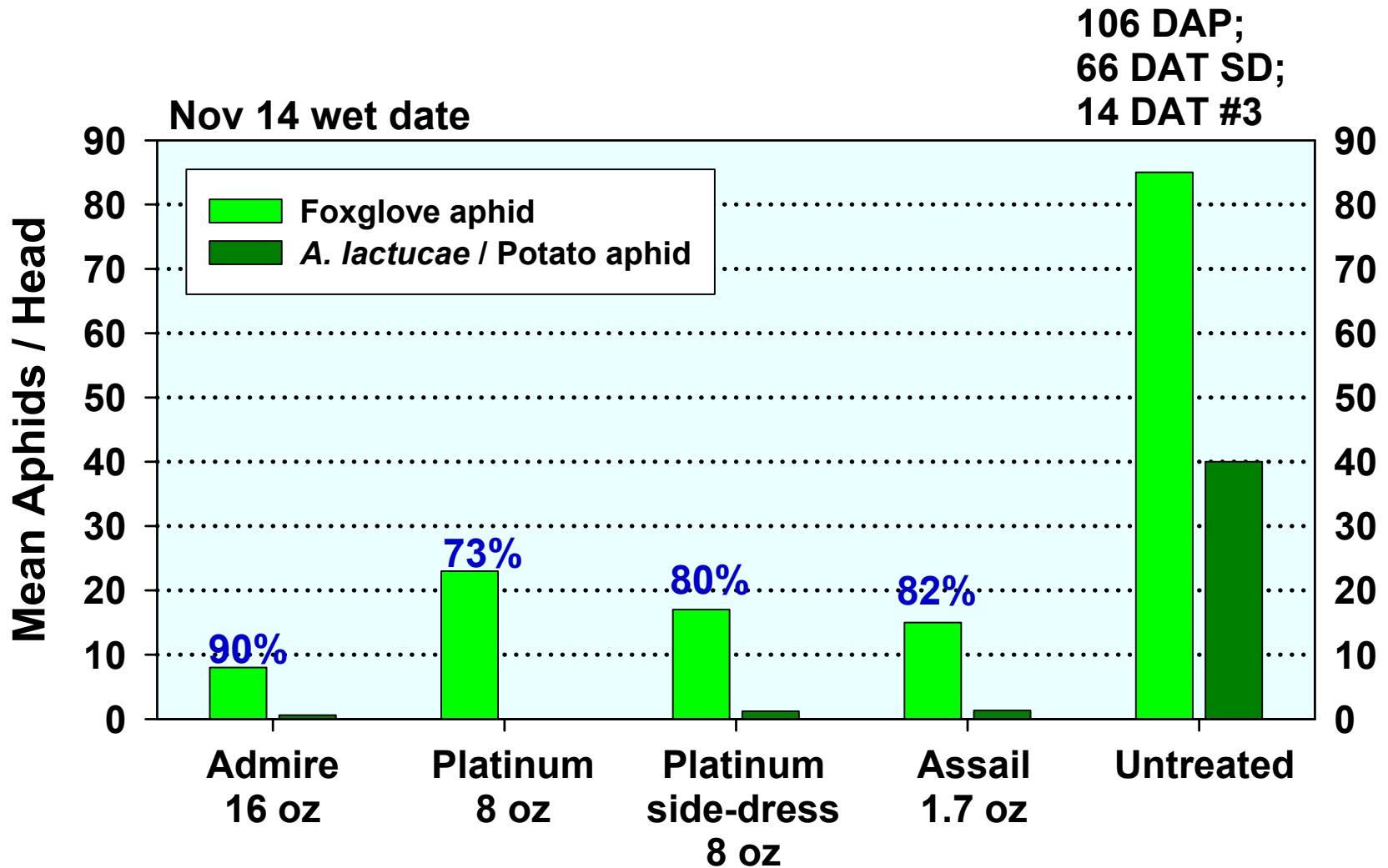
## Green Aphid Complex (Green Peach / Potato / *A. lactucae*)



# Comparison of Soil-applied Insecticides For Aphid Control in Head Lettuce



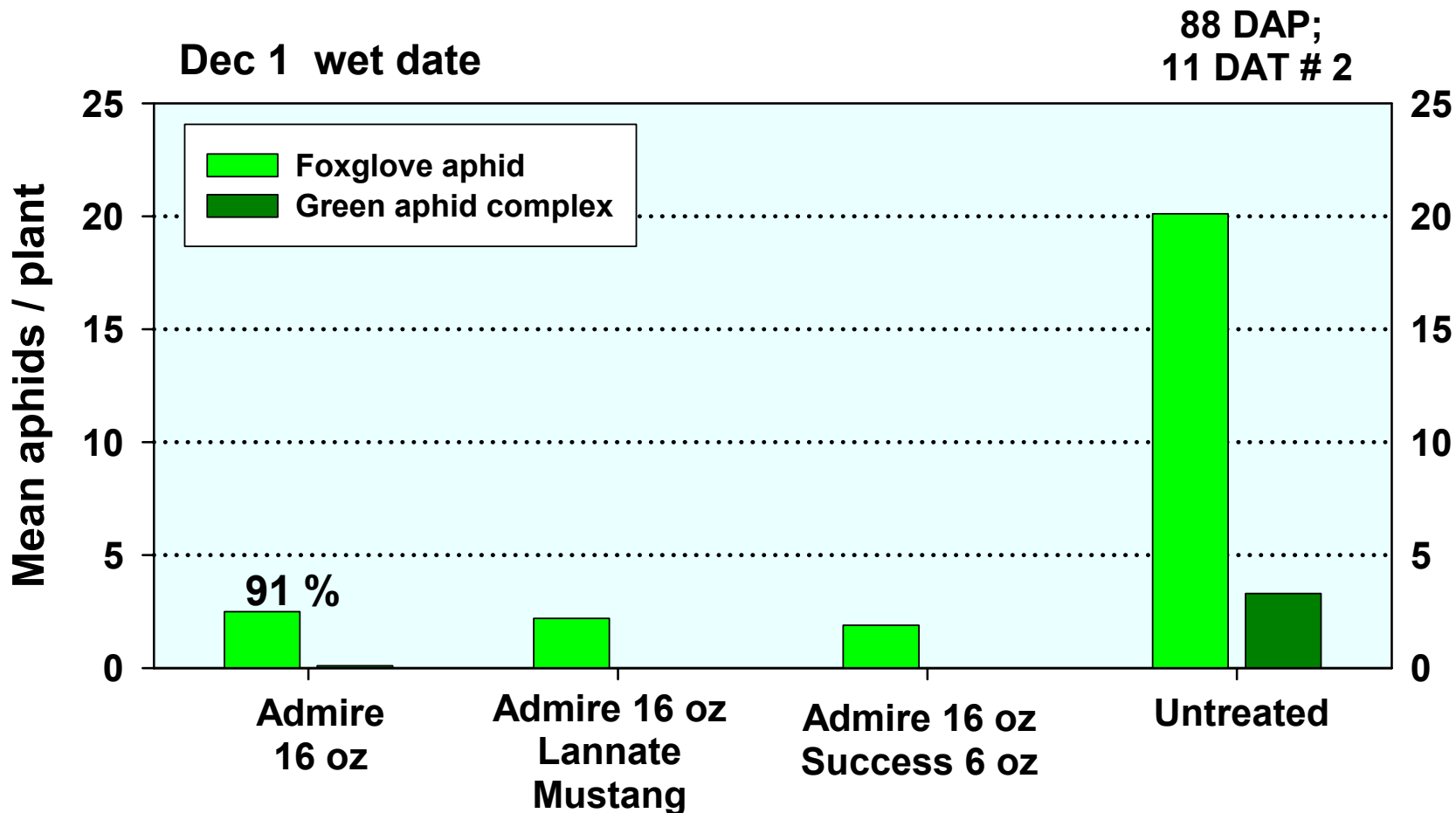
# Foxglove Control in Head Lettuce With Nicotinoids



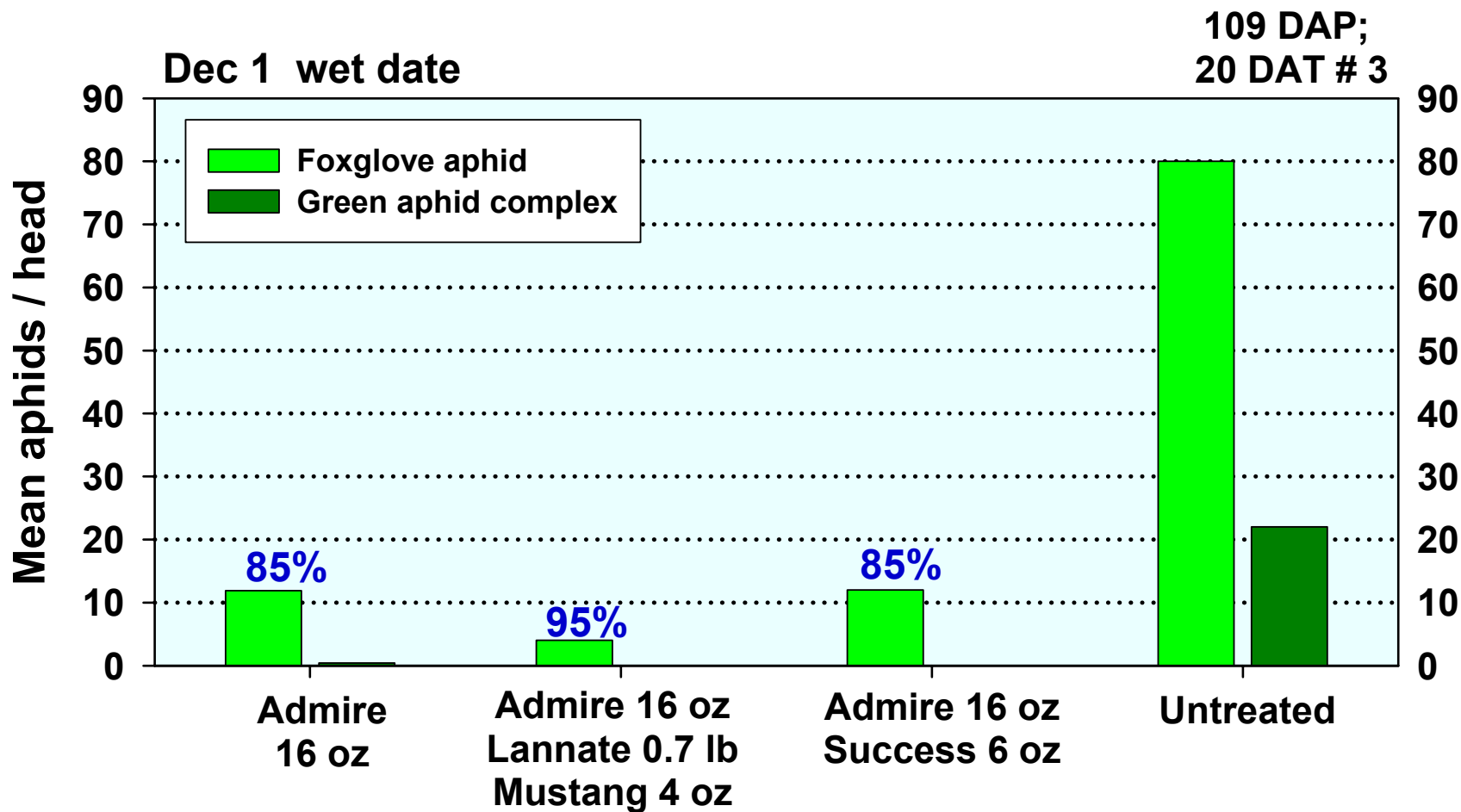
# Interactions between Aphid and Thrips Control in Head Lettuce



# Interactions between Aphid and Thrips Control in Head Lettuce

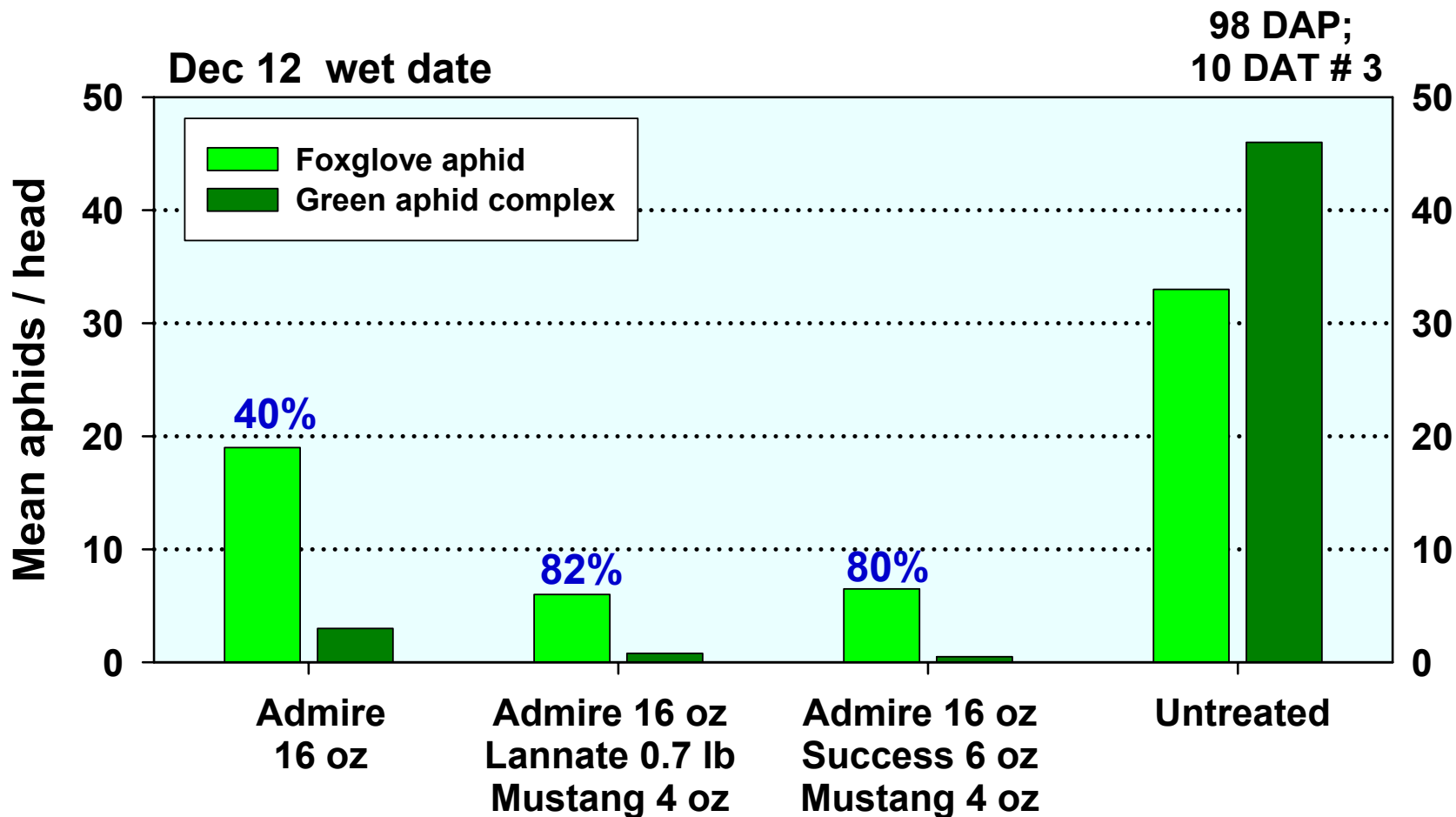


# Interactions between Aphid and Thrips Control in Head Lettuce





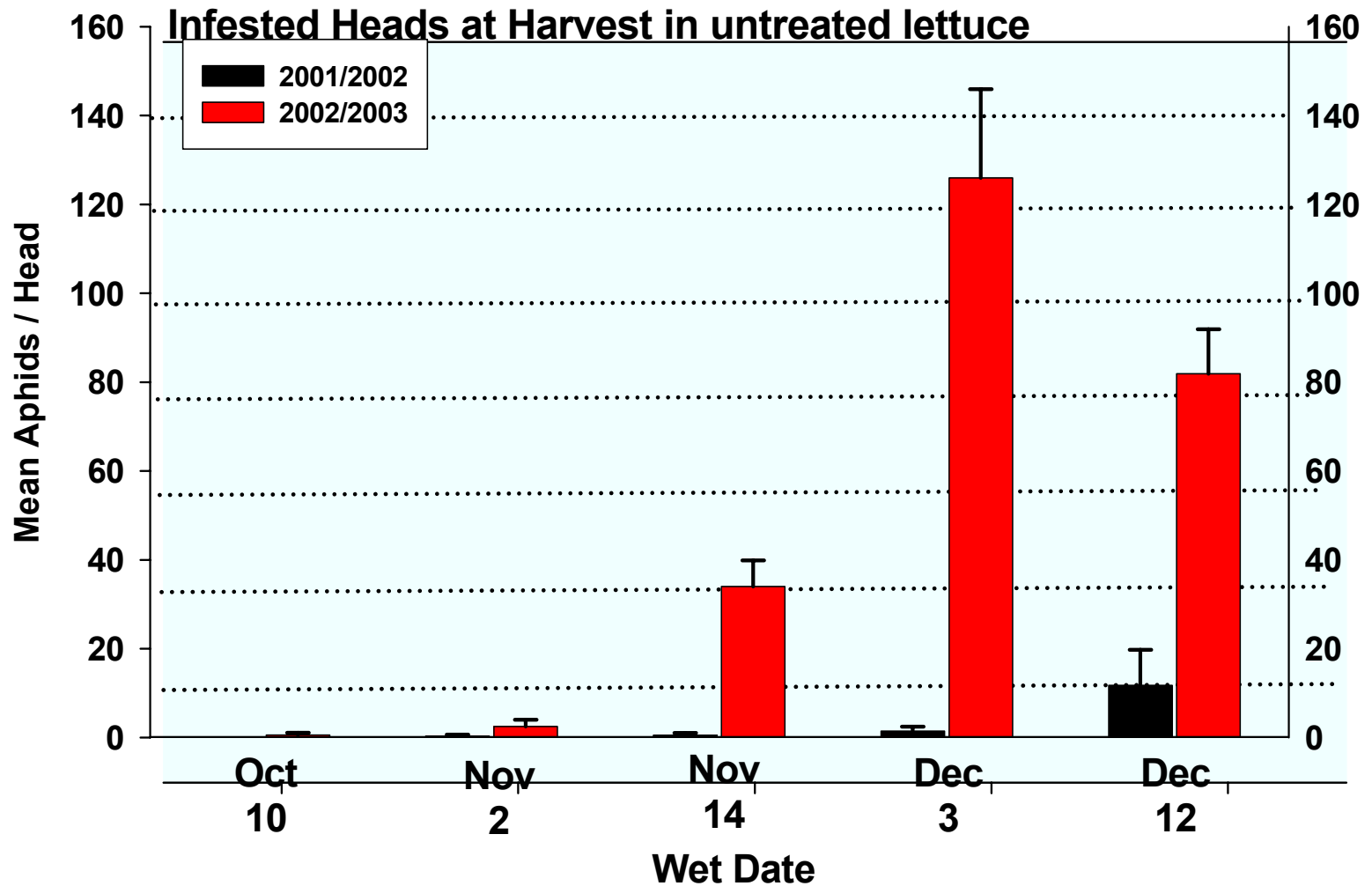
# Interactions between Aphid and Thrips Control in Head Lettuce



# Considerations for Foxglove Control in Desert Lettuce

- **Begin scouting for aphids in October; be aware of fields adjacent to citrus / houses.**
- **Consider closing the Admire-free window earlier : late October in Yuma Valley.**
- **Apply a minimum of 16 oz of Admire in October / early November plantings.**
- **Increase rates of Admire to 20 oz or > in mid November – December plantings**

# Foxglove Aphid Seasonal Contamination in Head Lettuce

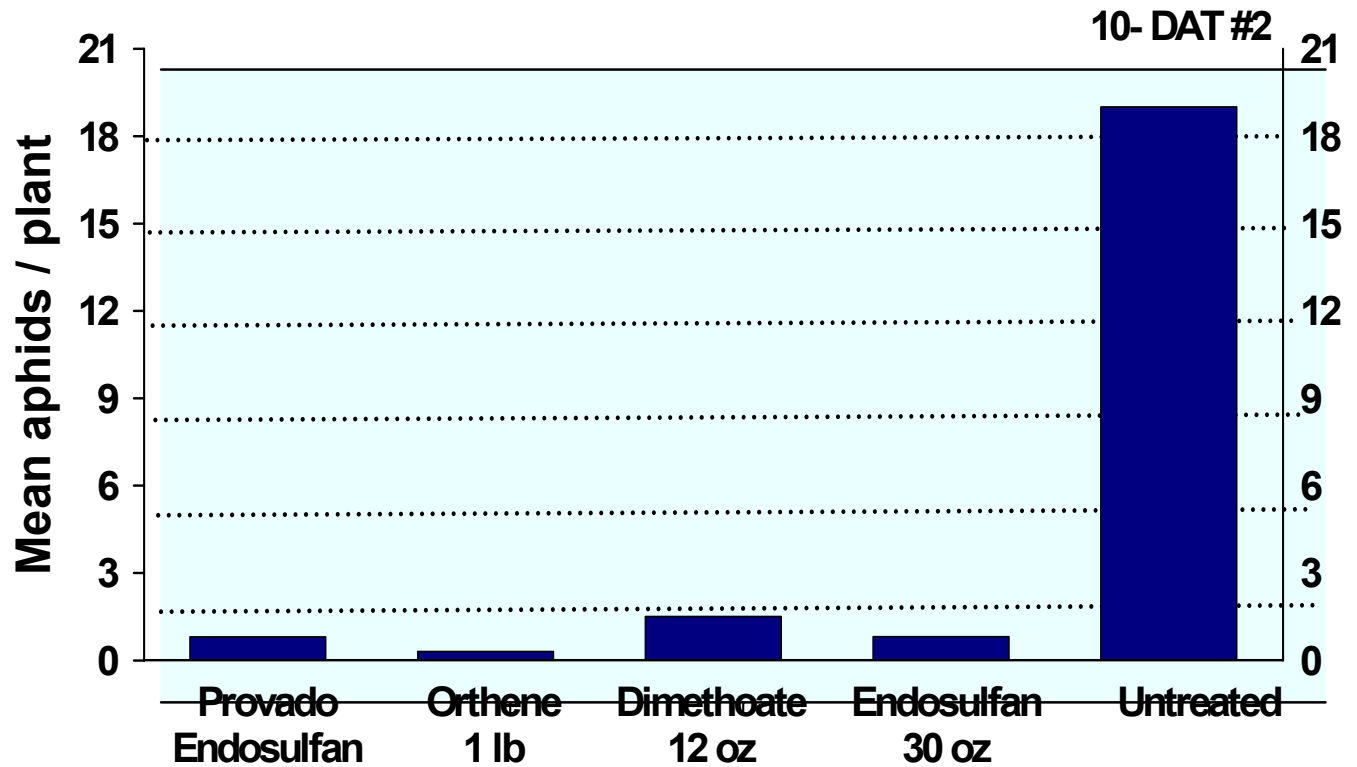


# Considerations for Foxglove Control in Desert Lettuce

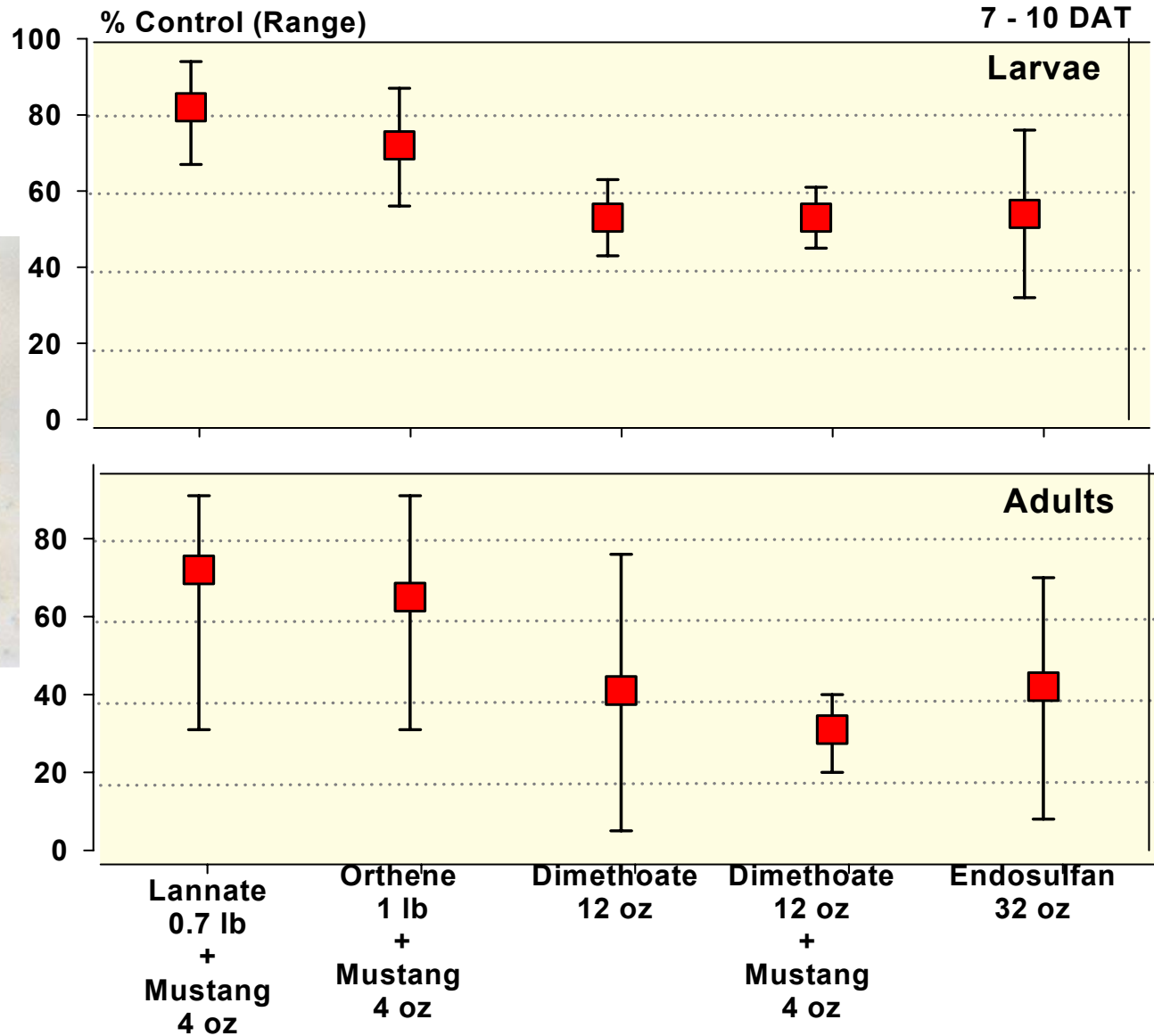
- **Begin scouting for aphids in November; be aware of fields adjacent to citrus / houses.**
- **Consider closing the Admire-free window earlier : late October in Yuma Valley.**
- **Apply a minimum of 16 oz of Admire in October / early November plantings.**
- **Increase rates of Admire to 20 oz or > in late plantings: mid November – December.**
- **Incorporate foliar aphicides into your thrips program – Orthene, dimethoate, endosulfan**

# Foliar Efficacy Against Foxglove Aphid in Desert Lettuce

YAC, Spring 2003



# Thrips Control in Head Lettuce



**[ag.arizona.edu/crops/](http://ag.arizona.edu/crops/)**

