Thrips Ecology and Management in Lettuce

Objectives
- Population Dynamics
- Sampling
- Damage
- Control
Population Dynamics

Onion Thrips
(4%)

Western Flower Thrips
(94%)
Thrips / trap / day

5 Years (1998-2003)

Dome Valley/ Wellton

Gila Valley

Yuma Valley

Aug 28 Sep 17 Oct 7 Oct 27 Nov 16 Dec 6 Dec 26 Jan 15 Feb 4 Feb 24 Mar 16 Apr 5
Thrips in Head Lettuce - Planting Dates
2002-2003

Mean Thrips / Plant

Sept 17 Oct 10 Oct 29 Nov 14 Dec 3 Dec 12

Avg. Temperature (°F)

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Mean Thrips / Plant

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Avg. Temperature (°F)
Absolute Sampling
Counting all thrips with a Plant Wash technique
Direct Visual Counts
Population Dynamics of Thrips in Head Lettuce 2003

The graph shows the population dynamics of thrips in head lettuce over different months, with data points indicating population numbers. The data is represented using different symbols for Beat Pan, Direct counts, and Plant Wash methods. The graphs illustrate the increase in thrip population from October 29th, with notable peaks in November 14th. The population numbers range from 0 to 1000.
Direct Visual Counts (n=27)

~ 12% of what was actually on plant

Direct counts (Total thrips / plant)

Plant Wash (Total thrips / Plant)

\[ Y = 24.5 + 8.3x \]

\[ R^2 = 0.73 \]
Beat Pan Counts (n=27)

~ 20% of what was actually on plant

\[
Y = -22.3 + 5.0x
\]

\[
R^2 = 0.85
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