Management of Alfalfa Hoppers in the Low Desert

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Leafhoppers

- Garden leafhopper: *Empoasca solana*
- Potato leafhopper: *E. fabae*
- Mexican leafhopper: *E. mexara*
Leafhoppers

• Damage

  • Sucking plant sap
  +
  • Hopper burning
  • Wedge-shaped Yellow or reddish coloration

  • Stunt plant growth

• May carry over to the next growth cycle
Three-cornered Alfalfa Hopper

- Buffalo Hopper
- Rarely cause significant damage
- Heat and/or water stressed plant are at greater risk of damage
- Damage caused by feeding and oviposition activity of the adult (girdle stems)
Treatments of alfalfa Hoppers’ efficacy trial at MAC in 2014

- Baythroid XL (2.8 oz / A)
- Endigo (4.35 oz / A)
- Warrior II (1.6 oz / A)
- Dimethoate 4E (1 pt / A)
- Sivanto (10.5 oz / A)
- Warrior II (1.44 oz/A) + Malathion8 (1pt/A)
- Beleaf 50 (2.28 oz / A)
- Beleaf 50 (2.85 oz / A)
- UTC
Potato Leafhoppers

Number of Potato Leafhopper / 5 sweeps

- BaythroidXL
- Sivanto
- Dimethoate
- Beleaf2.85oz
- WarriorII
- Endigo
- Warrior+Malation
- Beleaf2.28oz
- UTC

Phases:
- PH35DAT
- PH27DAT
- PH21DAT
- PH16DAT
- PH13DAT
- PH7DAT
Three-cornered Alfalfa Hopper

Number of three-cornered hopper / 5 sweeps

- BaythroidXL
- Sivanto
- Dimethoate
- Beleaf2.85oz
- WarriorII
- Endigo
- Warrior+Malation
- Beleaf2.28oz
- UTC

CH35DAT
CH27DAT
CH21DAT
CH16DAT
CH13DAT
CH7DAT

Legend:
- CH35DAT
- CH27DAT
- CH21DAT
- CH16DAT
- CH13DAT
- CH7DAT
Treated vs. untreated areas in commercial alfalfa field - Buckeye, AZ. (Baythroid XL 2.8 oz / acre)

Photo credit: Jason Rovey
Other 2015 alfalfa trials

• Phosphorus management

• Field application of Topguard fungicide for control of root rot in alfalfa
  – Field efficacy trial of 3 different rates Topguard terra™ in two locations

• Economic Threshold of Egyptian Alfalfa Weevil
Thanks