



# Sefina® Insecticide on Cotton Western Tarnished Plant Bug (*Lygus hesperus*)

## Strong on Targeted Pests, Gentle on Beneficials and Pollinators

- Rapid onset of action to stop feeding and protect yield
- Unique IRAC MOA (9D) for resistance management
- Gentle on beneficials for complete Integrated Pest Management



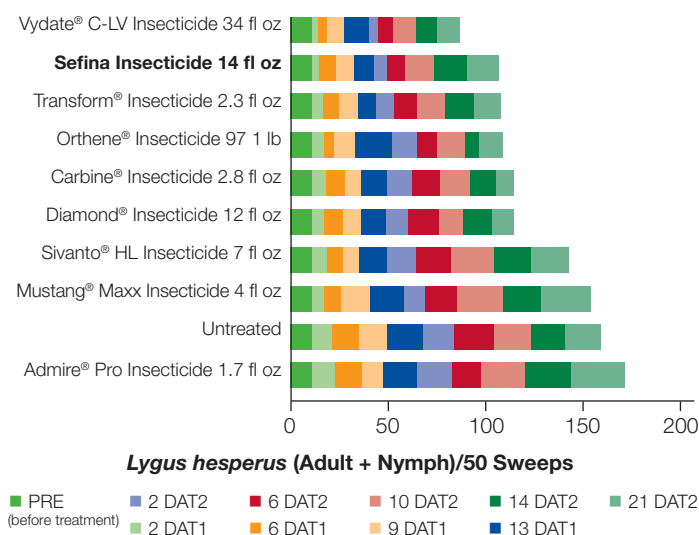
Aphids & Whitefly cause quality issues in cotton with production of honeydew. Secondary sooty mold grows on the honey dew deposits left on leaves and open bolls. Photo credits BASF.



Western Lygus can cause major yield impacts by feeding on squares. This leads to either square abortion or those bolls never open, decreasing harvestable seed cotton. Left photo credit BASF. Right photo credit Ian Grettenberger, University of California.



## *Lygus hesperus* Activity Versus Industry Standards



## Impact of Select Treatments on Total Beneficials (21 DAT2) and Spider Mites (16 DAT2) Calculated as Percent (%) of Untreated

	Sefina Insecticide	Carbine Insecticide	Sivanto HL Insecticide	Transform Insecticide	Orthene Insecticide
Beneficials vs Untreated	93%	82%	75%	48%	46%
Spider Mites vs Untreated	75%	124%	500%	324%	2210%

Ian Grettenberger, 2020. University of California Davis Western Lygus Insect Trial. Five Points, CA. Pima Cotton. First Application Aug 7, Second Aug 21. Select treatments for total beneficials (21 DAT2) and spider mites (16 DAT2) calculated as % of untreated. BASF sponsored testing.

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Technical Information Bulletin

# Incorporate Sefina® Insecticide for an Effective and Pollinator-Compatible Program to Manage Western Tarnished Plant Bugs, Aphids, and Whitefly

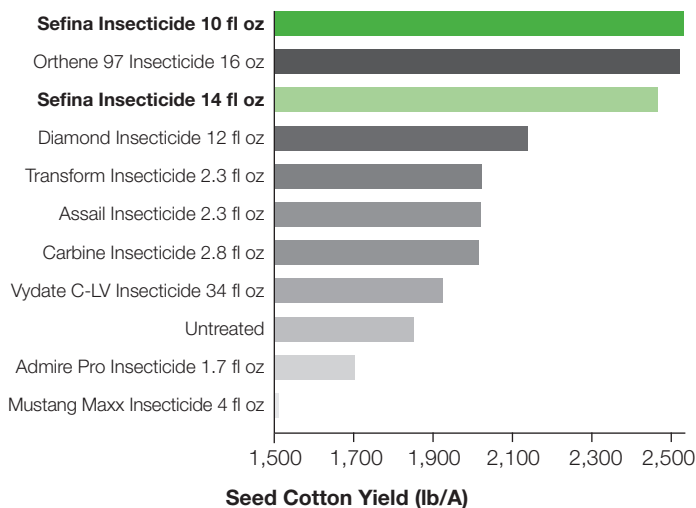
## Best Use Recommendations

- Apply Sefina insecticide at first sign of pest presence, and before population increases to damaging levels.
- Apply with sufficient water volume for proper coverage; use of spreading adjuvant may increase effectiveness.
- Pre-Harvest Interval: 7 days
- Minimum Retreatment Interval: 7 days
- REI: 12 hours

Target Pest	Use Rate (fl oz/A)	
	Single Application	Season Total
Silverleaf Whitefly Sweet Potato Whitefly	14	28
Aphids (including): Cotton/Melon aphid	3	
<b>Suppression ONLY*</b> <i>Lygus hesperus</i>	10-14	

\* - 2(ee) label effective in select states.

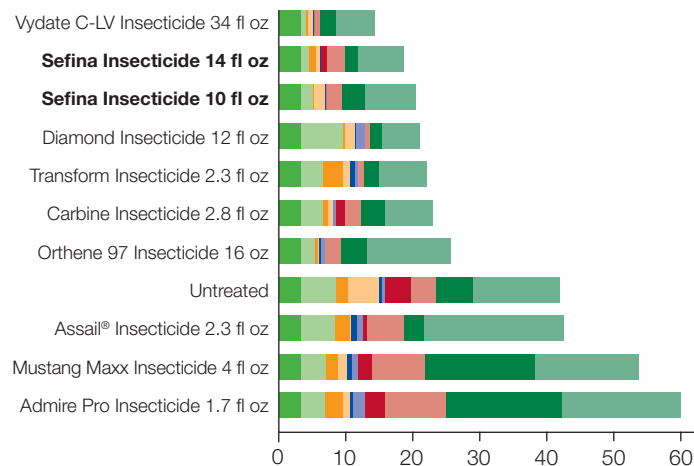
## Insecticide Impact on Cotton Yield



Ian Grettenberger. 2021. University of California Davis Western Lygus Insect Trial. Five Points, CA. Pima Cotton. First Application made early Aug with second application 14 days later. BASF sponsored test.

## Sefina Insecticide Activity Versus Industry Standards

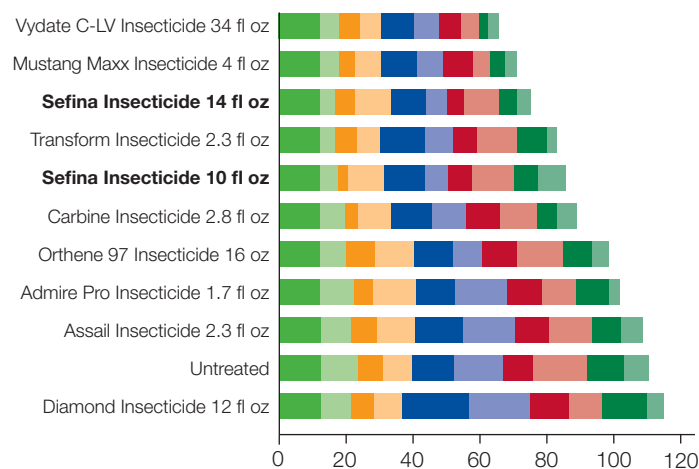
### Nymph Activity



### Lygus hesperus (Nymph)/50 Sweeps

■ PRE (before treatment) ■ 2 DAT1 ■ 6 DAT1 ■ 9 DAT1 ■ 13 DAT1 ■ 2 DAT2 ■ 6 DAT2 ■ 9 DAT2 ■ 13 DAT2 ■ 20 DAT2

### Adult Activity



### Lygus hesperus (Adult)/50 Sweeps

■ PRE (before treatment) ■ 2 DAT1 ■ 6 DAT1 ■ 9 DAT1 ■ 13 DAT1 ■ 2 DAT2 ■ 6 DAT2 ■ 9 DAT2 ■ 13 DAT2 ■ 20 DAT2

Ian Grettenberger. 2021. University of California Davis Western Lygus Insect Trial. Five Points, CA. Pima Cotton. First Application made early Aug with second application 14 days later. BASF sponsored test.



To learn more about crop protection products from BASF, visit [www.agproducts.basf.us](http://www.agproducts.basf.us)

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