



2020 Sesame Leafroller Insecticide Efficacy Trial – Hidalgo County, TX

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- Pest: Sesame Leafroller, *Antigastra catalaunalis*
- Crop: Sesame, 3-leaf stage at application
- Location: Hidalgo Co., TX
- Plot Size: 60 ft. x 4 rows
- Experimental Design: Randomized Complete Block; 4 Replications
- Information: Sprayed with hand sprayer delivering 15 gal/acre at ca.30 psi on 12 June 2020. Temperature 85°F, wind N 5 mph.
- Phytotoxicity: None noted
- Evaluation: Pre-treatment counts conducted on 12 June. Average of 6.8 larvae/ 10 stems (68% infestation). 10 plants randomly selected in each plot and carefully observed for live larvae and pupae 15 June (3 DAT) and 19 June (7 DAT). At 14 DAT all control plots had 0 larvae and/or pupae, indicating that leafroller populations had “cycled out”.
DAT = Days After Treatment



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Treatment Date: 12 June 2020

Treatment	Mean # larvae/ 10 plants 15 June (3 DAT)	Mean # pupae/ 10 plants 15 June (3 DAT)	Mean # larvae + pupae/ 10 plants 15 June (3 DAT)	Mean # larvae/ 10 plants 19 June (7 DAT)	Mean # pupae/ 10 plants 19 June (7 DAT)	Mean # larvae + pupae/ 10 plants 19 June (7 DAT)
Untreated	6.5a	1.8a	8.3a	4.0a	1.5ab	5.5a
Mustang Maxx @ 4.0 oz/acre	2.5b	1.0ab	3.5b	1.8b	1.8a	3.5a
Prevathon @ 8.0 oz/acre	0.5c	0.8ab	1.3c	0.3b	0.5bc	0.8b
Prevathon @ 12.0 oz/acre	0.3c	0.5b	0.8c	0.3b	0.5bc	0.8b
Blackhawk @ 1.1 oz/a**	0.0c	0.5b	0.5c	0.3b	0.0c	0.3b
Blackhawk @ 2.2 oz/a**	0.0c	0.3b	0.3c	0.0b	0.3c	0.3b

** Please note that Blackhawk is not currently registered for use on sesame. All pesticides must be used in a manner consistent with current labels.

Means within a column (treatment date) followed by the same letter are not significantly different ($P>0.05$; PROC ANOVA; Mean comparison by LSD [SAS 9.4]). Reference to specific products is provided for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Texas A&M University. **All pesticide use must be consistent with current labels.**