

# Management of pepper weevil, *Anthonomus eugenii* Cano (Coleoptera: Curculionidae) in 'Jalapeno' peppers



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# Various insecticides used in weekly rotation

Treatment number	Insecticides	Rate [Oz]/acre
1	HGW86 10SE	20.5
2	Actara 25WG	4
	Vydate L	32
	HGW86 10SE	13.5
	Actara 25WG	4
3	Actara 25WG	4
	Vydate L	32
	HGW86 10SE/ Asana XL	13.5/ 9.6
	Actara 25WG	4
4	Actara 25WG	4
	Vydate L	32
	HGW86 10SE	13.5
	Assail 70WP	1.1
	Actara 25WG	4
5	Untreated control	

Insecticides were applied weekly in an order as shown in the table. Application of insecticides was performed by using a CO<sub>2</sub> propelled backpack sprayer with two nozzles/bed at 30 PSI delivering 50 GPA.

Evaluation of treatments were conducted by recording pepper weevil adults and infested fruits on randomly selected five plants per treatment plot of 40 feet long two beds.

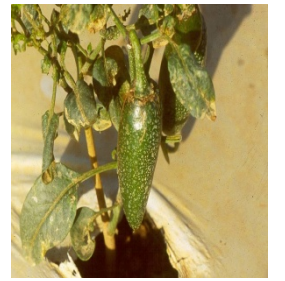
# Mean numbers of pepper weevil adults/5 plants of 'Jalapeno' pepper



Treatments	Rate[oz.]/acre	16 April	23 April	30 April	7 May	Average
HGW86 10SE	20.5	0.50a	0.25a	1.50b	2.25bc	<b>1.35bc</b>
Actara 25WG	4.0	0.25a	0.25a	0.75bc	3.50ab	<b>1.65b</b>
Vydate L	32.0					
HGW86 10SE	13.5					
Actara 25WG	4.0					
Actara 25WG	4.0	0.25a	0.00a	0.25c	0.75d	<b>0.40c</b>
Vydate L	32.0					
HGW86 10SE/ Asana XL	13.5/ 9.60					
Actara 25WG	4.0					
Actara 25WG	4.0	0.25a	0.00a	0.75bc	2.75a-c	<b>1.30bc</b>
Vydate L	32.0					
HGW86 10SE	13.5					
Assail 70WP	1.10					
Actara 25WG	4.0					
Actara 25WG	4.0	0.25a	0.25a	0.00c	1.25cd	<b>0.60bc</b>
Vydate L	32.0					
Asana XL	1.10					
Actara 25WG	4.0					
AVaA						
Check		0.25a	0.50a	5.50a	5.75a	<b>3.55a</b>

Means within a column followed by a letter do not differ significantly (P > 0.05; DMRT)

# Mean numbers of infested fruits/5 plants of 'Jalapeno' pepper



Treatments	Rate[oz.]/acre	16 April	23 April	30 April	7 May	Average
HGW86 10SE	20.5	0	1.00b	10.00b	20.25b	11.45b
Actara 25WG	4.0	0	1.25b	10.50b	8.25c	7.00bc
Vydate L	32.0					
HGW86 10SE	13.5					
Actara 25WG	4.0					
Actara 25WG	4.0	0	0.75b	3.75c	2.25d	2.00c
Vydate L	32.0					
HGW86 10SE/	13.5/					
Asana XL	9.60					
Actara 25WG	4.0					
Actara 25WG	4.0	0	0.50b	5.00c	8.50c	4.95bc
Vydate L	32.0					
HGW86 10SE	13.5					
Assail 70WP	1.10					
Actara 25WG	4.0					
Actara 25WG	4.0	0	0.50b	3.25c	8.25c	3.55bc
Vydate L	32.0					
Asana XL	1.10					
Actara 25WG	4.0					
AVaA						
Check		0	5.25a	15.50a	46.25a	31.35a

Means within a column followed by a letter do not differ significantly (P > 0.05; DMRT)

# Conclusion

- Significant reduction in the mean number of adults was observed in all insecticide treatments as compared to the untreated control on the last three sampling dates.
- Significantly fewer infested buds, flowers and fruits were recorded on all treated plants than the untreated control plants.