

Whitefly Management in in Desert Melon Crops, 2015



Relative Efficacy Index

Product	IRAC MOA	Adults	Nymphs	Comments*
Vydate, Lannate	1A	••	•	Provides knockdown control (3-5 days) of adults when tank-mixed with a pyrethroid Bifentrihi or Danitol
Orthene	1B	••	•	Tank mix with a pyrethroid for enhanced adult knockdown. Can only be used on cauliflower, celery and head lettuce.
Bifenthrin	3	••	•	Numerous generics available; tank mix with another product (Methomyl/ Vydate) for best control; will also control cabbage loopers and beetles.
Danitol	3	••	•	Tank mix with another product (Methomyl/ Vydate) for best control; will also control loopers, will also control cabbage loopers and beetles.
Imidacloprid	4A	•	•••	Generics available; Soil: use highest rate for residual nymph control (0.375 lb ai/ac); may not provide adequate adult control; does not provide consistent performance as post-emergence side dress.
Assail	4A	•••	•••	Tank-mix with a pyrethroid for improved adult knockdown. Use at high rates.
Venom/Scorpion	4A	•••	•••	Foliar: tank mix with pyrethroid for enhanced adult knockdown; Soil: effective as at-planting or post-plant side dress/chemigation treatment on melons. Use at high rates.
Sequoia	4C	•••	••	Apply at top of label rate; can provide knockdown of adults (1-3 d) and 7 d residual of nymphs.
Voliam Flexi	4A+28	••	••	Foliar: Contains chlorantraniliprole and thiamthoxam; will provide good knockdown of adults; will also control loopers and beet armyworms; Use at higher rates;
Durivo, Platinum	4A+28	••	••	Soil use only: Contains chlorantraniliprole; will control loopers and beet armyworms; Use at higher rates; effective as at-planting but has shown to provide marginal residual control in produce crops due to high water solubility
Knack	7	•	•••	Apply at higher rates for residual control; slow acting. Not economically effective against adults. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
Fulfill	9B	••	••	Apply at low-densities for best results; Tank mix for best control of adults; slow acting. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
Courier	16	•	•••	Apply at higher rates for residual control; slow acting. Not economically effective against adults. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
Vetica	16+28	•	•••	Contains flubendiamide; apply at high rates for nymph control; will also control worms; slow acting. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
Oberon	23	•	•••	Apply at higher rates for residual control; slow acting. Movento is not registered on melons. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
Exirel	28	•••	•••	Apply at higher rates for longer residual control; a little slow; may take up to 3 days to observed adult knockdown. Will also control worms and leafminers. Use of a penetrating adjuvant is recommended.

* Always consult the label before applying any of these products on melons.

* Check Environmental Hazards statement on label for toxicity to pollinators before applying.

•••	Good residual control
••	Marginal residual control
•	Poor control