

Whitefly Management in Leafy Vegetables, Cole Crops and Melons- Fall 2013



Relative Efficacy Index

Product	IRAC MOA	Adults	Nymphs	Comments*
Vydate, Lannate	1A	••	•	Provides good, knockdown control (3-5 days) of adults when tank-mixed with a pyrethroid.
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, Venom or Assail) for best control; will also control loopers, flea beetles and bagrada bugs.
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.
Platinum	4A	•	•••	Soil: use highest rate for residual whitefly control (11 oz); effective as post-plant, side dress or chemigation through drip.
Assail	4A	•••	•••	Tank-mix with a pyrethroid for improved adult knockdown. Use at high rates.
Venom	4A	•••	•••	Foliar: tank mix with pyrethroid for enhanced adult knockdown; Soil: effective as at-planting or post-plant side dress/chemigation treatment on melons. Less residual control should be expected on produce crops due to high water solubility. Use at high rates.
Closer	4C	•••	••	Apply at top of label rate; can provide good 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	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.
Movento, 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.
Coragen	28	•	••	Foliar and Soil: Should provide suppression of nymphs, tank mix with Venom/imidacloprid for improved nymphal control.

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Good residual control

Marginal residual control

Poor control

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

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

