

Whitefly Management in Spring Melons - 2020



COLLEGE OF AGRICULTURE
AND LIFE SCIENCES
COOPERATIVE EXTENSION
Yuma Agricultural Center

Relative Efficacy Index

Product	IRAC ¹ MOA	Adults	Nymphs	
Vydate, Lannate	1A	••	•	Provides knockdown control (1-3 days) of adults when tank-mixed with a pyrethroid Bifenthrin or Danitol
Pyrethroids	3	••	•	Numerous proprietary and generic products available; tank mix with another product (Methomyl/ Vydate) for best control; 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.
Platinum	4A	•	•••	Soil: use highest rate for residual whitefly control; can be effective as post-plant, side dress or chemigation through drip, marginal residual control when applied at-planting in produce crops due to high water solubility
Assail	4A	•••	•••	Tank-mix with a pyrethroid for improved adult knockdown. Use at high rates (5.3 oz of Assail 30SG); Relatively safe against honeybees
Venom, Scorpion	4A	•••	•••	Foliar: tank mix with pyrethroid for enhanced adult knockdown; Foliar applications provide excellent adult knockdown at high rates. Soil: effective as at-planting or post-plant side dress/chemigation treatment on fall melons. Use at high rates.
Sivanto	4D	•••	•••	For soil use only on cantaloupes/honeydews; apply at 28 oz at-plant. 21 D PHI; Foliar and soil uses on watermelons. Apply at higher label rate (10-14 oz) as foliar spray; can provide good knockdown of adults (7 d
Durivo	4A+28	••	••	Soil: 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
Cormoran	4A+15	••	••	Contains acetamiprid+novaluron. Has fair-good residual activity against nymphs and adults. PHI: 7 days.
Knack	7	•	•••	Apply at higher rates for residual control; slow acting. Does not provide adult knockdown control; Will eventually suppress adults numbers by cycling out the immature population.
PQZ	9B	•••	•••	Provides excellent knockdown (1-3 days) and residual control of adults and nymphs; Provides good suppression of CYSDV; Relatively safe against honeybees; PHI: 1 day
Sefina	9D	•••	•••	Provides good knockdown (1-3 days) and residual control of adults and nymphs; Provides good suppression of CYSDV; Relatively safe against honeybees; PHI: 0 day
Courier	16	•	•••	Apply at higher rates for residual control (13.6 oz/ac); 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 (8.5 oz); slow acting. 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 (15-20 oz); a little slow; may take up to 3 days to observed adult knockdown, but should provide good residual control of nymphs and adults. Use a penetrating adjuvant.
Minecto Pro	28+6	•••	•••	Apply at high rate (10 oz); a little slow; may take up to 3 days to observed adult knockdown, but should provide good residual control of nymphs/adults. Use a penetrating adjuvant. Active against spider mites.
•••	Good residual control			
••	Fair-Marginal residual control			
•	Poor control			

¹ IRAC Mode of Action - for more info go to - <http://www.irac-online.org/>

* always consult the label before applying any of these products, particularly when pollinators are present.