

Whitefly Management in Spring Melons - 2019



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 oa 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 |
| 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. Use of a penetrating adjuvant is recommended. |
| 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. Use of a penetrating adjuvant is recommended. Active against spider mites. |

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| ••• | 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