

# Quick Reference Guide to Citrus Insecticides and Miticides

M.E. Rogers, P. A. Stansly, L. L. Stelinski and J. D. Yates

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Products recommended in the Florida Citrus Pest Management Guide and their effects on selected pests and their natural enemies.

Pesticide active ingredient	Product Brand Name Examples	Restricted entry interval (REI)	Pre-harvest interval (PHI)	Target pest								Effects on natural enemies
				Mode of Action <sup>1</sup>	Psyllid	Leafminer	Rust Mites	Spider Mites	Root Weevil Adults	Scale Insects	Mealybugs	
Abamectin + oil	Agri-mek 0.15EC	12 hours	7 days	6	++	+++R	+++R	+	+(oil)	+(oil)	+(oil)	medium
Acetamiprid	Assail 70WP	12 hours	7 days	4	-	+++R	-	-	?	+	++	medium
Aldicarb	Temik 15G	48 hours	0; 30 days (lemons)	1A	+++R	-	+++R	+++	-	-	-	low
Carbaryl	Sevin XLR Plus	12 hours	5 days	1A	++	-	+	-	+++R	+++R	+	high
Chlorpyrifos	Lorsban 4E	5 days	21 days	1B	+++R	+	+	-	+	+++R	+++R	high
Diflubenzuron	Micromite 80WGS	12 hours	21 days	15	++	+++R	+++R	-	+++R	-	-	low
Dimethoate	Dimethoate 4E	48 hours	15-45 days	1B	+++	-	-	-	?	+++R	+	high
Fenbutatin oxide	Vendex 50WP	48 hours	7 days	12	-	-	+++R	+++R	-	-	-	low
Fenpropathrin	Danitol 2.4EC	24 hours	1 day	3	+++R	-	+	+	+++R	-	+	high
Imidacloprid (soil)	Admire Pro	12 hours	0	4	+++R	+++R	-	-	+	++	+	low
Imidacloprid (foliar)	Provado 1.6F	12 hours	0	4	+++R	+	-	-	-	++	+	medium
Petroleum oil	numerous	12 hours	0	NR	+	++R	++R	++	+(eggs)	++R	+	low
Phosmet	Imidan 70W	24 hours	7 days	1B	+++R	-	+	?	+++R	?	?	medium/high
Pyridaben	Nexter Miticide	12 hours	7 days	21	-	?	+++R	+++R	-	-	-	high
Spinosad	Spintor 2SC	4 hours	1 day	5	-	+++R	-	-	-	-	-	low
Spinetoram	Delegate WG	4 hours	1 day	5	+++R	+++R	-	?	?	?	?	low
Spirodiclofen	Envidor 2SC	12 hours	7 days	23	-	-	+++R	+++R	?	-	-	low
Spirotetramat	Movento 240SC	24 hours	1 day	23	+++R	?	+++R	?	?	+++	?	low
Sulfur	numerous	12 hours	0	NR	-	-	+++R	+++	-	?	?	high (short term)
Thiamethoxam	Actara 25 WG	12 hours	0	4	+++R	+	-	-	-	++	+	medium
Thiamethoxam	Platinum 75 SG	12 hours	0	4	+++R	+++R	-	-	+	++	+	low
Zeta-cypermethrin	Mustang Insecticide	12 hours	1 day	3	+++R	-	-	?	+++	?	?	high

<sup>1</sup>Mode of action class for citrus pesticides from the Insecticide Resistance Action Committee;

NR = no resistance potential (R) = product recommended for control of pest in Florida Citrus Pest Management Guide

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(+++)= good control of pest    (++)= short-term control of pest    (+)= low levels of pest suppression    (-)= no observed control of pest    (?)= insufficient data available

# Products labeled for application at reduced volume either by ground or aerial application

ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS				Ground Applications		Aerial Applications	
Product	EPA Reg. #	Restricted entry interval (REI)	Pre-harvest interval (PHI)	Product Rate / A	Minimum Spray Volume / A	Product Rate / A	Minimum Spray Volume / A
Agri-mek 0.15 EC	100-898	12 hours	7 days	10-20 fl oz	Sufficient coverage	5 - 20 fl oz <sup>1</sup>	10 gallons <sup>1</sup>
Danitol 2.4 EC <sup>2</sup>	59639-35 SLN FL-090003	1 day	1 day	16-21 fl oz	2 gallons	16 - 21 fl oz	5 gallons
Delegate WG	62719-541 SLN FL-090009	4 hours	1 day	3-6 oz	2 gallons	3 - 6 oz	10 gallons
Dimethoate 4E <sup>4</sup>	34704-207-67760	2 days	15-45 days	0.5-1 pts	5 gallons	1 - 2 qts	5 gallons
Lorsban 4E	62719-220	5 days	21-35 days	2-12 pts	10 gallons	2 - 12 pts	2 gallons
Malathion 5	9779-5	12 hours	7 days	1.25 – 2 pts	3 gallons	1.25 - 2 pts	1 gallon
Micromite 80 WGS	400-487 SLN FL-090010	12 hours	21 days	6.25 oz	2 gallons	6.25 oz	5 gallons <sup>3</sup>
Mustang Insecticide	279-3126 SLN FL-090011	12 hours	1 day	4.3 fl oz	2 gallons	4.3 fl oz	10 gallons
Sevin XLR	264-333	12 hours	5 days	1.5 – 3 qts	Sufficient coverage	1.5 - 3 qts	10 gallons

<sup>1</sup> Aerial applications of Agri-mek 0.15EC are only labeled for citrus leafminer control.

<sup>2</sup> The use of spray adjuvants with Danitol 2.4EC is prohibited by label.

<sup>3</sup> Aerial applications of Micromite 80WGS cannot be made within 1,000 feet of bodies of water.

<sup>4</sup> Additional dimethoate products with similar use patterns may be available.

Additional citrus pest management information can be found in the Florida Citrus Pest Management Guide available online at <http://www.crec.ifas.ufl.edu/extension/pest/index.htm>

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2. Michael E. Rogers, assistant professor, Department of Entomology, Citrus REC, Lake Alfred, Florida; Philip A. Stansly, professor, Department of Entomology, Southwest Florida REC; Lukasz L. Stelinski, assistant professor, Department of Entomology, Citrus REC, Lake Alfred, Florida; Jamie D. Yates, coordinator for canker and greening extension education, Citrus REC, Lake Alfred, Florida; Cooperative Extension Service, Institute of Food and Agricultural Sciences; University of Florida; Gainesville, FL 32611.

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