

# Quick Reference Guide to Citrus Insecticides and Miticides<sup>1</sup>

Products recommended in the Florida Citrus Production 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								Negative 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	++	+++	+++	+	+ (oil)	+ (oil)	+ (oil)	moderate
Beta-cyfluthrin	Baythroid XL	12 hours	0	3A	+++	?	?	?	?	?	?	high
Carbaryl	Sevin XLR Plus	12 hours	5 days	1A	++	-	+	-	+++	+++	+	high
Chlorpyrifos	Lorsban Advanced	5 days	21 days—foliar	1B	+++	+	+	-	++	+++	+++	high
Cyantraniliprole (soil)	Verimark	4 hours	1 day	28	+++	+++	-	-	+	-	-	moderate
Cyantraniliprole (foliar)	Exirel	12 hours	1 day	28	+++	+++	-	-	+	?	?	moderate
Diflubenzuron	Micromite 80WGS	12 hours	21 days	15	++ (nymphs)	++	++	-	++ (eggs)	-	-	low
Dimethoate	Dimethoate 4E	10 days	15 or 45 days	1B	+++	-	-	-	?	+++	+	high
Fenbutatin oxide	Vendex 50WP	48 hours	7 days	12B	-	-	+++	+++	-	-	-	low
Fenpropathrin	Danitol 2.4EC	24 hours	1 day	3A	+++	-	+	+	+++	-	+	high
Fenproximate	Portal	12 hours	3 days	21A	+++ (nymphs)	-	++	++	-	-	+	moderate

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

NR = no resistance potential

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

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Flupyradifurone	Sivanto 200SL	12 hours	1 day (foliar)	4D	++	?	?	?	?	?	?	?	low
Imidacloprid (foliar)	Admire Pro	12 hours	0	4A	++	+	-	-	-	++	+	+	moderate
Methoxyfenozide	Intrepid 2F	4 hours	1 day	18	-	+++	-	-	-	-	-	-	low
Petroleum oil	numerous	12 hours	0	NR	+	++	++	++	+	+	+	+	low
Phosmet	Imidan 70W	24 hours	7 days	1B	+++	-	+	?	+	+	?	?	moderate/high
Pyridaben	Nexter Miticide	12 hours	7 days	21A	-	?	+++	+++	-	-	-	-	high
Spinetoram	Delegate WG	4 hours	1 day	5	+++	+++	-	?	?	?	?	?	low
Spirodiclofen	Envidor 2SC	12 hours	7 days	23	-	-	+++	+++	?	-	-	-	low
Spirotetramat	Movento MPC	24 hours	1 day	23	+++ (nymphs)	?	+++	?	?	+	+	+	low
Sulfur	numerous	24 hours	0	NR	-	-	+++	+++	-	?	?	?	high (short term)
Thiamethoxam (foliar)	Actara 25 WG	12 hours	0	4A	+++	+	-	-	++	++	+	+	moderate
Tolfenpyrad	Apta	12 hours	14 days	21A	+++	-	++	++	+	+	+	+	high
Zeta-cypermethrin	Mustang Insecticide	12 hours	1 day	3A	+++	-	-	-	+	+	-	-	high

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**Additional citrus pest management information can be found in the Florida Citrus Production Guide available online at <http://www.crec.ifas.ufl.edu/resources/production-guide/>**