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Quick Reference Guide to Citrus Insecticides and Miticides[1]

ENY-854
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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								Effects on Natural Enemies
				Mode of Action[1]	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)	moderate
Beta-cyfluthrin	Baythroid XL	12 hours	0	3A	+++	?	?	?	?	?	?	high
Carbaryl	Sevin XLR Plus	12 hours	5 days	1A	++	–	+	–	+++, R	+++, R	+	high
Chlorpyrifos	Lorsban Advanced	5 days	21 days—foliar 28 days—soil	1B	+++, R	+	+	–	++	+++, R	+++, R	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	+++, R (nymphs)	+++, R	+++, R	–	++, R (eggs)	–	–	low
Dimethoate	Dimethoate 4E	10 days	15 or 45 days	1B	+++	–	–	–	?	+++, R	+	high
Fenbutatin oxide	Vendex 50WP	48 hours	7 days	12B	–	–	+++, R	+++, R	–	–	–	low
Fenpropathrin	Danitol 2.4EC	24 hours	1 day	3A	+++, R	–	+	+	+++, R	–	+	high
Fenproxymate	Portal	12 hours	3 days	21A	+++, R (nymphs)	–	++	++	–	–	+	moderate
Flupyradifurone	Sivanto 200SL	12 hours	1 day (foliar)	4D	+++	?	?	?	?	?	?	low

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