



Quick Reference Guide to Citrus Insecticides and Miticides

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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 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) | 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 |

¹Mode 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 ¹ | 10 gallons ¹ |
| Danitol 2.4 EC ² | 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 ⁴ | 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 ³ |
| 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 |

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

² The use of spray adjuvants with Danitol 2.4EC is prohibited by label.

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

⁴ 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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