








CITRUS CROP CARE GUIDE - EAST

Syngenta is committed to helping citrus growers produce the highest-quality crop possible. Our goal is to aid Eastern citrus growers in producing higher yields, while maintaining tree health year after year. This brochure is designed to provide a snapshot of the Syngenta portfolio.

FUNGICIDE					
PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Abound® fungicide provides reliable disease control, allowing plants to better reach their full genetic yield potential, producing higher potential yields and premium crops. With broad-spectrum activity, Abound fits into almost any disease management program.</p>	4 hours	0 days	12 – 15.5 fl oz/A	92.3 fl oz/A/season Do not apply more than 1.5 lb a.i./A/season of azoxystrobin-containing products. No more than 2 sequential applications	Alternaria leaf and fruit spot, citrus black spot, Diplodia stem-end rot, greasy spot, melanose, Penicillium decays, Phomopsis stem-end rot, postbloom fruit drop, scab, sweet orange scab
 <p>Amistar® Top fungicide is a broad-spectrum product containing two active ingredients. It has preventative, systemic and curative properties and is recommended for the control of many important plant diseases, including many leaf spots and powdery mildews.</p>	12 hours	0 days	15.4 fl oz/A	61.5 fl oz/A/year Do not apply more than 0.5 lb a.i./A/year of difenoconazole-containing products Do not apply more than 1.5 lb a.i./A/year of azoxystrobin-containing products	Alternaria leaf spot, Anthracnose, black spot, greasy spot, greasy spot rind blotch, melanose, Phomopsis stem-end rot, post-bloom fruit drop, scab
 <p>Miravis® Top fungicide is custom-built with one of the highest-performing SDHI molecules available to protect yield and ROI potential.</p>	12 hours	0 days	13.7 fl oz/A Anthracnose and post bloom fruit drop: 15.2 fl oz/A	60.9 fl oz/A/year	Albinism, Alternaria leaf and fruit spot, black spot, Didodia stem-end rot, melanose, Phomopsis stem-end rot, scab, sweet orange scab

FUNGICIDE





PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
<p> Orondis®</p> <p>Orondis® fungicide contains the active ingredient oxathiapiprolin, a real game-changer for improved root health, helping growers hit a home run against diseases caused by Oomycete fungi in citrus. Oxathiapiprolin brings a paradigm shift in active ingredient use rate compared to other fungicides. In addition to high intrinsic activity, oxathiapiprolin has a novel mode of action and is not cross-resistant to any other fungicide.</p>	4 hours	0 days	Soil Application: 2.4 – 9.6 fl oz/A Foliar Application: 1.2 – 2.4 fl oz/A	Soil Application: 9.6 fl oz/A maximum application rate, 19.2 fl oz/A maximum seasonal use rate Foliar Application: 2.4 fl oz/A maximum application rate, 2.4 fl oz/A maximum seasonal use rate Two soil applications or one foliar application can be made each year Minimum application interval of 30 days Make no more than 2 sequential applications before rotating to a fungicide with a different mode of action Do not use in citrus nurseries Do not follow soil applications of oxathiapiprolin containing products with foliar applications of oxathiapiprolin containing products.	Soil Application: brown rot, citrus foot rot, gummosis, root rot, trunk canker Foliar Application: brown rot
<p> Revus®</p> <p>End the fight with damaging pathogens by protecting your citrus greenhouse plants with Revus® fungicide. Revus consistently helps produce quality trees by defending against Phytophthora root rot for non-bearing citrus grown in a greenhouse. For high performing disease control you can count on, the answer is Revus.</p>	4 hours	365 days	Citrus: 8 fl oz/A Non-bearing citrus in a greenhouse: 8-16 fl oz/100 gal	Do not apply more than 16 fl oz/100 gallons per application. Do not apply for than 32 fl oz of product/A/season (0.52 lb a.i./A/year). Use Revus preventively to control the germinating spores of <i>Phytophthora</i> . Apply as a drench 2 to 4 times a year during root flushes to protect the new root growth and the crown of the plant Only for use in non-bearing citrus grown in the greenhouse for control of <i>Phytophthora</i> root rot	Phytophthora root rot (<i>Phytophthora spp.</i>)

FUNGICIDE					
PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>When citrus crops demand a granular fungicide, Ridomil Gold® GR fungicide is the answer. Applied as a banded or broadcast application, Ridomil Gold GR helps to maintain root health and vigor, which mitigates the effects of Huanglongbing (citrus greening). Ridomil Gold GR also provides up to 90 days of protection from damaging soilborne diseases caused by Oomycete species such as <i>Phytophthora nicotianae</i> and <i>Phytophthora palmivora</i>.</p>	48 hours	N/A	For established plantings: Apply 40 – 80 lb/treated acre as a soil surface treatment under the canopy of the trees	240 lb/treated acre/year Do not apply Ridomil Gold GR and residual herbicides simultaneously to citrus trees less than 3 years old. Allow 4 weeks between applications of Ridomil Gold GR and residual herbicides on trees less than 3 years old Do not use Ridomil Gold GR in greenhouse nurseries	Citrus foot rot, root rot, trunk canker
 <p>For years, growers have used Ridomil Gold SL fungicide as a cornerstone fungicide for control of soilborne diseases on citrus crops. By applying Ridomil Gold SL, growers can expect this super-systemic fungicide to improve root health, crop vigor and stand establishment, maximizing potential return on investment. This unique product fits into any growers program for control of soilborne <i>Phytophthora spp.</i> and <i>Pythium spp.</i> diseases.</p>	48 hours	N/A	Citrus resets or new plantings: 1 qt/A Apply 1 qt/A as a soil spray or ½ pt/grove acre through injection. Make two or three applications per year (spring + summer, summer + fall, or spring + summer + fall) Individual tree treatment for resets/new plantings: 1 – 1.5 fl oz/20 trees Established plantings: 1 pt/A as a spray or 0.5 pt/grove acre through injection to groves that have a <i>Phytophthora</i> propagule count of 10-20 per cubic centimeter of soil. Where propagule counts are above 20 per cubic centimeter, apply 1 qt/A as a spray or 1 pt/grove acre through injection. Trunk spray for gummosis: Add 1 quart to 10 gallons of water.	Do not exceed the equivalent of 6 lb. a.i./A per crop of mefenoxam-containing products Do not apply tank mixes of Ridomil Gold SL and residual herbicides to trees less than 3 years old. Apply the herbicide first; then wait 4 weeks to apply Ridomil Gold SL Do not apply Ridomil Gold SL in citrus nurseries.	Brown rot, citrus foot rot, gummosis, root rot, trunk canker




HERBICIDE

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Broadworks® Broadworks® herbicide delivers enhanced pre- and post-emergence control to aid in managing glyphosate-resistant broadleaf weeds. It is an excellent tank-mix partner to strengthen burndown and residual weed control.</p>	12 hours	1 day	See label for rate information	12 fl oz/A/year 3 applications/year	Amaranth, atriplex, broadleaf signalgrass, buffalobur, carpetweed, common chickweed, large crabgrass See label for full list of weeds controlled
 <p>Fusilade® DX Fusilade® DX herbicide offers superior post-emergence weed management for citrus. Fusilade DX works in all tillage situations and readily tank mixes with a variety of broadleaf herbicides.</p>	12 hours	14 days	24 fl oz/A	72 fl oz/A/year 3 applications/year	Post-emergence control of annual grass See label for full list of weeds controlled
 <p>Gramoxone® SL 2.0 Gramoxone® SL 2.0 herbicide delivers outstanding contact, broad-spectrum control of even the most difficult weeds. Gramoxone SL 2.0 is the burndown solution for growers who need quality weed control that helps preserve the efficacy of glyphosate and other herbicides. Apply it solo for a fast, effective burndown, or use it with a tank-mix partner.</p>	24 hours	N/A	2.5 – 4 pt/A	5 post-emergence directed applications per season	Post-emergence control of annual grass and broadleaf weeds
 <p>Gramoxone® SL 3.0 Gramoxone® SL 3.0 nonselective herbicide controls grasses and broadleaf weeds. It is effective under a variety of conditions.</p>	24 hours	Harvest at normal crop maturity	1.7 – 2.7 pt/A	13.3 pt/A 5 applications/year 5 lb a.i./A/year of paraquat-containing products	Post-emergence directed spray
 <p>Princep® 4L Princep® 4L is a liquid herbicide that controls more than 40 broadleaf weeds and annual grasses. Its long-lasting weed and grass protection is heightened by its excellent crop safety benefits and unbeatable tank mix flexibility. Princep 4L has many of the same benefits of atrazine but can be used in areas where atrazine is not allowed or desired. For use on grapefruit and oranges only.</p>	12 hours	0 days	Up to 4 qt/A/application	Broadcast applications: Do not apply more than 8 qt/A/year (8 lb. a.i./A) Banded applications: Do not apply more than 8 qt/A/year (8 lb. a.i./A) as a single application in the spring using a 50% band application	Preemergence treatment for difficult-to-control broadleaves and annual grass such as: Balsamapple vine, Spanishneedle, Honeyvine milkweed (partial control)
 <p>Princep® Caliber 90® Princep® Caliber 90® is a water-dispersible granule herbicide that controls more than 40 broadleaf weeds and annual grasses in citrus. It provides long-lasting protection against a broad spectrum of weeds and grasses, including fall panicum, crabgrass and pigweed. In addition, it offers many of the same benefits of atrazine but can be used where atrazine is not allowed or desired. For use on grapefruit and oranges only.</p>	12 hours	0 days	4.4 lb/A (4 lb. a.i./A)	Broadcast applications: Do not apply more than 8.8 lb/A/year (8 lb. a.i./A) Banded application: Do not apply more than 8.8 lb/A/year (8 lb. a.i./A) as a single application in the spring using a 50% band application. Apply once in the spring growing season between January and April.	Preemergence treatment for difficult-to-control broadleaves and annual grass including Balsamapple vine, Spanishneedle, Honeyvine milkweed (partial control)

Gramoxone SL 2.0 and Gramoxone SL 3.0 are Restricted Use Pesticides.


INSECTICIDE/MITICIDE					
PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Actara® insecticide, a second-generation neonicotinoid, protects citrus from Asian citrus psyllid and citrus leafminer at low use rates, providing superior control with unique trans-stemic movement. Plus, the quick uptake helps Actara control pests fast, stopping damage before it starts.</p>	12 hours	0 days	3 – 5.5 oz/A	Do not exceed a total of 11 oz/A of Actara or 0.172 lb. a.i. of thiamethoxam-containing products per acre per growing season.	Asian citrus psyllid, armored scale, citrus leafminer, citrus root weevil adult, mealybug, sharpshooter, short scale, whitefly
 <p>By utilizing robust rates of two proven active ingredients, Agri-Flex® insecticide/miticide provides convenient, quality 'trifecta' insect protection against the three most damaging pests of citrus foliage and fruit - Asian citrus psyllid, citrus leafminer and mites - and helps reduce psyllid vector transmission of citrus greening disease.</p>	12 hours	7 days	5.5 – 8.5 fl oz/A To avoid illegal residues, Agri-Flex must be mixed with a spray adjuvant. It is recommended for best results that a minimum of 0.20% horticultural spray oil (not a dormant oil) be used in the spray mixture or not less than 1.0 gal of horticultural spray oil/A (except when specified differently on label). Do not use binder or sticker type adjuvants.	Do not apply more than 17 fl oz/A of Agri-Flex miticide/insecticide or more than 0.047 lb. a.i./A of any foliar-applied abamectin-containing products or more than 0.172 lb. a.i./A of any foliar-applied thiamethoxam-containing products per growing season Do not make more than 3 applications of Agri-Flex miticide/insecticide or any foliar-applied abamectin-containing product per growing season	Asian citrus psyllid, citrus leafminer, citrus root weevil adult, citrus rust mite, mealybug, soft scale, stink bug
 <p>Agri-Mek® SC miticide/insecticide is the improved standard for reliable control of economically damaging mite and insect pests in citrus. This abamectin product to offer low VOC emissions in a concentrated, water-based formulation. Backed by a reputation for innovation and value, Agri-Mek SC provides the proven performance growers expect from Syngenta.</p>	12 hours	7 days	1 – 4.25 fl oz/A To avoid illegal residues, Agri-Mek SC must be mixed with a spray adjuvant. It is recommended for best results that a minimum of 0.20% horticultural spray oil (not a dormant oil) be used in the spray mixture or not less than 1.0 gal. of horticultural spray oil/A (except when specified differently on label). Do not use binder or sticker type adjuvants.	Do not apply more than 8.5 fl oz/A/ growing season of Agri-Mek SC or more than 0.047 lb. a.i./A of any other foliar-applied abamectin-containing product Do not make more than 3 applications/ growing season of Agri-Mek SC miticide/insecticide or any foliar-applied abamectin-containing product	Asian citrus psyllid, broad mite, citrus leafminer, citrus rust mite, citrus thrips, twospotted spider mite
 <p>Clinch® ant bait provides long residual control of fire ants that threaten to damage valuable, young citrus crops. Through the powerful and reliable control of ants, Clinch gives citrus growers peace of mind.</p>	12 hours	0 days	Broadcast/Aerial applications: 1 lb/A Individual Mound Treatment: 5 – 7 tbsp. Clinch/mound	4 lb/A/year	Fire ant, pavement ant

Agri-Flex and Agri-Mek SC are Restricted Use Pesticides.

INSECTICIDE/MITICIDE					
PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>A broad-spectrum, foliar insecticide, Minecto® Pro insecticide controls the most important citrus pests including Asian citrus psyllid, citrus thrips, citrus rust mite, and citrus leafminer. Harnessing the power of two complementary active ingredients, cyantraniliprole and abamectin, into one convenient premix formulation, Minecto Pro protects against multiple pest populations that overlap or occur at the same time.</p>	12 hours	7 days	8 – 12 fl oz/A To avoid illegal residues, Minecto Pro must always be mixed with a non-phytotoxic, non-ionic activator type wetting, spreading and/or penetrating spray adjuvant or horticultural oil (not a dormant oil) as specified in the label	Do not apply more than 0.40 lb. a.i./A/ calendar year of cyantraniliprole-containing products including all application types (seed treatment, soil, foliar) Do not apply more than 0.047 lb a.i./A/ calendar year of abamectin-containing products including all application types (seed treatment, soil, foliar)	Asian citrus psyllid, adult root weevil, broad mite, citrus bud mite, citrus leafminer, citrus rust mite, citrus thrips, cotton aphid, twospotted spider mite
 <p>Platinum® 75 SG insecticide offers proven, fast-acting residual control of sucking insects in citrus including Asian citrus psyllid and citrus leafminers. Platinum 75 SG is the result of the Syngenta commitment to constantly improving existing products to meet your changing needs. With a broad crop label and a more concentrated formulation for improved storage and handling, Platinum 75 SG has become the flexible and consistent product growers can trust.</p>	12 hours	0 days	1.83 – 3.67 oz/A	Do not exceed 3.67 oz/A/growing season of Platinum 75 SG or 0.172 lb. a.i./A/growing season of thiamethoxam-containing products	Soil application option for aphid, armored scale, Asian citrus psyllid, citrus blackfly, diaprepes root weevil larva and adult, leafhopper, citrus leafminer, mealybug, root weevil, sharpshooter, soft scale, thrips, whitefly
 <p>For a modern insecticide that provides reliable, broad-spectrum control of damaging citrus pests, trust Voliam Flexi® insecticide. Voliam Flexi gives growers the long-lasting residual they need to control key sucking, chewing and lepidopteran pests. With dual modes of action and a convenient premix formulation, Voliam Flexi is the easy way to protect your groves.</p>	12 hours	1 day	4 – 7 oz/A	Do not exceed a total of 14 oz. of Voliam Flexi or 0.172 lb. a.i. of thiamethoxam-containing products or 0.2 lb. a.i. of chlorantraniliprole-containing products/A/growing season	Armored scale, Asian citrus psyllid, citrus root weevil adult, citrus leafminer, mealybug, soft scale

Minecto® Pro is a Restricted Use Pesticide.

PLANT ACTIVATOR

PRODUCT OVERVIEW	REI	PHI	RATE/ACRE	MAXIMUM/CROP	LABELED USES
 <p>Blockade® 50WG plant activator is a selective systemic compound used for the suppression of citrus canker in citrus crops.</p>	12 hours	0 days	0.12 –1.5 oz/acre/100 trees See label for other rate information	12.8 oz/A/year Do not exceed 0.4 lb a.i./A/year of acibenzolar-S-menthyl-containing products	Citrus canker



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Product performance assumes disease presence.

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