

2020–2021 Florida Citrus Production Guide: Pesticides Registered for Use on Florida Citrus¹

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The following are lists of products that are registered for use on citrus, regardless of whether or not they are recommended for use. In cases where there are many similar products, such as copper fungicides, sulfurs, or petroleum oils, separate tables have been set up for each. All other products are listed in Table 4 and grouped according to use: 1) insecticides, acaricides, and nematicides, 2) fungicides, 3) herbicides, and 4) other products such as plant growth regulators and fumigants.

READ THE LABEL.

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The use of trade names in this publication is solely for the purpose of providing specific information. It is not a guarantee or warranty of the products named, and does not signify that they are approved to the exclusion of others of suitable composition. Use pesticides safely. Read and follow directions on the manufacturer's label. All chemicals should be used in accordance with directions on the manufacturer's label.

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Table 1. Copper fungicides registered for citrus and the diseases for which they have been evaluated.

Trade Name	Common Name	Cu (%) ¹	EPA Reg. No.	Evaluated for: ²				
				Melanose	Greasy Spot	Alternaria	Scab	Canker
Americop 40 DF	copper hydroxide	40	35484-4	X	X	ND	ND	X
Badge SC	copper oxychloride + copper hydroxide	20	80289-3-10163	X	X	X	ND	X
Badge X ₂	copper oxychloride + copper hydroxide	28.2	80289-12-10163	ND	ND	ND	ND	X
Basic Copper 50W HB	basic copper sulfate	50	42750-168	ND	ND	ND	ND	ND
Basic Copper 53	basic copper sulfate	53	45002-8	ND	ND	ND	ND	ND
Basic Copper Sulfate	basic copper sulfate	53	19713-72	X	ND	ND	ND	ND
Champ DP	copper hydroxide	37.5	55146-57	X	X	X	X	X
Champ Formula 2 Flowable	copper hydroxide	24.4	55146-64	X	X	ND	X	ND
Champ WG	copper hydroxide	50	55146-1	X	ND	ND	ND	X
Champion++	copper hydroxide	30	55146-115	ND	ND	ND	ND	ND
COC DF	copper oxychloride	50	45002-17	ND	ND	ND	ND	ND
COC WP	copper oxychloride	50	45002-17	ND	ND	ND	ND	X
C-O-C-S WDG	copper oxychloride + basic copper sulfate	51.25	34704-326	ND	ND	ND	ND	ND
Copper-Count-N	copper diammonia diacetate complex	8	10465-3	X	ND	X	ND	ND
Copper Sulfate Crystals	copper sulfate pentahydrate	25.0	56576-1	ND	ND	ND	ND	ND
Triangle Brand Copper Sulfate Instant Powder	copper sulfate pentahydrate	25.2	81882-1	ND	ND	ND	ND	ND
Cueva	copper octanoate	1.8	67702-2-70051	ND	ND	ND	ND	ND
Cuprofix Ultra 40 Disperss	basic copper sulfate	40	70506-201	X	X	ND	ND	X
Cuproxtat FL	basic copper sulfate	15.2	55146-151	ND	ND	ND	ND	ND
Cuproxtat Flowable	basic copper sulfate	15.2	35935-3	ND	ND	ND	ND	ND
Instill	copper sulfate pentahydrate	5.4	49538-5-92632	ND	ND	ND	ND	ND
Kalmor	copper hydroxide	30	91411-11-59807	ND	ND	ND	ND	ND
Kentan DF	copper hydroxide	40	80289-2	X	ND	X	ND	X
Kocide 2000	copper hydroxide	35	91411-10-70051	X	X	X	X	X
Kocide 3000	copper hydroxide	30	91411-2-70051	X	X	X	X	X
Kocide HCu	copper hydroxide	50.1	91411-2-70051	ND	ND	ND	ND	ND
KOP-Hydroxide	copper hydroxide	24.4	19713-301	ND	ND	ND	ND	ND
KOP-Hydroxide 5	copper sulfate pentahydrate	5	19713-695	ND	ND	ND	ND	ND
KOP-Hydroxide 50W	copper hydroxide	50	19713-321	ND	ND	ND	ND	ND
Magna-Bon CS 2005	copper sulfate pentahydrate	5.0	66675-3	ND	ND	ND	ND	X

Trade Name	Common Name	Cu (%) ¹	EPA Reg. No.	Evaluated for: ²				
				Melanose	Greasy Spot	Alternaria	Scab	Canker
MasterCop	copper sulfate pentahydrate	5.4	55272-18-66222	ND	ND	ND	ND	ND
Nordox 30/30 WG	cuprous oxide	30	48142-7	ND	ND	ND	ND	X
Nordox 75 WG	cuprous oxide	75	48142-4	ND	ND	ND	ND	X
Nu-Cop 3L	copper hydroxide	24.4	42750-75	ND	ND	ND	ND	ND
Nu-Cop HB	copper hydroxide	50	42750-132	X	X	ND	ND	ND
Nu-Cop 30 HB	copper hydroxide	30	42750-281	ND	ND	ND	ND	ND
Nu-Cop 50 DF	copper hydroxide	50	45002-4	ND	ND	X	ND	ND
Nu-Cop 50 WP	copper hydroxide	50	45002-7	ND	ND	ND	ND	X
Phyton 27 AG ³	copper sulfate pentahydrate	5.4	49538-5	ND	ND	ND	ND	ND
Previsto	copper hydroxide	3.3	10163-330	ND	ND	ND	ND	ND
Quimag Copper Sulfate Crystals	copper sulfate pentahydrate	25.2	73385-1	ND	ND	ND	ND	ND
Stretch	copper hydroxide	2.16	68292-3	ND	ND	ND	ND	ND
Top-Cop with Sulfur	tribasic copper sulfate + sulfur	4.4	57538-6	ND	ND	ND	ND	ND

¹ Percentage of metallic copper.

² X —Products indicated have been evaluated and have provided adequate control of the disease in question; ND—No data. Most of the products would be expected to provide adequate disease control.

³ Do not apply with oil because of phytotoxicity risk.

Table 2. Sulfur products registered for use on citrus and spectrum of activity against pest mites on citrus in Florida.

Trade Name and Formulation	Common Name	% Sulfur	EPA Reg. No.	Registered ¹ for Use on		Efficacy ²	
				Citrus Rust Mite	Broad Mite	Citrus Rust Mite	Broad Mite
Citrusperse Sulfur	sulfur	90%	5905-350	X	–	ID	ID
Cosavet DF	sulfur	80%	70905-1	X	–	ID	ID
Dusting Sulfur	sulfur	98%	34704-735	X	–	ID	ID
Kolodust	sulfur	84%	34704-733	X	–	ID	ID
Kumulus DF	sulfur	80%	51036-352	X	X	+	+
Liquid Sulfur Six	sulfur	52%	5905-437	X	–	ID	ID
Micro Sulf	(micronized) sulfur	80%	55146-75	X	X	ID	ID
Micronized Gold	(micronized) sulfur	90%	19713-238	X	X	+	+
Microthiol Disperss	(micronized) sulfur	80%	4581-373	X	X	+	+
Microthiol 80 DF	(micronized) sulfur	80%	4581-373	X	X	+	+
Sulfur 6 F	sulfur	52%	51036-16-34704	X	X	+	ID
Sulfur 6 L	sulfur	52%	51036-16-9779	X	X	+	ID
Sulfur Flowable 6	sulfur	52%	51306-16-34704	X	X	+	ID
Sulfur 6 L	sulfur	52%	51306-16	X	X	+	ID
Sulfur 6 FL	sulfur	52%	34704-70	X	–	ID	ID
Sulfur 90 W	(micronized) sulfur	90%	19713-238	X	X	ID	ID
Super Six	sulfur	52%	65343-1	X	–	ID	ID
Thiolux	(micronized) sulfur	80%	100-835	X	–	ID	ID
Thiolux Jet	(micronized) sulfur	80%	100-1138	X	–	ID	ID
Thiosperse 80% (CSC)	(micronized) sulfur	80%	55429-4	X	–	ID	ID
Yellow Jacket Wettable Sulfur	sulfur	90%	6325-13	X	–	ID	ID

¹ X indicates product registered for control of citrus rust or broad mites; – = not registered.

² + indicates product is effective; ID indicates incomplete data available; sulfurs are generally effective for false spider mites and ineffective for spider mites, while efficacy data on pink citrus rust mites are incomplete.

Table 3. Spray oils registered for use on Florida citrus.

Company	Trade Name	Midpoint Boiling Range	EPA No. ¹	Efficacy ²	
				Greasy Spot	Citrus Rust Mite
Brandt	TresOil	435°F	48813-1	ID	ID
BVA	Spray 10	412°F	55206-1	ID	ID
BVA	Spray 13	435°F	55206-2	+	+
BVA	Spray 15	455°F	55206-3	+	+
BVA	Spray 22	471°F ³	55206-4	ID	ID
Calumet	Orchex 692	415°F	75652-2	ID	ID
Calumet	Orchex 796	435°F	75652-1	+	+
Diamond R	435 Soluble Oil	435°F	35276-1	ID	ID
Drexel	435 Oil 98.8	435°F	19713-394	ID	ID
Drexel	455 Oil 98.8	455°F	19713-396	ID	ID
Helena Chemical	Sol-Oil 97	435°F	5905-294	ID	+
Helena Chemical	Mite-E-Oil	435°F	5905-302	+	+
Loveland Products	BioCover UL	415°F	34704-806	ID	+
Loveland Products	BioCover MLT	435°F	34704-805	+	+
Loveland Products	BioCover LS	455°F	34704-808	+	+
Loveland Products	BioCover SS	470°F ³	34704-809	+	+
Loveland Products	Glacial Spray Fluid	435°F	34704-849	ID	ID
Petro-Canada	PureSpray Green	435°F	69526-9	ID	ID
Petro-Canada	PureSpray spray oil 10E	408°F	69526-5	ID	ID

¹ Most oils are registered for use against citrus rust mite, greasy spot, spider mites, scale insects, whitefly, and other homopterans, and for removal of sooty mold.

² + = effective; - = not effective; ID = incomplete data; Orchex 796 has been found to control pink citrus rust mite without harm to beneficial mites; others have not been tested.

³ 470 weight oils have not been evaluated for their effects on fruit coloring or ripening and are more likely to be phytotoxic than lighter oils.

Table 4. Pesticides registered for use on Florida citrus—insecticides, acaricides, acaricides, and nematocides

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³			
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵		
Abacus	Abamectin (6)	81578-1 83100-4-83979	0.02	7	NO	12	1	2	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.										
Abamectin E-AG 0.15 EC	Abamectin (6)	79676-58	0.02	7	NO	12	-	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.										
ABBA 0.15EC	Abamectin (6)	72167-43-73220 72167-43-66222 66222-139	0.02	7	No	12	-	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.										
Acephate products										
Other Use Requirements: Do not harvest citrus for one year after treatment. Minimum 3 days spray interval for up to 0.5 lb a.i./ac and 7 days for rates greater than 0.5 lb a.i./ac.										
Acephate 75	Acephate (1B)	70506-1-55467	Nonbearing	12 months	NO	24	-	-	10,000	-
Acephate 75 WSP		70506-1								
Acephate 90 SP		51036-238								
Acephate 90 WSP		34704-862								
Acephate 97		70506-8-55467								
Acephate 97 UP		70506-8								
Other Use Requirements: Do not harvest citrus for one year after treatment. Minimum 3 days spray interval for up to 0.5 lb a.i./ac and 7 days for rates greater than 0.5 lb a.i./ac.										
Acramite-50WS	Bifenazate (UN)	400-503	Nonbearing	12 months	NO	12	-	-	-	-
Other Use Requirements: One application per year.										
Actara 25 WG	Thiamethoxam (4A)	100-938	0.4	0	NO	12	-	-	-	-
Other Use Requirements: Do not exceed a total of 1.0 oz/ac (0.172 lb a.i./ac) of Actara or 0.172 lb a.i. of thiamethoxam-containing products per acre per growing season. Do not apply during pre-bloom or during bloom when bees are actively foraging.										
Admire 2 F (see also Provado)	Imidacloprid (4A)	264-758	0.7	0	NO	12	-	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/ac/year (0.5 lb a.i./ac/year).										
Admire Pro	Imidacloprid (4A)	00264-00827	0.7	0	NO	12	-	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 14 oz per acre per season (0.5 lb a.i./ac/year). SLN FL-120008, permits up to 1.0 lb a.i. per acre per 12 months when applied as a soil drench. See SLN label for specific details.										

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³	
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵
Advise 2 FL	Imidacloprid (4A)	1381-205	0.7	0	NO	12	1	2
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb a.i./ac/year).								
Agri-Flex miticide/insecticide	Abamectin (6) Thiamethoxam (4A)	100-1350	0.02 0.4	7	NO	12	-	10,000
Other Use Requirements: RESTRICTED USE PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Do not apply during pre-bloom or during bloom when bees are actively foraging. To avoid illegal residues, Agri-Flex must be mixed with a minimum of 0.20% oil. Do not apply more than 17 fl oz/ac of Agri-Flex or more than 0.047 lb a.i./ac of any foliar-applied abamectin product or more than 0.172 lb a.i./ac of any foliar-applied thiamethoxam product per growing season. Do not make more than 3 applications of Agri-Flex or other foliar-applied abamectin-containing product per growing season. Refer to product label for additional use requirements.								
Agri-Mek 0.15 EC	Abamectin (6)	100-898	0.02	7	NO	12	-	10,000
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.								
Agri-mek SC	Abamectin (6)	100-1351	0.02	7	NO	12	-	10,000
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 8.5 fl oz/ac of Agri-mek SC or 0.047 lb a.i./ac of any abamectin-containing product per growing season.								
Alias 2F	Imidacloprid (4A)	00264-00758-66222	0.07	0	NO	12	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz per acre per season (0.5 lb a.i./ac/year).								
Altacor	Chlorantraniliprole (28)	352-730	1.4	1	NO	4	-	-
Other Use Requirements: Do not make more than 3 applications per season. Do not apply more than 9 oz of Altacor or 0.2 lb a.i. of chlorantraniliprole-containing product per acre per crop season.								
Apta	Tolfenpyrad (21A)	71711-36	1.5	14	NO	12	-	-
Other Use Requirements: Do not apply more than 27.0 fl oz per acre per growing season. Do not make more than 2 applications per year. Do not apply by air.								
Applaud 70DF IGR	Buprofezin (16)	71711-21	2	3	NO	12	-	-
Other Use Requirements: Limit to 2 applications per year.								
Assail 30SG	Acetamiprid (4A)	08033-00036-82695 8033-36-70506	0.5	7	NO	12	-	-
Other Use Requirements: Limit to 5 applications per year. Limit to 0.55 lb a.i. or 29.3 oz of product per acre per crop.								
Assail 70WP	Acetamiprid (4A)	8033-23-4581	0.5	7	NO	12	-	-
Other Use Requirements: Limit to 5 applications per year. Limit to 0.55 lb a.i. or 12.5 oz of product per acre per crop.								
Atrapa (see also Fyfanon and Malathion)	Malathion (1B)	(ULV) 1812-407 (5E) 1812-406 (8E) 1812-408 67760-34-1381	8.0	7	NO	12	-	10,000
Other Use Requirements: Toxic to aquatic invertebrates; highly toxic to honeybees. ⁶ Do not apply directly to water. Undiluted droplets will damage vehicle finishes. Unless written informed consent is obtained from adjacent landowners, ground application equipment must be used.								

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		RQ (lb a.i.) ⁵
							TPQ (lb a.i.) ⁴	1 2	
Award	Fenoxycarb (7B)	100-722	Nonbearing	12 months	NO	12	-	10,000	-
Other Use Requirements: Limit to 2 applications per year.									
Aza-Direct	Azadirachtin (UN)	71908-1-10163	Exempt	0	NO	4	-	-	-
Other Use Requirements: None									
Azatin XL	Azadirachtin (UN)	70051-27-59807	Exempt	0	NO	4	-	-	-
Other Use Requirements: None									
Azatrol EC	Azadirachtin (UN)	2217-836	Exempt	0	NO	4	-	-	-
Other Use Requirements: None									
<i>Bacillus thuringiensis</i>			Exempt	0	NO	4	-	-	-
Agree	B.t. aizawai Strain GC-91 (11)	70051-47							
Biobit HP	B.t. kurstaki Strain ABTS-351	73049-54							
Condor	B.t. kurstaki Strain EG2348	70051-78							
Crymax	B.t. kurstaki Strain EG7841	70051-86							
Deliver	B.t. kurstaki	70051-69							
DiPel DF	B.t. kurstaki Strain H0-1	73049-39							
Javelin WG	B.t. kurstaki	70051-66							
Lepinox WDG	B.t. kurstaki Strain EG7826	70051-89							
XenTari DF	B.t. aizawai Strain ABTS-1857	73049-40							
Other Use Requirements: None									
Baythroid XL									
Baythroid	Beta-cyfluthrin (3A)	264-840	0.2	0	NO	12	-	-	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to aquatic invertebrates; highly toxic to honeybees. ⁶ Do not apply directly to water.									
Belay	Clothianidin (4A)	5939-15 (WDG) 59639-152	0.07	365	NO	12	-	-	-
Belay 50 WDG									
Other Use Requirements: Do not harvest citrus for one year after treatment. Toxic to aquatic invertebrates; highly toxic to honeybees up to 5 days post application. ⁶ Do not apply directly to water.									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³	
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵
Bifenthrin EC Bifenthrin 2 EC AG	Bifenthrin (3B)	70506-57 66330-336	0.05	1	NO	12	1	2 10,000
Other Use Requirements: RESTRICTED PESTICIDE. Use as a soil barrier application; do not allow application to contact fruit or foliage. Apply only to individual citrus resets, not solid planted rows. Do not apply more than 0.5 lb a.i./ac/year.								
Bifenthrin EC	Bifenthrin (3B)	70506-57	0.05	1	NO	12	-	-
Other Use Requirements: RESTRICTED PESTICIDE. Use as a soil barrier application; do not allow application to contact fruit or foliage. Apply only to individual citrus resets, not solid planted rows. Do not apply more than 0.5 lb a.i./ac/year.								
BioVector 355	<i>Steinernema riobravivis</i> (NR)	NA	Exempt	-	-	-	-	-
Other Use Requirements: None								
Bracket 90	Acephate (1B)	51036-238-9779	Nonbearing	12 months	NO	24	-	10,000
Other Use Requirements: Do not harvest citrus for one year after treatment. Minimum 3 days spray interval for up to 0.5 lb a.i./ac and 7 days for rates greater than 0.5 lb a.i./ac.								
Brigade 2 EC	Bifenthrin (3B)	279-3313	0.05	1	NO	12	-	10,000
Other Use Requirements: RESTRICTED PESTICIDE. Use as a soil barrier application; do not allow application to contact fruit or foliage. Apply only to individual citrus resets, not solid planted rows. Do not apply more than 0.5 lb a.i./ac/year.								
Brigade WSB	Bifenthrin (3B)	00279-03108	0.05	1	NO	12	-	10,000
Other Use Requirements: RESTRICTED PESTICIDE. Soil application only. Do not allow contact with fruit or foliage. Toxic to fish and aquatic organisms; highly toxic to honeybees.								
Capture 2EC	Bifenthrin (3B)	279-3069	0.05	1	NO	12	-	-
Other Use Requirements: Use as a soil barrier application; do not allow application to contact fruit or foliage. Apply only to individual citrus resets, not solid planted rows. Do not apply more than 0.5 lb a.i./ac/year.								
Carbaryl (see also Sevin)	Carbaryl (1A)	(4L) 19713-49, 34704-447 (80S) 19713-50	10	5	NO	12	10	10,000 1
Other Use Requirements: Highly toxic to aquatic invertebrates and honeybees. ⁶ Do not apply more than 20 qt per acre per crop.								
Cheminova Acephate 75 SP	Acephate (1B)	59639-26-67760	Nonbearing	12 months	NO	24	-	10,000
Other Use Requirements: Do not harvest citrus for one year after treatment. Minimum 3 days spray interval for up to 0.5 lb a.i./ac and 7 days for rates greater than 0.5 lb a.i./ac.								
Chlorpyrifos (see also Lorsban)	Chlorpyrifos (1B)	(15G) 51036-300, 19713-505 (4E) AG) 51036-291, 66222-19	1	Foliar—21 Soil—28	NO	5 days	100	10,000 1
Other Use Requirements: RESTRICTED PESTICIDE. Toxic to fish, aquatic organisms, mammals, and birds. Limit 2 applications per season.								
Clinch Ant Bait	Abamectin (6)	100-894	0.02	0	NO	12	-	-
Other Use Requirements: None								
Comite	Propargite (12C)	400-104	5	21	YES	7 days	-	10,000 10
Other Use Requirements: Do not mix with oil, products with petroleum-based solvents, lime, or lime sulfur. Do not apply within 2 weeks of oil application. Avoid application to immature leaves and fruit. After 48 hours, workers may enter treated area if they wear proper personal protective equipment. Limit 2 applications per season. Toxic to fish.								

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Couraze 1.6F	Imidacloprid (4A)	264-763-67760	0.7	0	NO	12	1	2	
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Couraze 2F	Imidacloprid (4A)	264-758-67760	0.7	0	NO	12	-	-	
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Cryolite 96, Prokil	Cryolite (UN)	10163-41	7	15	NO	12	-	-	
Other Use Requirements: Do not mix with lime, compounds containing free lime, or calcium foliar nutrients. Minimum of 30 days between applications.									
Danitol 2.4 EC Spray	Fenprothrin (3A)	59639-35	2	1	NO	24	-	10,000	
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, aquatic organisms, and honeybees. Do not apply during bloom.									
Delegate WG	Spinetoram (5)	62719-541	0.3	1	NO	4	-	-	
Other Use Requirements: Do not apply more than 12 oz of product (0.188 lb a.i.) per acre per season. Do not make more than 3 applications per calendar year.									
Dibrom 8 Emulsive	Naled (1B)	5481-479	3	7	NO	48	-	10,000	
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Limit 1 pint per acre in Florida. Do not use with highly alkaline materials such as lime or Bordeaux.									
Dimate 4 EC	Dimethoate (1B)	51036-110-9779 9779-273	2	15-45 (depending on rate)	YES ¹⁰	10 days	500	10,000	
Other Use Requirements: Limit to 2 applications to mature fruit. Highly toxic to honeybees. ⁶ Toxic to aquatic organisms.									
Dimethoate	Dimethoate (1B)		2	15-45 (depending on rate)	YES ¹⁰	10 days	500	10,000	
2.67		19713-232							
2.67 EC		34704-489							
267		51036-198							
4 EC		5905-493							
4 EC		19713-231							
4		10163-160							
400		34704-207							
4 E		51036-110, 34704-207-67760, 66330-223							
5 lb		5905-497							
E 267		10163-56							
Other Use Requirements: Limit to 2 applications to mature fruit. Highly toxic to honeybees. ⁶ Toxic to aquatic organisms.									
Distance	Pyriproxyfen (7C)	59639-96	Nonbearing	12 months	NO	12	-	10,000	
Other Use Requirements: Limit 2 applications per season.									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Distance Fire Ant Bait	Pyriproxyfen (7C)	1021-1728-59639	Nonbearing	12 months	NO	12	1	2	
Other Use Requirements: None									
DI-Tera ES DI-Tera DF	<i>Myrothecium verrucaria</i> (NR)	73049-43 73049-67	Exempt	0	NO	4	-	-	
Other Use Requirements: None									
Ecotrol EC	Peppermint oil Rosemary oil	Exempt	Exempt	0	NO	0	-	-	
Other Use Requirements: None									
Ecozin 3% EC	Azadirachtin (UN)	5481-476	Exempt	0	NO	12	-	-	
Other Use Requirements: None									
Entrust	Spinosad (5)	62719-282	0.3	1	NO	4	-	-	
Other Use Requirements: Limit to 2 applications per year. Limit to 9 oz of product (0.45 lb a.i. spinosad) per acre per season.									
Envior 2SC	Spirodiclofen (23)	00264-00831	0.5	7	NO	12	-	-	
Other Use Requirements: Limit to 1 application per year. Limit to 20 oz product per acre per season.									
Epi-mek 0.15EC	Abamectin (6)	00100-01154	0.02	7	NO	12	-	10,000	
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.									
Esteem Ant Bait	Pyriproxyfen (7C)	59639-114	0.3	1	NO	12	-	-	
Other Use Requirements: None									
Esteem 0.86 EC	Pyriproxyfen (7C)	59639-95	0.3	1	NO	12	-	10,000	
Other Use Requirements: Limit to 2 applications per season. Limit to 26 fl oz per acre per season.									
Evergreen EC 60-6	Pyrethrins + piperonyl butoxide (3A)	01021-01770	Pyrethrins (1) Piperonyl butoxide (8)	0	NO	12	10,000	1	
Other Use Requirements: None									
Exitel	Cytraniliprole (28)	352-859	0.70	1	NO	12	-	-	
Other Use Requirements: Do not apply a total of more than 0.4 lb a.i./ac of any cyantraniliprole-containing product per year. See label for pollinator restrictions.									
Extinguish	Methoprene (7A)	2724-475	Exempt	0	NO	4	-	-	
Other Use Requirements: None									
Fanfare 2EC	Bifenthrin (3A)	66222-99	0.05	1	NO	12	-	10,000	
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Soil application only. Do not allow contact with fruit or foliage. Toxic to fish and aquatic organisms. Highly toxic to honeybees. ⁶									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Fyfanon (see also Malathion and Atrapa)	Malathion (1B)	(56.4%) 5905-196 (8 lb emulsion) 5905-250-ZA (ULV) 67760-34 SLN FL-40004	8	7	NO	12	-	10,000	100
Other Use Requirements: Highly toxic to honeybees. ⁶									
GF-120 GF-120 NF	Spinosad (5)	62719-359 62719-498	0.3	0	NO	4	-	-	-
Other Use Requirements: Toxic to aquatic invertebrates. Do not apply directly to water.									
Govern 4 E	Chlorpyrifos (1B)	62719-220-55467	1	21	YES	5 days	100	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE. ⁷									
Imida E-AG 2 F	Imidacloprid (4A)	81959-22	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb a.i./ac/year).									
Imidan 70-W	Phosmet (1B)	10163-169 SLN FL-10006	5	7	NO	24	10	-	10
Other Use Requirements: Limit 5 applications per year. Toxic to fish and aquatic organisms. Highly toxic to honeybees. ⁶									
Impulse 1.6 FL	Imidacloprid (4)	42750-109	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 oz/acre/year (0.5 lb a.i./ac/year).									
Intrepid 2F	Methoxyfenozide (18)	62719-442	10	1	NO	4	-	-	-
Other Use Requirements: 24(c) SLN-FL-100001; do not apply more than 16 fl oz per acre per application or 64 fl oz of Intrepid 2F (1 lb a.i.) per acre per season. Do not apply within 14 days of last application.									
Justice Fire Ant Bait	Spinosad (5)	62719-00329	0.3	0	NO	4	-	-	-
Other Use Requirements: None									
Kanemite 15SC	Acequinocyl (20B)	66330-00038	0.2	7	NO	12	-	-	-
Other Use Requirements: None									
Knack IGR	Pyriproxyfen (7C)	59639-95	0.3	1	NO	12	-	10,000	100
Other Use Requirements: Limit to 2 applications per season. Limit to 26 fl oz product per acre per season.									
Kryocide	Cryolite (UN)	4581-116	7	15	NO	12	-	-	-
Other Use Requirements: Limit to 90 lb per acre per season.									
Lorsban (see also Chlorpyrifos)	Chlorpyrifos (1B)	(4E) 62719-220 (Advanced) 62719-591 (50-W) 62719-221, 62719-221-10163 (15G) 62719-34 (75WG) 62719-301, 62719-301-10163	1	Foliar—21 Soil—28	YES ¹⁰	5 days	100	10,000	1
Other Use Requirements: Foliar—Highly toxic to honeybees. ⁶ Limit to 2 applications/season with 30-day interval. Soil—Limit to 3 applications/season with maximum of 10 qt/ac/season. 4E Formulation is RESTRICTED PESTICIDE. ⁷									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Macho 2.0 FL	Imidacloprid (4A)	42750-110	0.7	0	NO	12	1	2	
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/ac/year (0.5 a.i./ac/year).									
Malathion (see also Fyfanon and Atrapa)	Malathion (1B)		8	7	NO	12	-	10,000	100
5		9779-5							
5 EC		51036-104, 1386-124							
57 EC		34704-108							
8 Aquamul		34704-474							
8 E		34704-452							
8 EC		34704-119, 51036-214							
8 Flowable		10163-21							
8 Spray		2935-83							
Other Use Requirements: Highly toxic to honeybees. ⁶									
MBI-203 EP	Chromobacterium subtsugae	84059-10	EXEMPT	0	NO	4	-	-	-
Other Use Requirements: Highly toxic to honeybees ⁶ ; do not apply during bloom.									
Micromite 25WS	Diflubenzuron (15)	400-471	0.5	21	NO	12	-	10,000	-
Micromite 4L		400-476							
Micromite 80WGS		(SLN-FL-960014) 400-487							
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to aquatic invertebrates.									
Minecto Pro	Cytraniliprole (28) Abamectin (6)	100-1592	0.70 0.002	7	NO	12	-	-	-
Other Use Requirements: Do not apply more than 0.4 lb a.i. per calendar year of any cyantraniliprole-containing product. Do not apply from onset of flowering until petal fall is complete.									
Mocap EC	Ethoprop (1B)	264-458 SLN-FL-870001	Nonbearing	12 months	YES	48	1,000	10,000	100
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Acute dermal toxicity.									
Montana 2F	Imidacloprid (4A)	83100-7-83979	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/ac/year (0.5 lb a.i./ac/year).									
Movento	Spirotetramat (23)	264-1050	0.6	1	NO	24	-	-	-
Other Use Requirements: Do not apply more than 20 fl oz/ac (0.32 lb a.i./ac) per crop season. Do not apply within 10 days prior to bloom, during bloom, or until petal fall is complete.									
Movento MPC	Spirotetramat (23)	264-1065	0.6	1	NO	24	-	-	-
Other Use Requirements: Do not apply more than 32 fl oz/ac (0.32 lb a.i./ac) per growing season. Do not apply within 10-days of bloom, during bloom, or until petal fall is complete.									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
M-Pede	Potassium salts of fatty acids	53219-6 15G62119-34 62719-515	Exempt	0	NO	12	1	2	
Other Use Requirements: Do not mix with chlorothalonil, Formetanate hydrochloride, Fosetyl-AI, gibberellic acid, Mancozeb, or sulfur.									
Mustang Insecticide	Zeta-cypermethrin (3A)	279-3126	0.35	1	NO	12	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Do not make more than 4 applications (0.20 lb a.i.) per crop season. Do not make applications less than 14 days apart. Highly toxic to honeybees ⁸ ; do not apply during bloom.									
Mustang Max EW	Zeta-cypermethrin (3A)	279-3328	0.35	1	NO	12	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Do not make more than 4 applications (0.10 lb a.i.) per crop season. Do not make applications less than 14 days apart. Highly toxic to honeybees ⁸ ; do not apply during bloom.									
Neemix 4.5	Azadirachtin (UN)	70051-9	Exempt	0	NO	12	-	-	-
Other Use Requirements: None									
Nexter Miticide/Insecticide	Pyridaben (21A)	81880-4-10163	0.5	7	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees ⁸ and fish. Do not exceed 2 applications/season. Do not apply by air or handgun.									
Nufos 15G	Chlorpyrifos (1B)	67760-14	1	28	YES	24	-	-	1
Other Use Requirements: Limit 3 applications per year.									
Nufos 4E	Chlorpyrifos (1B)	67760-28	1	21	YES	5 days	1,000	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Limit 2 applications per season.									
Nuprid 1.6F	Imidacloprid (4A)	228-488	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz per acre per season (0.5 lb a.i./ac/year).									
Nuprid 2F	Imidacloprid (4A)	228-484	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz per acre per season (0.5 lb a.i./ac/year).									
Nuprid 4.6F Pro	Imidacloprid (4A)	228-527	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 14 fl oz per acre per season (0.5 lb a.i./ac/year).									
Omite-30WS Omite-CR	Propargite (12C)	400-427 400-426	Nonbearing	12 months	YES	28 days	-	10,000	10
Other Use Requirements: After 48 hours, workers may enter treated area if they wear proper personal protective equipment. Limit 2 applications per season.									
OR-Cal Slug & Snail Bait	Metaldehyde	71096-7	0.26	0	NO	12	-	-	-
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Orthene	Acephate (1B)	(75 S) 59639-26 (97) 59639-91	Nonbearing	12 months	NO	24	10	10,000	1
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to fish and birds. Do not harvest citrus for one year after treatment. Minimum 3 days spray interval for up to 0.5 lb a.i./ac and 7 days for rates greater than 0.5 lb a.i./ac.									
Pasada 1.6F	Imidacloprid (4A)	00264-00763-66222	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Highly toxic to aquatic invertebrates. Limit to 32 oz per acre per season (0.5 lb a.i./ac/year).									
Platinum 75 SG	Thiamethoxam (4A)	100-1291	0.4	0	NO	12	-	-	-
Other Use Requirements: Do not exceed a total of 3.67 oz/ac (0.172 lb a.i./ac) of Platinum 75 SG or 0.172 lb a.i. of thiamethoxam-containing products per acre per growing season. Do not apply during prebloom or during bloom when bees are actively foraging.									
Portal	Fenpyroximate (2I)	71711-19	0.6	14	NO	12	-	-	-
Other Use Requirements: Do not apply more than 4 pt per season.									
Prey 1.6	Imidacloprid (4A)	34704-894	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 oz/ac/year (0.5 lb a.i./ac/year).									
Prokil Cryolite 96	Sodium aluminofluoride (UN)	10163-41	7	15	NO	12	-	-	-
Other Use Requirements: Do not apply more than 90 lb per acre per year.									
Prokoz Sevin SL	Carbaryl (1A)	432-1227-72112	10	5	NO	12	10,000	-	100
Other Use Requirements: None									
Provado 1.6 F	Imidacloprid (4A)	264-763	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 oz/ac/season (0.5 lb a.i./ac/year).									
Pyganic EC 1.4 II	Pyrethrins (3A)	1021-1771	1	0	NO	12	-	-	1
Pyganic EC 5.0 II		1021-1772							
Other Use Requirements: None									
Pyrellin E.C.	Pyrethrins (3A) Rotenone (2I)	30573-2	1	5	NO	12	-	-	1
Other Use Requirements: None									
Reaper 0.15EC	Abamectin (6)	34704-923	0.02	7	NO	12	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, -- and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.									
Savey 50 DF	Hexythiazox (10A)	10163-250	Nonbearing	12 months	NO	12	-	-	-
Other Use Requirements: Limit 1 application per year. Toxic to fish and aquatic invertebrates.									

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³			
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵		
Sevin (see also Carbaryl)		(80 S) 264-316 (4 F) 264-349 (XLR) 264-333 (SL) 432-1227 (80 WSP) 264-526 (80 WSP) 432-1226	10	5	NO	12	1	2	10,000	100
Other Use Requirements: Do not apply more than 20 lb a.i./ac/year for all uses. Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates.										
Sivanto 200 SL	Flupyradifurone (4D)	264-1141	3.0	1	NO	12	-	-	-	-
Other use Requirements: Do not apply more than 28.0 fl oz/ac per year.										
Sniper	Bifenthrin (3A)	34704-858	0.05	1	NO	12	-	-	10,000	100
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Use as a soil barrier application; do not allow application to contact fruit or foliage. Apply only to individual citrus resets, not solid planted rows. Do not apply more than 0.5 lb a.i./ac/year.										
Spintor 2 SC	Spinosad (5)	62719-294	0.3	1	NO	4	-	-	-	-
Other Use Requirements: Do not apply more than 29 ounces (0.45 lb) per acre per crop year. Limit 2 applications per season.										
Sulfur	Sulfur (NR)	See Table 2	Exempt	0	NO	24	-	-	-	-
Other Use Requirements: Do not apply within 21 days of an oil spray.										
Surround WP	Kaolin (NR)	70060-00014	Exempt	0	NO	4	-	-	-	-
Other Use Requirements: None										
Temprano	Abamectin (6)	67760-71-400	0.02	7	NO	12	-	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.										
Torrent 1.6F	Imidacloprid (4A)	60063-32	0.7	0	NO	12	-	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 fl oz/ac/season (0.5 lb a.i./ac/year).										
Torrent 2 F	Imidacloprid (4A)	60063-31	0.7	0	NO	12	-	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 oz/ac/year (0.5 lb a.i./ac/year).										
Vendex 50WP	Fenbutatin oxide (12B)	352-658	20	7	NO	48	-	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish; limited to 2 applications/12-month period with at least a 60-day interval.										
Verimark	Cyantraniliprole (28)	352-860	0.70	1	NO	4	-	-	-	-
Other Use Requirements: Do not apply more than 0.4 lb a.i./ac of any cyantraniliprole containing product per year, regardless of whether applications are made to the soil or foliarly.										
Voliam Flexi	Chlorantraniliprole (28); Thiamethoxam (4A)	100-1319	1.4; 0.4	1	NO	12	-	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Do not apply when bees are actively foraging. Do not exceed a total of 14.0 oz of Voliam Flexi or 0.172 lb a.i. of thiamethoxam containing products or 0.2 lb a.i. of chlorantraniliprole-containing products per acre per growing season.										
Vydate L	Oxamyl (1A)	352-372	3	7	NO	48	100	10,000	1	1

Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Other Use Requirements: SL ⁸ ; RESTRICTED PESTICIDE. ⁷ Toxic to birds and mammals. Limit to 6 applications per year.									
Warhawk	Chlorpyrifos (1B)	62719-220-34704	1	21	YES	5 days	-	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE. ⁷									
Whirlwind	Chlorpyrifos (1B)	62719-220-5905	1	21	YES	5 days	-	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE. ⁷									
Widow	Imidacloprid (4A)	34704-893	0.7	0	NO	12	-	-	-
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 fl oz/ac/season (0.5 lb a.i./ac/year).									
Zoro Miticide/Insecticide	Abamectin (6)	67760-71	0.02	7	NO	12	-	10,000	-
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. ⁶ Limit of 3 applications of abamectin per growing season. Do not apply more than 40 fl oz/ac (0.047 lb a.i./ac) of any abamectin product in a growing season.									

¹ Extracted from product labels, Code of Federal Regulations, and other federal and state regulations.

² Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.

³ Emergency Planning and Community Right-To-Know Act. Information presented here is not intended to take the place of the actual regulation. Call the State Emergency Response Commission at 1-800-635-7179 for additional details.

⁴ Threshold Planning Quantity. If the grower meets or exceeds this amount, notification must be made. Placard vehicle not a facility. (1 = active ingredient is a gas, is molten, in solution of or is a fine powder; 2 = is a granular or other larger particle form).

⁵ The amount of active ingredient that when spilled or released requires reporting to authorities within 15 minutes. Should be reported by telephone to 850-413-9919 or 800-320-0519.

⁶ Will kill bees for 24 hours following application.

⁷ A certification license is required to purchase and apply or must be under the supervision of a licensee and only for those uses covered by the certified applicator's certification.

⁸ SL = See Label for use restrictions.

⁹ Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY-624, *Pesticide Resistance and Resistance Management*, in the 2020–2021 Florida Citrus Production Guide for more details.

¹⁰ Under revisions to the WPS, mandatory posting is required for any product with an REI greater than 48 hours. Refer to CPMG-07, *Quick Reference Guide to the Worker Protection Standard (WPS) as Revised in 2015* in the 2020–2021 Florida Citrus Production Guide for more details.

Table 5. Pesticides registered for use on Florida citrus—fungicides.

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
A-Zox 25 SC	Azoxystrobin (11)	83529-64	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Abound Flowable Fungicide	Azoxystrobin (11)	100-1098	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 90 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Acadia 2 SC	Azoxystrobin (11)	91234-74	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	10,000	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Actinovate AG	<i>Streptomyces lydicus</i> WYEC 108 (BM 02)	73314-1 or 524-641	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Adorn Fungicide	Fluopicolide (43)	59639-141	Nonbearing Fruit (group 10-10) 0.01 0.03 (dried pulp) 1.0 (oil)	NA ⁸	NO	12	--	--	--
Other Use Requirements: Nonbearing only; must be tank-mixed with another fungicide for resistance management—see label for details; no more than 2 applications per cropping cycle.									
Aframe	Azoxystrobin (11)	100-1098	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 90.0 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Aliette WDG	Fosetyl-AL (Aluminum tris) (P07)	264-516	fruit (group 10-10) 9.0	30	NO	12	--	--	--
Other Use Requirements: Do not exceed 4 applications/season or 20 lb/ac/year; for foliar application, do not exceed 100 or 500 GPA nonbearing and bearing, respectively.									
Alude	Mono- and dibasic sodium, potassium, and ammonium phosphorous acid (P 07)	55146-83	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶		
Alumni	Thiabendazole (1)	100-889	15 (oil) Fruit (group 10 PH) 10	PH	NA	12	1	2	--
Other Use Requirements: None									
Amistar Top	Azoxystrobin (11) Difenoconazole (3)	100-1313	A fruit (group 10-10) 15 A 20 (dried pulp) A 40 (oil) D fruit (group 10) 0.60 D (dried pulp) 2.0 D 25 (oil)	0	NO	12	--	--	--
Other Use Requirements: Do not apply more than 61.5 fl oz/ac/season for all uses. Do not apply more than 0.5 lb a.i. difenoconazole/ac/season. Do not apply more than 1.5 lb a.i. azoxystrobin/ac/season. Not for nursery production use.									
AmTide Propiconazole 41.8% EC	Propiconazole (3)	83851-10	Nonbearing 1000 (oil) Fruit (group 10) 8	NA	NO	12	--	--	>1,000 gal 100 p-xylene
Other Use Requirements: Nonbearing only. Do not apply more than 24 fl oz/ac/season for all uses. Do not apply more than 0.67 lb a.i. propiconazole/ac/season.									
AVIV	<i>Bacillus subtilis</i> IAB/BS03 (NC)	91473-1-86182	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Azoxystrobin PRIME	Azoxystrobin (11)	89442-21	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Azoxystrobin Star	Azoxystrobin (11)	42750-261	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Azoxystrobin FC 3.3	Azoxystrobin (11)	71532-35-91026	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
AZteroid FC	Azoxystrobin (11)	89118-3 89118-11	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 116 fl oz/ac/season (FC) or 58.2 fl oz (FC 3.3) for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Banner MAXX II	Propiconazole (3)	100-1326	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Nonbearing only; do not apply more than 5.4 gallons/ac/season.									
BioSpectra 100SC	Natamycin (48)	7681-93-8	Exempt	0	NA	NA	--	--	--
Other Use Requirements: Postharvest only.									
Bio-Tam 2.0	<i>Trichoderma gamsii</i> and <i>T. asperellum</i> (BM 02)	80289-9	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Blockade 50WG	Acibenzolar-S-methyl (P 01)	100-922	Fruit (group 10-10) 0.02	0	NO	12	--	--	--
Other Use Requirements: Do not apply more than 3.2 oz/ac/application (0.1 lb a.i.) or 12.8 oz/ac/year (0.4 lb a.i.).									
BotryStop Biofungicide	<i>Ulocladium oudemansii</i> (U3 strain)	75747-2-68539	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Broadform	Trifloxystrobin (11) Fluopyram (7)	432-1537	T 1.0 (dried pulp) T 38 (oil) T Fruit (group 10) 0.6 F Fruit (group 10-10) 1.0 F 8.0 (oil)	7	NO	12	--	--	--
Other Use Requirements: Do not apply more than 27.1 fl oz/ac/year. Do not exceed more than 0.446 lb fluopyram or 0.5 lb trifloxystrobin per year for all uses.									
Bumper 41.8 EC ES	Propiconazole (3)	66222-270 66222-42 66222-241	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Nonbearing only or within 12 months of harvestable fruit; do not apply more than 24 fl oz/ac/season. Do not apply more than 0.67 lb a.i./ac/season of propiconazole.									
Carb-O-Nator	Potassium bicarbonate	70051-117	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Compass	Trifloxystrobin (11)	432-1371	Nonbearing 1.0 (dried pulp) 38 (oil) Fruit (group 10-10) 0.6	12 months	NO	12	--	--	--
Other Use Requirements: Rotate to a non-MOA Group 11 fungicide for a minimum of two applications before rotating back.									
Confine Extra	Mono- and di-potassium salts of phosphorous acid (P 07)	1381-244	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply at less than a 3-day interval.									
Copper fungicides	Various (M 01)	See Table 1	Exempt	0	NO	SL ⁹	--	--	--
Other Use Requirements: None									
Dorado	Propiconazole (3)	100-741	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Nonbearing only. Do not apply more than 5.4 gal/ac/year.									
Double Nickle 55 LC	<i>Bacillus amyloliquifaciens</i> strain D747 (BM 02)	70051-108 70051-107	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
EcoSwing Botanical	Extract of <i>Swinglea glutinosa</i> (BM 01)	10163-357	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Empress Intrinsic	Pyraclostrobin (11)	7969-355	12.5 (dried pulp) 9.0 (oil) Fruit (group 10-10) 2.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 54 fl oz/ac/season or 0.88 lb a.i./ac/season or other MOA Group 11 fungicides/season. Do not use more than 2 sequential applications/season.									
Enable 2F	Fenbuconazole (3)	62719-416	5.0 (dried pulp) 40 (oil) Fruit (group 10) 1.0	0	NO	12	--	--	--
Other Use Requirements: No more than 3 applications/year; no more than 0.38 lb (24 fl oz Enable) a.i./ac/year; minimum retreatment interval is 21 days. Do not apply with polymer adjuvants.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷	
Endura	Boscalid (7)	7969-197	4.5 (dried pulp) 85.0 (oil) fruit (group 10-10) 2.0	0	NO	12	1	2	
Other Use Requirements: Do not apply more than 27.2 oz/ac/season or 1.20 lb a.i./ac/season.									
Ferbam Granuflo	Ferbam (M03)	45728-7	4.0 fruit (group 10)	0	NO	24	--	--	
Other Use Requirements: No more than 3 applications. No more than 7.9 lb/ac (6.0 lb a.i.) per single application.									
Fireline 17 WP 45 WP	Oxytetracycline Hydrochloride (41)	80990-1 80990-6	Fruit (group 10-10) 0.01	40	YES	12	--	--	
Other Use Requirements: Do not use more than 4.5 lb (17 WP) or 1.69 lb (45 WP) (0.82 a.i.) oxytetracycline/ac/season.									
Firewall 50 WP*	Streptomycin sulfate (25)	80990-3	Fruit 2.0 Dried pulp 6.0 Grapefruit 0.15 Grapefruit dried pulp 0.40	40	YES	12	--	--	
Other Use Requirements: Do not use more than 33 oz streptomycin/ac/year. *Section 18 effective 12/31/2019–12/31/2020									
Fitness	Propiconazole (3)	34704-1031	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	100 Naphthalene	
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz. propiconazole/ac/season.									
Fosphite	Phosphorous acid, mono- and dipotassium salts (P 07)	68573-2	Exempt	0	NO	4	--	--	
Other Use Requirements: Minimum retreatment interval is 3 days; to avoid phytotoxicity, do not apply less than 20 days after copper-based products.									
Fungi-Phite	Phosphorous acid, mono- and dipotassium salts (P 07)	73771-5	Exempt	0	NO	4	--	--	
Other Use Requirements: If chemigating, do not apply more than 4 times/crop cycle.									
Gem 500 SC	Trifloxystrobin (11)	264-826	1.0 (dried pulp) 38 (oil) Fruit (group 10) 0.6	7	NO	12	--	--	
Other Use Requirements: Do not apply more than 15.2 fl oz/ac/season for all uses. No more than 4 applications of Gem 500 SC or other MOA Group 11 fungicides/season.									
Graduate MAX MP	Fludioxonil (12)	100-969 100-1242	500 (oil) Fruit (group 10-10) 10	PH ⁸	NO	0	--	--	
Other Use Requirements: Do not make more than 2 applications to citrus fruit.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷	
Graduate A+	Fludioxonil (12) Azoxystrobin (11)	100-1308	F 500 (oil) Fruit (group 10-10) 10 A 20 (dried pulp) A 40 (oil) A fruit (group 10-10) 15	PH ⁸	NO	0	--	--	
Other Use Requirements: Do not make more than 2 applications to citrus fruit. Maximum rate per crop 128 fl oz. Do not exceed 1.99 lb a.i./crop of fludioxonil- or azoxystrobin-containing products.									
Gunner 14.3 MEC	Propiconazole (3)	91234-36	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	10,000	--	--
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz propiconazole/ac/season.									
Headline SC	Pyraclostrobin (11)	7969-186 7969-289	12.5 (dried pulp) 9.0 (oil) Fruit (group 10-10) 2.0	0	NO	12	--	--	Naphthalene (100 lb) SC
Other Use Requirements: Do not apply more than 54 fl oz/ac/season or 0.88 lb a.i./ac/season or other MOA Group 11 fungicides/season. Do not use more than 2 sequential applications/season.									
HDH Foam 26	Sodium ortho-phenylphenate (NC)	83103-2	10	PH ⁸	NA	NA	--	--	--
Other Use Requirements: None									
Honor Guard PPZ	Propiconazole (3)	66222-41-53883	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz propiconazole/ac/season.									
Indar 2F	Fenbuconazole (3)	62719-416	5.0 (dried pulp) 40 (oil) Fruit (group 10) 1.0	0	NO	12	--	--	--
Other Use Requirements: No more than 3 applications/year; no more than 0.38 lb (24 fl oz Indar) a.i./ac/year; minimum retreatment interval is 21 days.									
Insignia SC Intrinsic	Pyraclostrobin	7969-290	Nonbearing 12.5 (dried pulp) 9.0 (oil) Fruit (group 10-10) 2.0	12	NO	0	--	--	--
Other Use Requirements: Do not apply more than 54 fl oz/ac/season or 0.88 lb a.i./ac/season or other MOA Group 11 fungicides/season. Do not use more than 2 sequential applications/season.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Jet-Ag	Peroxyacetic acid (NC) Hydrogen peroxide (NC)	81803-6	Exempt Exempt when ≤ 1% per application	0	YES	4	--	--	Acetic acid 73,529
Other Use Requirements: None									
KeyPlex 350 Organic	Yeast extract hydrolysate from <i>Saccharomyces cerevisiae</i> (NC)	73512-1 73512-4	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
K-Phite 7LP	mono + dipotassium salts of Phosphorous Acid (P07)	73806-1	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply at intervals less than 3 days.									
Linebacker WDG	Fosetyl-AL (P 07) Also known as aluminum tris (O-ethyl phosphonate)	61842-9	Fruit (group 10-10) 9.0	0	NO	24	--	--	--
Other Use Requirements: Do not exceed 4 applications or 20 lb/ac/year. Do not exceed 500 GPA for foliar applications.									
Luna Sensation	Trifloxystrobin (11) Fluopyram (7)	264- 1090	T 1.0 (dried pulp) T 38 (oil) T Fruit (group 10) 0.6 F Fruit (group 10-10) 1.0 F 8.0 (oil)	7	NO	12	10,000 lb	--	--
Other Use Requirements: Maximum 24 fl oz/ac/year. Do not apply more than 0.67 lb a.i./ac/year of propiconazole.									
Marazo	Propiconazole	91234-25-92488	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	10,000 lb	--	--
Other Use Requirements: Maximum 24 fl oz/ac/year. Do not apply more than 0.67 lb a.i./ac/year of propiconazole.									
Mazolin	Azoxystrobin (11)	92647-2-92488	Fruit (group 10-10) 15 20 (dried pulp) 40 (oil)	0	NO	4	10,000 lb	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for use in nursery propagation.									
Mefenoxam 2 AQ	Mefenoxam (4)	53883-433	Nonbearing	12 months	NO	48	--	--	--
Other Use Requirements: Do not use in greenhouse citrus nursery stock intended for commercial fruit production.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Mentor EC	Propiconazole (3)	100-780 100-1562	1000 (oil) Fruit (group 10-10) 8	PH ⁸	NO	0	--	--	--
Other Use Requirements: Postharvest use. Make no more than 2 postharvest applications.									
MetaStar 2E 4S	Metalaxyl (4)	71532-5-91026 71532-36-91026	1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	--	--
Other Use Requirements: Do not use in greenhouse citrus nursery stock. Do not apply more than 6 gal/ac/year.									
MilStop SP	Potassium bicarbonate (NC)	70870-1-68539 68539-13	Exempt	0	NO	1	--	--	--
Other Use Requirements: None									
Miravis Top	Pydiflumetofen (7) Difenoconazole (3)	100-1602	P Fruit (group 10-10) 1 P Oil 30	0	NO	12	--	--	--
Other Use Requirements: Maximum 24 fl oz/acre/year. Do not apply more than 0.67 lb a.i./ac/year of propiconazole.									
Mycoshield**	Calcium oxytetracycline (41)	55146-97	Fruit (group 10-10) 0.01	40	YES	12	--	--	--
Other Use Requirements: Do not use more than 4.5 lb or 0.82 a.i. oxytetracycline/ac/season. **Supplemental label expires 6/28/2020									
Nufarm Propiconazole SPC 14.3 MEC	Propiconazole (3)	228-623	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	24	--	--	--
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz. propiconazole/ac/season.									
Omni Brand Propiconazole 41.8% EC	Propiconazole (3)	38167-35-5905	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz propiconazole/ac/season.									
Orondis	Oxathiapiprolin (49)	100-1571	Fruit (group 10-10) 0.06 0.09 (dried pulp) 2.0 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not use in a nursery. Do not apply sequentially more than two soil applications or one foliar application.									
OSO 5%SC	Polyoxin D zinc salt (19)	68173-4-70051	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 4.3 oz a.i./ac/year.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1	
OxiDate 2.0 5.0 Tree and Vine	Peroxyacetic acid (NC) Hydrogen dioxide (NC)	70299-12 70299-28 70299-28	P Exempt HD Exempt when ≤ 1% per application	0	YES	1	500 (Peroxyacetic acid) 1000 (hydrogen peroxide)	--	500 (Peroxyacetic acid) 1000 (hydrogen peroxide)
Other Use Requirements: Posting required when applying through chemigation; consult the label.									
OxiPhos	mono + dipotassium salts of Phosphorous Acid (P 07) Hydrogen peroxide (NC)	70299-22	Exempt when ≤ 1% per application	0	NO	4	1000 (hydrogen peroxide)	--	1000 (hydrogen peroxide)
Other Use Requirements: None									
PacRite Azoxy 250 SC	Azoxystrobin (11)	42750-261-64864	15 (Fruit group 10-10) 20 (dried pulp) 40 (oil)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only. Do not make more than 2 postharvest applications.									
PacRite FDL	Fludioxonil (12)	64864-70	500 (oil) 10 (fruit group 10-10)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only. Do not make more than 2 postharvest applications.									
PacRite Fungaflo 500 EC 75 WSF	Imazalil (3)	43813-6-64864 43813-26-64864	200 (oil) 10 (PH fruit) 25 (dried pulp)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only.									
PacRite Penbotec EC 400 SC	Pyrimethanil (9)	43813-32-64864	150 (oil) 10.0 (fruit group 10-10)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only. May be applied to citrus fruits by a maximum combination of three application methods.									
PacRite TBZ 4.0 SC	Thiabendazole (1)	64864-66	15 (oil) 10 (fruit group 10)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only.									
PerCarb	Sodium Carbonate Peroxyhydrate (NC)	70299-15	Exempt	0	NO	1	--	--	--
Other Use Requirements: Do not apply through an irrigation system or directly to the soil.									
Ph-D fungicide	Polyoxin D zinc salt (19)	66330-56	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 6 applications of polyoxin as the active ingredient (4.2 oz a.i./ac) per season.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Phostrol	Mono- + dibasic sodium, potassium and ammonium salts (P 07)	55146-83	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Pilato SC	Fludioxonil (12)	91234-93	500 (oil) 10 (fruit group 10-10)	PH ⁸	NA	NA	10,000	--	--
Other Use Requirements: Do not make more than 2 applications to fruit.									
PPZ 41.8 Select	Propiconazole (3)	89442-3	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	--	--	--
Other Use Requirements: Do not use more than 0.67 lb a.i. or 24 fl oz propiconazole/ac/season.									
Presidio Fungicide	Fluopicolide (43)	59639-140	1.0 (oil) 0.03 (dried pulp) 0.01 fruit (group 10-10)	30	NO	12	--	--	--
Other Use Requirements: Do not make more than 1 application or 12 fl oz/ac/year.									
Priaxor Xemium	Pyraclostrobin (11) Fluxapyroxad (7)	7969-311	P 12.5 (dried pulp) P 9.0 (oil) P fruit (group 10-10) 2.0 F 3.0 (dried pulp) F 40 (oil) F fruit (group 10-10) 1.0	0	NO	12	--	--	--
Other Use Requirements: No more than 4 (44 oz) applications/ac/year.									
Pristine	Pyraclostrobin (11) Boscalid (7)	7969-199	P 12.5 (dried pulp) P 9.0 (oil) P fruit (group 10-10) 2.0 B 4.5 (dried pulp) B 85.0 (oil) B fruit (group 10-10) 2.0	0	NO	12	--	--	--
Other Use Requirements: No more than 74 oz/ac/year (1.17 lb boscalid, 0.592 lb pyraclostrobin).									
Procidic Concentrate	Citric acid (NC)	--	Exempt	0	NO	NA	--	--	--
Other Use Requirements:									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
ProCon-Z	Propiconazole (3)	34704-879	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 0.67 lb a.i. propiconazole/ac/season.									
ProPensity 1.3ME	Propiconazole (3)	60063-27	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 0.67 lb a.i. propiconazole/ac/season. Use up to 5.4 gal/ac/year.									
ProPhyt	Potassium phosphite (P 07)	42519-22-5905	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Propi-Star EC	Propiconazole (3)	42750-211	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	226 gal 100 lb naphthalene
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propi-Star EC/ac/season.									
Propicon 3.6EC	Propiconazole (3)	87290-7	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propicon 3.6 EC/ac/season.									
Propiconazole 1.3 ME T&O	Propiconazole (3)	42750-252	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propicon 3.6 EC/ac/season.									
Propiconazole 3.6 EC	Propiconazole (3)	69361-40	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	10,000	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propiconazole 3.6 EC/ac/season.									
Propiconazole 14.3	Propiconazole (3)	53883-363 66222-41	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	10,000	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propiconazole 3.6 EC/ac/season.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Propiconazole 14.3 Select	Propiconazole (3)	89442-17	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) Propiconazole 3.6 EC/ac/season.									
Propicure 3.6F	Propiconazole (3)	83222-18	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	100 (Naphthalene)
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) product/ac/season.									
Propiczone	Propiconazole (3)	83529-22-91026	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) product/ac/season.									
PropiMax EC	Propiconazole (3)	62719-346	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) PropiMax EC/ac/season.									
Propizol	Propiconazole (3)	74578-8	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) PropiMax EC/ac/season.									
Provysof	Mefentrifluconazole (3)	7969-411	2.0 (dried pulp) 15 (oil)	0	NO	12	--	--	--
Other Use Requirements: Do not apply more than 15 fl oz (0.39 a.i.)/ac/year.									
PVent	<i>Gliocladium catenulatum</i> strain J1446 (BM 02)	64137-13-70299	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Pyrac 2EC	Pyraclostrobin (11)	87290-64	12.5 (dried pulp) 9.0 (oil) fruit (group 10) 2.0	0	NO	12	1000 (ethylene oxide)		1463528.9
Other Use Requirements: No more than 54 fl oz (0.88 lb a.i.)/acre/season. No more than 2 sequential applications.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Quilt	Azoxystrobin (11) Propiconazole (3)	100-1178	A fruit (group 10-10) 15.0 A 20 (dried pulp) A 40 (oil) P Nonbearing P 1000 (oil) P Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 82.5 fl oz Quilt/ac/year. Do not apply more than 0.68 lb a.i. propiconazole/ac/year. Do not apply more than 1.5 lb a.i. azoxystrobin/ac/season. Not for nursery use. No more than 3 applications per year.									
Rampart	Mono- and dipotassium salts of phosphorous acid (P 07)	34704-924	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply at intervals less than 3 days.									
ReCon 4 F	Metalaxyl (4)	91234-64	1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	0	NO	48	10,000 lb	--	--
Other Use Requirements: Do not apply more than 3 gal (12 lb a.i.)/treated ac/year. Do not exceed 3 applications/year. Do not use in nurseries.									
Regalia PTO	<i>Reynoutria sachalinensis</i> extract (P 05)	84059-3-87865	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Regulate Select	Metalaxyl (4)	89442-16	Nonbearing 1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	12 months	NO	24	--	--	--
Other Use Requirements: Do not use in nurseries where stock is intended for commercial production.									
Reliant	Mono- and dipotassium salts of phosphorous acid (P 07)	83416-1	Exempt	0	NO	4	--	--	1000 potassium hydroxide
Other Use Requirements: None									
ReLoad	Mono- and dibasic sodium, and ammonium phosphites (P 07)	87865-1	Exempt	0	NO	12	--	--	--
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷	
Rendition	Peroxyacetic acid (NC) Hydrogen peroxide (NC)	68660-14-70051	P Exempt HP Exempt when ≤ 1% per application	0	YES	1	1	2	
Other Use Requirements: None									
Resist 57	Mono- and dipotassium salts of phosphorous acid (P 07)	82940-1	Exempt	0	NO	4	--	--	
Other Use Requirements: Do not apply at intervals less than 3 days. Do not use more than the highest rate/application.									
Reveille	Potassium phosphite (P 07)	42519-22-5905	Exempt	0	NO	4	--	--	
Other Use Requirements: No more than 3 applications.									
Revus	Mandipropamid (40)	100-1254	0.70 (dried pulp) 15 (oil) 0.50 (fruit, group 10-10)	0	NO	4	--	--	
Other Use Requirements: For field use, do not apply more than 16 fl oz (0.26 lb a.i.) of product/acre/season. In nurseries, do not apply more than 32 fl oz (0.52 lb a.i.) of product/acre/season.									
Ridomil Gold GR	Mefenoxam (4)	100-798	1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	>14,000	
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./ac of mefenoxam-containing products. Do not apply more than 240 lb/ac/year. Do not use in nurseries.									
Ridomil Gold SL	Mefenoxam (4)	100-1202	1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	>3,500 gal	
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./ac of mefenoxam-containing products. Do not use in nurseries.									
Root Shield AG Granules	<i>Trichoderma harzianum</i> , Rifai strain T-22 (BM 02)	68539-4 68539-3	Exempt	0	NO	AG 4 G 0	--	--	
Other Use Requirements: Do not tank mix Root Shield AG with imazalil, propiconazole, tebuconazole, or triflumizole.									
Root Shield Plus Granules Plus WP	<i>Trichoderma harzianum</i> Rifai strain T-22 (BM 02) <i>T. virens</i> strain G-41 (BM 02)	68539-10 68539-9	Exempt	0	NO	G 0 WP 4	--	--	
Other Use Requirements: None									
Root Shield WP	<i>Trichoderma harzianum</i> , Rifai strain KRL-AG2 (BM 02)	68539-7	Exempt	0	NO	0	--	--	
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Satori	Azoxystrobin (11)	34704-1068	Fruit (group 10-10) 150 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season. Not for nursery use.									
Serenade ASO MAX OPTI (Optimum) Soil	<i>Bacillus subtilis</i> strain QST 713 (44BM 02)	264-1152 264-1151 264-1160 264-1152	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Serifel Biofungicide	<i>Bacillus amyloliquifaciens</i> MBI 600 (44BM 02)	71840-18	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Shepherd	Propiconazole (3)	69117-3	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 5.4 gal (0.67 lb a.i.)/ac/season.									
Shield-Brite TBZ 500D 99WP	Thiabendazole (1)	64864-66 64864-68	15 (oil) 10 (fruit group 10)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Postharvest only.									
Slant 41.8% EC	Propiconazole (3)	91234-25 91232-2-91234	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	12	10,000 lb	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.)/ac/season.									
SNS-209 Organic Systemic Pest Control	Rosemary and Rosemary oil (NC)	NA	Exempt	0	NO	0	--	--	--
Other Use Requirements: None									
Sonata	<i>Bacillus pumilis</i> strain QST-2808 (44BM 02)	264-1153	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
SOPP Soap	Sodium Ortho-phenylphenate (NC)	64864-45	10	PH ⁸	NA	NA	--	--	--

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Other Use Requirements: Postharvest only.									
Stargus	<i>Bacillus amyloliquifaciens</i> (44BM 02)	84059-28	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Strider	Propiconazole (3)	228-623	Nonbearing 1000 (oil) Fruit (group 10-10) 8	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 5.4 gal (0.67 lb a.i.)/ac/season.									
Subdue GR MAXX	Mefenoxam (4)	100-794 100-796	Nonbearing 1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	12 months	NO	48	--	--	--
Other Use Requirements: Nonbearing. Do not exceed the equivalent 6 lb a.i./ac of mefenoxam-containing products. Do not use in greenhouse nursery stock intended for commercial use.									
Tenet WP	<i>Trichoderma asperillum</i> Strain ICC 012 (BM 02) <i>T. gamsii</i> strain ICC 080 (BM 02)	80289-9	Exempt	0	NO	1	--	--	--
Other Use Requirements: Not compatible with imazalil, dichloran, mancozeb, propiconazole, tenbuconazole, thiram, and triflumizole. Do not tank-mix or apply Tenet within 3 days before or after use of these products.									
Tetranab	Azoxystrobin (11)	1381-267	Fruit (group 10-10) 15.0 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season.									
Tide Propiconazole 41.8EC	Propiconazole (3)	84229-11	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	--
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) PropiMax EC/ac/season.									
Tilt	Propiconazole (3)	100-617	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	>1,000 gal
Other Use Requirements: Do not apply more than 0.67 lb a.i. (24 fl oz/ac/season) of Tilt.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		RQ (lb a.i.) ⁷
							TPQ (lb a.i.) ⁶	1 2	
Topaz	Propiconazole (3)	42750-211-1381	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	226 gal
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) PropiMax EC/ac/season.									
TREVO fungicide	Azoxystrobin (11)	89167-39-89391 89168-41-89391	Fruit (group 10-10) 15.0 20 (dried pulp) 40 (oil)	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season.									
Triathlon BA	<i>Bacillus amyloliquefaciens</i> strain D747 (44BM 02)	70051-107-59807	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Trilogy	Neem oil extract (IRAC 18) (NC)	70051-2	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply while bees are actively foraging. Do not apply within 5 days of a sulfur application.									
TurfShield Plus WP	<i>Trichoderma harzianum</i> Rifai strain T-22 (BM 02) <i>Trichoderma virens</i> strain G-41 (BM 02)	68539-9	Exempt	0	NO	4	--	--	--
Other Use Requirements: Not compatible with imazalil, propiconazole, tenbuconazole, and triflumizole. Do not tank-mix or apply TurfShield within 3 days before or after use of these products.									
Ultra Flourish	Mefenoxam (4)	55146-73	1.0 fruit, citrus 7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	--	100 lb (Naphthalene)
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./ac (24 pints) of mefenoxam-containing products. No more than 3 applications/season.									
Vacciplant	Laminarin (P 04)	83941-2-66330	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Veltyma	Pyraclostrobin (11) Mefentrifluconazole (3)	7969-409	P 12.5 (dried pulp) P 9.0 (oil) P Fruit (group 10-10) 2.0 M 2.0 (dried pulp) M 15 (oil)+++	0	NO	12	--	--	--
Other Use Requirements: Do not apply more than 30 fl oz (0.39 lb mefentrifluconazole and pyraclostrobin)/ac/year. Do not make more than 3 applications.									

Trade Name or Generic Name	Common Name (FRAC MOA) ¹	EPA Registration Number ²	Tolerance Fruit (ppm) ³	Days to Harvest	Field Posting Required ⁴	REI Hr	EPCRA ⁵		
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷	
Velum Prime	Fluopyram (7)	264-1078	1.0 fruit, (group 10-10) 8.0 (oil)	7	NO	12	1	2	
Other Use Requirements: Do not exceed the equivalent 0.446 lb a.i./ac (13.7 fl oz) of fluopyram-containing products. Apply via chemigation.									
Willowood Azoxy 25C	Azoxystrobin (11)	87290-44	Fruit (group 10-10) 15.0 20 (dried pulp) 40 (oil)	0	NO	4	--	--	
Other Use Requirements: Do not apply more than 92.3 fl oz/ac/season for all uses or 1.5 lb a.i./ac/season.									
Willowood Propicon 3.6EC	Propiconazole (3)	87290-7	Nonbearing 1000 (oil) Fruit (group 10-10) 8.0	12 months	NO	12	--	--	
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i./ac/season).									
Willowood Pyrac 2EC	Pyraclostrobin (11)	87290-64	12.5 (dried pulp) 9.0 (oil) Fruit (group 10-10) 2.0	0	NO	12	1,000 lb Ethylene oxide	--	
Other Use Requirements: Do not apply more than 54 fl oz (0.88 lb a.i./ac/season).									

¹ Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY-624, *Pesticide Resistance and Resistance Management*, in the 2020–21 Florida Citrus Production Guide for more details.

² Extracted from product labels, Code of Federal Regulations and other federal and state regulations.

³ A letter before the number indicates to which common name the tolerance refers.

⁴ Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.

⁵ Emergency Planning and Community Right-To-Know Act. Information presented here is not intended to take the place of the actual regulation. Call the State Emergency Response Commission at 1-800-635-7179 for additional details.

⁶ Threshold Planning Quantity. If the grower meets or exceeds this amount, notification must be made. Placard vehicle not a facility. (1 = active ingredient is a gas, is molten, is in solution, or is a fine powder; 2 = is a granular or other larger particle form.)

⁷ The amount of active ingredient that when spilled or released requires reporting to authorities within a 15-minute time frame. Should be reported by telephone to 850-413-9919 or 800-320-0519.

⁸ NA = not available.

⁹ SL = See Label for use restrictions.

¹⁰ Section 18 effective 12/31/2019–12/31/2020.

¹¹ Supplemental label expires 6/28/2020.

Table 6. Pesticides registered for use on Florida citrus—herbicides.

Trade Name or Generic Name	Common Name (HRAC MOA) ⁸	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Aim EC	Carfentrazone-ethyl (E)	279-3241	0.1	3	NO	12	1	2	
Other Use Requirements: None									
Alion	Indaziflam	264-1106	0.01	7	NO	12	--	--	
Other Use Requirements: 24(c) SLN No. FL-110004; for application in citrus groves to trees established less than one year.									
Broadworks	mesotrione	100-1131	0.01	30	NO	12	--	--	
Other Use Requirements: Do not exceed 6 fl oz/ac at the first application. Do not exceed 12 fl oz/ac or more than 3 applications within a 12-month period. Allow at least 5 months between applications at 6 fl oz/ac, and at least 6 weeks between applications of 6 fl oz/ac and subsequent applications at 3 fl oz/ac.									
Bromacil Hyvar X	Bromacil Bromacil (C1)	352-287	0.1	0	NO	12	--	--	
Other Use Requirements: See Best Management Practice guidelines.									
Bromacil + Diuron Krovar I DF	Bromacil + Diuron (C1, C2)	352-505	0.1, 1	0	NO	12	--	--	
Other Use Requirements: See Best Management Practice guidelines.									
Chateau SW	Flumioxazin	59639-99	0.02	3	NO	12	--	--	
Other Use Requirements:									
Diuron	Diuron (C2)		NA ⁷	0	NO	12	100	--	
Direx 4L		66222-54							
Diuron 4L		19713-36 (Drexel)							
Diuron 4L		9779-329 (Winfield Solutions LLC)							
Diuron 4L		66222-54 (Mana)							
Diuron 4L		34704-854 (Loveland)							
Diuron 80		352-692							
Diuron 80		19713-274 (Drexel)							
Diuron 80DF		9779-318 (Agrisolutions)							
Diuron 80DF		66222-51 (Mana)							
Diuron 80 WDG		34704-648							
Karmex DF		66222-51							
Other Use Requirements: None									
Fusilade DX	Fluazifop-P-butyl (A)	100-1070		14 days	NO	12	--	--	
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (HRAC MOA) ⁸	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Glyphosate	Glyphosate (G)		0.5	1	NO	4 to 12*	--	--	--
Buccaneer		55467-10							
Buccaneer Plus		55467-9							
Credit Extra		71368-65				4 to 12*			
Durango		62719-517							
Durango DMA		62719-556							
Glyphomax		62719-323							
Glyphomax Plus		62719-322							
Honcho		524-445							
Honcho Plus		524-454							
Mad Dog		34704-889				4			
Mad Dog Plus		34704-890							
Ranger Pro		524-517							
Roundup PowerMax		524-549							
Roundup WeatherMax		524-537							
Touchdown HiTech		100-1182							
Other Use Requirements: None; *See labels for REI details.									
Goal	Oxyfluorfen (E)	(2.0 E) 62719-424	Nonbearing	12 months	NO	24	--	--	--
Other Use Requirements: None									
Landmaster II	Glyphosate + 2,4-D (G, O)	SLN FL 00-0004 524-376	5	7	NO	48	--	--	--
Other Use Requirements: See Florida State Statute SE-2.033 and supplemental labeling.									
Matrix	Rimsulfuron	352-556	0.01	3	NO	4	--	--	--
Matrix FNV		352-671							
Matrix SG		352-768							
Other Use Requirements: RESTRICTED PESTICIDE. ⁶									
Paraquat dichloride	Paraquat dichloride (D)								
Gramoxon SL2.0		100-1431	0.05N	1	NO	24	10	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE. ⁶									

Trade Name or Generic Name	Common Name (HRAC MOA) ⁸	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Pendimethalin	Pendimethalin (K1)						1	2	
Prowl H ₂ O		241-418		1 day	NO	24	--	--	
Other Use Requirements: None									
Poast Plus	Sethoxydim (A)	7969-88	0.5	15	NO	12	--	--	
Other Use Requirements: None									
Remedy Ultra	Triclopyr (O)	62719-552 SLN FL 080004	NA	NA	NO	Until dry	--	--	
Rely 280	Glufosinate ammonium	264-829	0.15	14	NO	12	--	--	
Other Use Requirements: None									
Simazine	Simazine (C1)		Grapefruit—0.25 Oranges—0.25	NA ⁷	NO	12	--	--	
Princep Caliber 90		100-603							
Princep 4L		100-526							
Simazine 4L		19713-60							
Simazine 4L		9779-296							
Simazine 4L		19713-60							
Simazine 4L		34704-687							
Simazine 90DF		19713-252							
Simazine 90DF		100-603-33270							
Simazine 90DF		9779-295							
Simazine 90DF		19713-252							
Simazine 90WDG		34704-686							
Sim-Trol 90DF		35915-12-60063							
Other Use Requirements: None									
Solicam	Norflurazon (F1)	100-849	0.2	30	NO	12	--	--	
Other Use Requirements: None									
Surflan Oryzalin 4 A.S.	Oryzalin (K1)	(AS) 70506-43 66222-138	0.05	--	NO	24	--	--	
Other Use Requirements: None									
Treevix	Saflufenacil	7969-276	0.03	1	NO	12	--	--	
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (HRAC MOA) ⁸	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		
							TPQ (lb a.i.) ⁴	RQ (lb a.i.) ⁵	
Treflan HFP	Trifluralin (K1)	62719-250	0.05	--	NO	12	10	10,000	10
Other Use Requirements: None									
¹ Extracted from product labels, Code of Federal Regulations and other federal and state regulations.									
² Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.									
³ Emergency Planning and Community Right-To-Know Act. Information presented here is not intended to take the place of the actual regulation. Call the State Emergency Response Commission at 1-800-635-7179 for additional details.									
⁴ Threshold Planning Quantity. If the grower meets or exceeds this amount, notification must be made. Placard vehicle not a facility. (1 = active ingredient is a gas, is molten, is in solution, or is a fine powder; 2 = is a granular or other larger particle form.)									
⁵ The amount of active ingredient that when spilled or released requires reporting to authorities with a 15-minute time frame. Should be reported by telephone to 850-413-9919 or 800-320-0519.									
⁶ A certification license is required to purchase and apply or must be under the supervision of a licensee and only for those uses covered by the certified applicator's certification.									
⁷ NA = not available.									
⁸ Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY-624, Pesticide Resistance and Resistance Management , in the 2020–21 <i>Florida Citrus Production Guide</i> for more details.									

Table 7. Pesticides registered for use on Florida citrus—plant growth regulators and other products.

Trade Name or Generic Name	Common Name (Active Ingredients)	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		RQ (lb a.i.) ⁵
							TPQ (lb a.i.) ⁴		
Citrus Fix	2,4-Dichlorophenoxyacetic acid	5481-145	3	7	NO	12	1	2	--
Other Use Requirements: RESTRICTED PESTICIDE. ⁶									
Ascend	Cytokinin + Gibberellic Acid + Indole-3-butyric Acid	9779-335 (SL)1381-253 (WSG)1381-254	Exempt	NA	NO	4			
Other Use Requirements: None									
Cytokin Bioregulator Concentrate	Cytokinin	90930-3	Exempt	NA	NO	4			
Other Use Requirements: None									
Cytoplex HMS	Cytokinin + Gibberellic Acid + Indole-3-butyric Acid	90930-6	Exempt	NA	NO	4			
Other Use Requirements: None									
Drexel Sprout-Stop	Potassium Salt of maleic hydrazide	19713-2	Nonbearing	--	NO	12			
Other Use Requirements: None									
Falgro	Gibberellic Acid	(20SP) 62097-3-82917 (4L) 62097-2-82917	Exempt	0	NO	4			
Other Use Requirements: None									
Gib Gro	Gibberellic Acid	(4 LS) 55146-62 (20%) 55146-53	Exempt	NA	NO	4	--	--	--
Other Use Requirements: None									
Hivol-44	2,4-Dichlorophenoxyacetic acid	5481-509	3	7	NO	12	--	--	--
Other Use Requirements: None									
Homobrassinolide	Homobrassinolide	69361-49	Exempt	15	NO	4			
Other Use Requirements: None									
Hormodin 3	Indole-3-butyric Acid	59807-3	Propagation	--	--	--			
Other Use Requirements: None									
InLine Soil Fumigant	Trans 1,3-dichloropropene + chloropicrin	62719-348	Replant	NA ⁸	YES	5 days	0	10,000	0
Other Use Requirements: SL. ⁷ See label for geographic restrictions in Florida.									
KickStand PGR	Indole-3-butyric Acid	5905-540	Exempt	NA	NO	4			
Other Use Requirements: None									
K Salt Fruit Fix 200	1-Naphthaleneacetic acid	5481-414	0.1	150	NO	24	--	--	--
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (Active Ingredients)	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		RQ (lb a.i.) ⁵
							TPQ (lb a.i.) ⁴		
N-Large	Gibberellic Acid	57538-18	Exempt	7	NO	12	1	2	
Other Use Requirements: None									
PGR IV	Gibberellic Acid + Indole-3-butyric Acid	51036-260	Nonbearing	--	NO	4			
Other Use Requirements: None									
Petroleum Oil	FC-412-66 FC-435-66 FC-455-88 470 oil	See Table 3	Exempt	0	NO	4	--	--	--
Other Use Requirements: See Sulfur (Table 2).									
ProGibb	Gibberellic acid	(4%) 73049-15 (40%) 73049-1 (LV)73049-498	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Radiate	Cytokinin + Indole-3-butyric Acid	34704-909	Exempt	NA	NO	4			
Other Use Requirements: None									
Receptor	Cytokinin + Gibberellic Acid + Indole-3-butyric Acid	5905-594	Exempt	NA	NO	4			
Other Use Requirements: None									
Rhizopon AA #3	Indole-3-butyric Acid	63310-21	Propagation	--	NO	0			
Other Use Requirements: None									
Stimplex	Cytokinin	75287-3	Exempt	0	NO	4			
Other Use Requirements: None									
Stimulate Power	Cytokinin + Gibberellic Acid	57538-38	Exempt	NA	NO	4			
Other Use Requirements: None									
Stimulate Yield Enhancer	Cytokinin + Gibberellic Acid + Indole-3-butyric Acid	57538-13	Exempt	NA	NO	4			
Other Use Requirements: None									
Stimulate Fruit Thinner	Cytokinin + Gibberellic Acid	57538-36	Exempt	NA	NO	4			
Other Use Requirements: None									
Telone	Trans 1,3-dichloropropene (II, EC) or plus chloropicrin (C17, C35)	(II) 62719-32 (EC) 62719-321 (C17) 62719-12 (C35) 62719-302	Replant	NA ⁸	YES	5 days	0	10,000	100
Other Use Requirements: SL. ⁷ See label for geographic restrictions in Florida.									
Validate	Cytokinin	34704-910	Exempt	40	NO	4			
Other Use Requirements: None									

Trade Name or Generic Name	Common Name (Active Ingredients)	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		RQ (lb a.i.) ⁵
							TPQ (lb a.i.) ⁴		
X-Cyte	Cytokinin	57538-15	Exempt	NA	NO	4	1	2	
Other Use Requirements: None									
Vapam HL	Metam-sodium (SMCD)	5481-468	Replant	NA ⁸	YES	48	0	10,000	100
Other Use Requirements: SL ⁷									

¹ Extracted from product labels, Code of Federal Regulations and other federal and state regulations.
² Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.
³ Emergency Planning and Community Right-To-Know Act. Information presented here is not intended to take the place of the actual regulation. Call the State Emergency Response Commission at 1-800-635-7179 for additional details.
⁴ Threshold Planning Quantity. If the grower meets or exceeds this amount, notification must be made. Placard vehicle not a facility. (1 = active ingredient is a gas, is molten, is in solution, or is a fine powder; 2 = is a granular or other larger particle form.)
⁵ The amount of active ingredient that when spilled or released requires reporting to authorities with a 15-minute time frame. Should be reported by telephone to 850-413-9919 or 800-320-0519.
⁶ A certification license is required to purchase and apply or must be under the supervision of a licensee and only for those uses covered by the certified applicator's certification.
⁷ SL = See Label for use restrictions.
⁸ NA = Not available.
⁹ Postharvest use only.