

2011 Florida Citrus Pest Management Guide: Pesticides Registered for Use on Florida Citrus¹

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The following are lists of products which 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 nematocides, 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.

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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
3 LB Copper Flowable	copper hydroxide	24.4	5905-491-AA	ND	ND	ND	ND	ND
Badge SC	copper oxychloride + copper hydroxide	20	80289-3	X	X	X	ND	X
Badge X ₂	copper oxychloride + copper hydroxide	28	80289-12	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	46923-2	X	ND	ND	ND	ND
Champ Dry Prill	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
Champion WP	copper hydroxide	50	55146-1	X	ND	ND	ND	X
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	50	34704-326	ND	ND	ND	ND	ND
Copper-Count-N	copper ammonium complex	8	10465-3	X	ND	X	ND	ND
Copper Sulfate Crystals	copper sulfate pentahydrate	25	56576-1	ND	ND	ND	ND	ND
Triangle Brand Copper Sulfate Instant Powder	copper sulfate pentahydrate	25.2	1278-5	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
Eradicator	copper sulfate pentahydrate	5	66675-4	ND	ND	ND	ND	ND
Kentan DF	copper hydroxide	40	80289-2	X	ND	X	ND	X
Kocide 2000	copper hydroxide	35	352-656	X	X	X	X	X
Kocide 3000	copper hydroxide	30	352-662	X	X	X	X	X
Magna-Bon CS 2005	copper sulfate pentahydrate	5.0	66675-3	ND	ND	ND	ND	X
Nordox	cuprous oxide	50.1	48142-1	ND	ND	ND	ND	ND

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
Nordox 75 WG	cuprous oxide	75	48142-4	ND	ND	ND	ND	ND
Nu-Cop 3L	copper hydroxide	24.4	42750-75	ND	ND	ND	ND	ND
Nu-Cop HB	copper hydroxide	50	42750-132	ND	ND	ND	ND	ND
Nu-Cop 50DF	cupric hydroxide	50	45002-4	ND	ND	X	ND	ND
Nu-Cop 50 WP	copper hydroxide	50	45002-7	ND	ND	ND	ND	ND
Quimag Copper Sulfate Crystals	basic copper sulfate	25.2	73385-1	ND	ND	ND	ND	ND
Stretch	copper hydroxide	2.16	68292-3	ND	ND	ND	ND	ND
Tenn-Cop 5E	copper salts of fatty and rosin acids	5.14	1812-381	ND	ND	ND	ND	ND
Top-Cop with Sulfur	tribasic copper sulfate + sulfur	4.4	57538-6	ND	ND	ND	ND	ND

¹Percentage of metallic copper.

²X - 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.

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	Citrus Rust Mite	Broad Mite
Citrusperse Sulfur	sulfur	90%	5905-350	X	-	ID	ID	ID
Cosavet DF	sulfur	80%	70905-1	X	-	ID	ID	ID
Dusting Sulfur	sulfur	98%	34704-735	X	-	ID	ID	ID
Kolodust	sulfur	84%	34704-733	X	-	ID	ID	ID
Kumulus DF	sulfur	80%	51036-352	X	X	+	+	+
Liquid Sulfur Six	sulfur	52%	5905-437	X	-	ID	ID	ID
Micro Sulf	(micronized) sulfur	80%	55146-75	X	X	ID	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	+	+	+

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
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

¹X 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, ineffective for spider mites, and efficacy data on pink citrus rust mites are incomplete.

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

Company	Trade Name	Mid Point Boiling Range	EPA No. ¹	Efficacy ²	
				Greasy Spot	Citrus Rust Mite
Brandt	SAF-T-SIDE	435°F	48813-1	ID	ID
BVA	Spray 10	407°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 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	+	+
Helena Chemical	Omni Oil 6-E	415°F	5905-368	ID	ID
Petro-Canada/Loveland Products	BioCover UL	415°F	69526-5/34704-806	ID	+
Petro-Canada/Loveland Products	BioCover MLT	435°F	69526-6/34704-805	+	+
Petro-Canada/Loveland Products	BioCover LS	455°F	69526-8/34704-808	+	+
Petro-Canada/Loveland Products	BioCover SS	470°F ³	69526-7/34704-809	+	+
Loveland Products	Glacial Spray Fluid	435°F	34704-849	ID	ID
Petro-Canada	PureSpray Green	435°F	69526-9	ID	ID

¹Most 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.

³470 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 and Nematicides.

						EPCRA ³			
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	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Abacus	Abamectin (6)	81578-1 83100-4-83979	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/A (0.047 lb ai/A) 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/A (0.047 lb ai/A) 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/A (0.047 lb ai/A) 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 ai/A and 7 days for rates greater than 0.5 lb ai/A.									
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 ai/A and 7 days for rates greater than 0.5 lb ai/A.									
Acramite-50WS	Bifenazate (UN)	400-503	Nonbearing	12 months	NO	12	--	--	--
Other Use Requirements: One application per year.									
Actara 25 WG	Thiamethoxam (4)	100-938	0.4	0	NO	12	--	--	--
Other Use Requirements: Do not exceed a total of 11.0 oz/Acre (0.172 lb a.i./A) 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.									

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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	
							1	2
Admire 2 F (see also Provado)	Imidacloprid (4)	264-758	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 ai/A/yr).								
Admire Pro	Imidacloprid (4)	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 ai/A/yr).								
Advise 2 FL	Imidacloprid (4)	1381-205	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 ai/A/yr).								
Agri-Flex miticide/insecticide	Abamectin (6) Thiamethoxam (4)	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/A of Agri-Flex or more than 0.047 lb ai/A of any foliar applied abamectin product or more than 0.172 lb ai/A 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/A (0.047 lb ai/A) of any abamectin product in a growing season.								
Alias 2F	Imidacloprid (4)	00264-00758-66222	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 ai/A/yr).								
Applaud 70DF IGR	Buprofezin (16)	71711-21	2	3	NO	12	--	--
Other Use Requirements: Limit to 2 applications per year.								
Assail 30SG	Acetamiprid (4)	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 ai or 29.3 oz product per acre per crop.								
Assail 70WP	Acetamiprid (4)	8033-23-4581	0.5	7	NO	12	--	--
Other Use Requirements: Limit to 5 applications per year. Limit to 0.55 lb ai or 12.5 oz of product per acre per crop.								

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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	
							1	2
Atrapa Malathion (1B) (see also Fyfanon and Malathion)		(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 bees. 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.								
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								
Aziphosmethyl (see also Guthion)	Aziphosmethyl salts (1B)	(50W) 51036-164	2	30	NO	2-30 days	10	10,000
Other Use Requirements: RESTRICTED PESTICIDE ⁷ - liquid formulation only. Limit to 2 appl/season. Highly toxic to honeybees. ⁶ See label for REI details.								

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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	
							1	2
<i>Bacillus thuringiensis</i>	B.t. aizawai Strain		Exempt	0	NO	4	--	--
Agree	GC-91 (11)	70051-47						
Biobit HP	B.t. kurstaki Strain	73049-54						
Conдор	ABTS-351	70051-78						
Crymax	B.t. kurstaki Strain	70051-86						
Deliver	EG2348	70051-69						
DiPel DF	B.t. kurstaki Strain	73049-39						
Javelin WG	EG7841	70051-66						
Lepinox WDG	B.t. kurstaki	70051-89						
XenTari DF	B.t. kurstaki Strain	73049-40						
	H0-1							
	B.t. kurstaki							
	B.t. kurstaki Strain							
	EG7826							
	B.t. aizawai Strain							
	ABTS-1857							
Other Use Requirements: None								
Bifenthrin EC	Bifenthrin (3)	70506-57	0.05	1	NO	12	--	10,000
Bifenthrin 2 EC AG		66330-336						
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 ai/A/yr.								
Bifenture EC	Bifenthrin (3)	70506-57	0.05	1	NO	12	--	--
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 ai/A/yr.								
BioVector 355	<i>Steinernema riobravis</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 ai/A and 7 days for rates greater than 0.5 lb ai/A.								
Brigade 2 EC	Bifenthrin (3)	279-3313	0.05	1	NO	12	--	10,000

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							1	2	
RQ (lb a.i.) ⁵									
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 ai/A/yr.									
Brigade WSB	Bifenthrin (3)	00279-03108	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.									
Capture 2EC	Bifenthrin (3)	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 ai/A/yr.									
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. Do not apply more than 20 qts 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 ai/A and 7 days for rates greater than 0.5 lb ai/A.									
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. ⁷ 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.									
Couraze 1.6F	Imidacloprid (4)	264-763-67760	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.									
Couraze 2F	Imidacloprid (4)	264-758-67760	0.7	0	NO	12	--	--	--

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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
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 or compounds containing free lime, or calcium foliar nutrients. Minimum of 30 days between applications.								
Danilom 2.4 EC Spray	Fenprothrin (3)	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 ai) 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: Limit 1 pint per acre in Florida. Do not use with highly alkaline materials such as lime or Bordeaux.								
Dicofol 4E	Dicofol (UN)	66222-56	10	7	NO	12	--	10,000
Other Use Requirements: Limit 2 applications per year. Toxic to fish.								
Dimate 4 EC	Dimethoate (1B)	51036-110-9779 9779-273	2	15-45 depending on rate	NO	48	500	10,000
Other Use Requirements: Limit to 2 applications to mature fruit. Highly toxic to honeybees. ⁶ Toxic to aquatic organisms.								
Dimethoate 2.67 EC 2.67 EC 267 4 EC 4 EC 4 400 4 E 5 lb E 267	Dimethoate (1B)	19713-232 34704-489 51036-198 5905-493 19713-231 10163-160 34704-207 51036-110, 34704-207-67760, 66330-223 5905-497 10163-56	2	15 or 45 (depending on rate)	NO	48	500	10,000
Other Use Requirements: Limit to 2 applications to mature fruit. Highly toxic to honeybees. ⁶ Toxic to aquatic organisms.								

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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
Other Use Requirements: None								
Extinguish	Methoprene (7A)	2724-475	Exempt	0	NO	4	--	--
Other Use Requirements: None								
Fanfare 2EC	Bifenthrin (3)	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.								
Fyfanon Malathion (1B) (see also Malathion and Atrapa)	(56.4%) 5905-196 (8 lb emulsion) 5905-250-ZA (ULV) 67760-34 SLN FL-40004		8	7	NO	12	--	10,000
Other Use Requirements: Highly toxic to honeybees. ⁶								
GF-120	Spinosad (5)	62719-359	0.3	0	NO	4	--	--
GF-120 NF		62719-498						
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
Other Use Requirements: RESTRICTED PESTICIDE. ⁷								
Guthion Azinphosmethyl (1B) (see also Azinphosmethyl)	(2 L) 3125-102, 264-721 (S P) 3125-301		2	30	NO	2-30 days	10	10,000
Other Use Requirements: RESTRICTED PESTICIDE ⁷ - 2 L formulation only; Limit to 2 app/season; Highly toxic to honeybees. ⁶ See label for REI details.								
Imida E-AG 2 F	Imidacloprid (4)	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 ai/A/yr).								
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.								
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 ai/A/yr).								
Intrepid 2F	Methoxyfenozide (18)	62719-442	10	1	NO	4	--	--

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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	
							1	2
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 ai) 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								
Kelthane	Dicofol (UN)	707-202 62719-405	10	7	NO	12	--	10,000 10
Other Use Requirements: Applicators must be in an approved enclosed cab or cockpit. Toxic to fish. Limit to 2 applications per season.								
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 lbs per acre per season.								
Lorsban (see also Chlorpyrifos)	Chlorpyrifos (1B)	(4E) 62719-220 (50-W) 62719-221, 62719-221-10163 (15G) 62719-34 (75WG) 62719-301, 62719-301-10163	1	Foliar - 21 Soil - 28	NO (YES)	5 days	100	10,000 1
Other Use Requirements: Foliar - Highly toxic to honeybees. ⁶ Limit to 2 appl/season with 30 day interval; Soil - Limit to 3 appl/season with maximum of 10 qts/acre/season. 4E Formulation is RESTRICTED PESTICIDE. ⁷								
Macho 2.0 FL	Imidacloprid (4)	42750-110	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 AI/acre/year).								

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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	
							1	2
Malathion Malathion (1B) (see also Fyfanon and Atrapa) 57 EC 5 EC 8 Aquamul 8 E 8 EC 8 Flowable 8 Spray		34704-108 51036-104 34704-474 9779-5 1386-124 34704-452 34704-119, 51036-214 10163-21 2935-83	8	7	NO	12	--	10,000
Other Use Requirements: Highly toxic to honeybees. ⁶								
Micromite 25WS Micromite 4L Micromite 80WGS		400-471 400-476 (SLN-FL-960014) 400-487	0.5	21	NO	12	--	10,000
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Toxic to aquatic invertebrates.								
Mocap EC	Ethoprop (1B)	264-458 SLN-FL-870001	Nonbearing	12 months	YES	48	1,000	10,000
Other Use Requirements: RESTRICTED PESTICIDE. ⁷ Acute dermal toxicity.								
Montana 2F	Imidacloprid (4)	83100-7-83979	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 ai/A/yr).								
Movento	Spirotetramat (23)	264-1050	0.6	1	NO	24	--	--
Other Use Requirements: Do not apply more than 20 fl oz/A (0.32 lb ai/A) per crop season. Do not apply within 10 days prior to bloom, during bloom, or until petal fall is complete.								
M-Pede	Potassium salts of fatty acids	53219-6 15G62119-34 62719-515	Exempt	0	NO	12	--	--
Other Use Requirements: Do not mix with chlorothalonil, Formetanate hydrochloride, Fosetyl-Al, gibberellic acid, Mancozeb, or sulfur.								
Mustang Insecticide	Zeta-cypermethrin (3)	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 ai) per crop season. Do not make applications less than 14 days apart. Highly toxic to bees, do not apply during bloom.								

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

							EPCRA ³		
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	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Mustang Max EW	Zeta-cypermethrin (3)	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 ai) per crop season. Do not make applications less than 14 days apart. Highly toxic to bees, do not apply during bloom.									
Neemix 4.5	Azadirachtin (UN)	70051-9	Exempt	0	NO	12	--	--	--
Other Use Requirements: None									
Nexter Miticide/Insecticide	Pyridaben (21)	81880-4-10163	0.5	7	NO	12	--	--	--
Other Use Requirements: Highly toxic to honeybees ⁶ and fish. Do not exceed 2 appl/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 (4)	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 ai/A/yr).									
Nuprid 2F	Imidacloprid (4)	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 ai/A/yr).									
Nuprid 4.6F Pro	Imidacloprid (4)	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 ai/A/yr).									
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									
Orthene	Acephate (1B)	(75 S) 59639-26 (97) 59639-91	Nonbearing	12 months	NO	24	10	10,000	1

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

						EPCRA ³		
Trade Name or Generic Name	Common Name (IRAC MOA) ⁹	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
						REI Hr	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 ai/A and 7 days for rates greater than 0.5 lb ai/A.								
Pasada 1.6F	Imidacloprid (4)	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 ai/A/yr).								
Phaser 3EC	Endosulfan (2)	264-638	Nonbearing	12 months	NO	24	10	10,000
Other Use Requirements: Toxic to fish, birds and other wildlife.								
Platinum 75 SG	Thiamethoxam (4)	100-1291	0.4	0	NO	12	--	--
Other Use Requirements: Do not exceed a total of 3.67 oz/Acre (0.172 lb a.i./A) of Platinum 75 SG 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.								
Portal	Fenpyroximate (21)	71711-19	0.6	14	NO	12	--	--
Other Use Requirements: Do not apply more than 4 pts per season.								
Prey 1.6	Imidacloprid (4)	34704-894	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 ai/A/yr).								
Prokil Cryolite 96	Sodium aluminofluoride (UN)	10163-41	7	15	NO	12	--	--
Other Use Requirements: Do not apply more than 90 lbs 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 (4)	264-763	0.7	0	NO	12	--	--
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 oz/acre/season (0.5 lb ai/A/yr).								
Pyganic EC 1.4 II	Pyrethrins (3)	1021-1771	1	0	NO	12	--	1
Pyganic EC 5.0 II	Pyrethrins (3)	1021-1772	1	0	NO	12	--	1
Other Use Requirements: None								
Pyrellin E.C.	Pyrethrins (3) Rotenone (21)	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: None								

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

						EPCRA ³			
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	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
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/A (0.047 lb ai/A) of any abamectin product in a growing season.									
Savey 50 DF	Hexythiazox (10)	10163-250	Nonbearing	12 months	NO	12	--	--	--
Other Use Requirements: Limit 1 application per year. Toxic to fish and aquatic invertebrates.									
Sevin Carbaryl (1A) (see also Carbaryl)		(80 S) 264-316 (4 F) 264-349 (XLR) 264-333 (SL) 432-1227 (80WSP) 264-526 (80 WSP) 432-1226	10	5	NO	12	--	10,000	100
Other Use Requirements: Do not apply more than 20 lb a.i./acre/year for all uses. Highly toxic to honeybees. Toxic to aquatic invertebrates.									
Sniper	Bifenthrin (3)	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 ai/A/yr.									
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.									
Supracide	Methodathion (1B)	10163-236 (2E) 10163-244 (25-W)	Mandarin - 6 Others - 2	14 or 60 See label	NO	48	500	10,000	500
Other Use Requirements: RESTRICTED PESTICIDE ⁷ ; Highly toxic to honeybees ⁶ ; Only 2 appl/season at least 45 days apart; One appl/season to lemons if mixed with oil.									
Surround WP	Kaolin (NR)	70060-00014	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Temik Brand 15G	Aldicarb (1A)	(15G) 264-330	0.3	Lemon - 30 Others - 0	YES	48	100	10,000	1
Other Use Requirements: RESTRICTED PESTICIDE ⁷ ; Notification of intent to apply is required. Apply between Nov. 15 and April 30. SL ⁸ for BMP based on soil type. Application of Temik in Florida citrus will no longer be permitted after December 31, 2011.									
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/A (0.047 lb ai/A) of any abamectin product in a growing season.									

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

							EPCRA ³		
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	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Thionex 3EC	Endosulfan (2)	66222-63	Nonbearing	12 months	NO	24	10	10,000	1
Thionex 50W		66222-62					10	10,000	
Thionex 50 WSB		66222-61					--	10	
Other Use Requirements: Limit to 2 applications per season. Limit to 3 lbs ai per acre per season.									
Torrent 1.6F	Imidacloprid (4)	60063-32	0.7	0	NO	12	--	--	--
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 40 fl oz/acre/season (0.5 lb ai/A/yr).									
Torrent 2 F	Imidacloprid (4)	60063-31	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 ai/A/yr).									
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 appl/12-month period with at least a 60-day interval.									
Vydate L	Oxamyl (1A)	352-372	3	7	NO	48	100	10,000	1
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 (4)	34704-893	0.7	0	NO	12	--	--	--
Other Use Requirements: Highly toxic to honeybees. ⁶ Toxic to aquatic invertebrates. Limit to 32 fl oz/acre/season (0.5 lb ai/A/yr).									
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/A (0.047 lb ai/A) 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 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 or is a fine powder; 2 = is a granular or other larger particle form)									

Table 4. Pesticides Registered for Use on Florida Citrus – Insecticides, Acaricides and Nematicides.

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
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, <i>Pesticide Resistance and Resistance Management</i> , in the 2011 Florida Citrus Pest Management 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	
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷
Abound 2.08 F	Azoxystrobin (11)	100-1098	20 (dried pulp) 40 (oil)	0	NO	4	--	--
Other Use Requirements: Do not apply more than 92.3 fl oz/acre/season for all uses or 1.5 lb ai/acre/season or other MOA Group 11.								
Actinovate AG	<i>Streptomyces lydicus</i> WYE 408	73314-1	Exempt	0	NO	1	--	--
Other Use Requirements: None								
Agri-Fos	Mono- and di-potassium salts of phosphorous acid (33)	71962-1	Exempt	0	NO	4	--	--
Other Use Requirements: None								
Aliette WDG	Fosetyl AL (33)	264-516	5	30	NO	12	--	--
Other Use Requirements: Do not exceed 4 appl/season or 20 lb/acre/year; for foliar application, do not exceed 500 GPA.								
Armcarb 100	Potassium bicarbonate (NC)	5905-541-AA	Exempt	0	NO	4	--	--

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	EPCRA ⁵	
						REI Hr	TPQ (lb a.i.) ⁶
Other Use Requirements: None							
Banner MAXX	Propiconazole (3)	100-741	Nonbearing	NA ⁸	NO	12	--
Other Use Requirements: Nonbearing only.							
Banner MAXX II	Propiconazole (3)	100-1326	Nonbearing	NA	NO	12	--
Other Use Requirements: Nonbearing only.							
Bumper 41.8EC	Propiconazole (3)	66222-42	Nonbearing	NA	NO	24	--
Other Use Requirements: Nonbearing only or within 12 months of harvestable fruit; do not apply more than 24 fl oz/acre/season of Bumper 41.8EC. Do not apply more than 0.67 lb a.i./acre/season of propiconazole.							
Copper fungicides	Various (M1)	See Table 1	Exempt	0	NO	SL ⁹	--
Other Use Requirements: None							
Enable 2 F	Fenbuconazole (3)	62719-416	5.0 (dried pulp) 40 (oil)	0	NO	12	--
Other Use Requirements: No more than 3 applications/year; no more than 0.38 lb (24 fl oz Enable) a.i./acre/year; Minimum retreatment interval is 21 days.							
Fathom 14.3 MEC	Propiconazole (3)	72112-3	Nonbearing	12 months	NO	24	10,000
Other Use Requirements: Do not apply more than 0.67 lb propiconazole/acre/season. Up to 5.4 gal/acre/year.							
Ferbam Granuflor	Ferbam (M3)	45728-7	4.0 (group 10)	1	NO	24	--
Other Use Requirements: None							
Fosphite Fungicide	Phosphorous acid, mono- and dipotassium salts (33)	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 copped-based products.							
Freshgard 700	Imazalil (3)	43813-6-8764	25.0 (dried pulp) 200.0 (oil) 10.0 (postharvest fruit)	PH ¹⁰	NA	NA	--
Other Use Requirements: None							

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	TPQ (lb a.i.) ⁶		EPCRA ⁵
							1	2	
Fungi-Phite	Phosphorous acid, mono- and dipotassium salts (33)	83472-1	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)	7	NO	12	--	--	--
Other Use Requirements: Do not apply more than 15.2 fl oz/acre/season for all uses. No more than 4 applications of Gem 500 SC or other MOA Group 11 fungicides/season.									
Gem 25 WG	Trifloxystrobin (11)	264-781	1.0 (dried pulp) 38 (oil)	7	NO	12	--	--	--
Other Use Requirements: Do not apply more than 32 oz/acre/season of Gem. No more than 4 applications of Gem or other MOA Group 11 fungicides/season.									
Graduate	Fludioxonil (12)	100-969	500 (oil)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: None									
Graduate A+	Fludioxonil (12) Azoxystrobin (11)	11-1308	F 500 (oil) A 20 (dried pulp) A 40 (oil)	PH ⁸	NA	NA	--	--	--
Other Use Requirements: Do not make more than 2 applications to citrus fruit.									
Headline	Pyraclostrobin (11)	7969-186	12.5 (dried pulp) 9.0 (oil)	0	NO	12	--	--	100 Naphthalene
Other Use Requirements: Do not apply more than 54 fl oz/acre/season. No more than 4 applications of Headline or other MOA Group 11 fungicides/season.									
Helena ProPhyt	Potassium phosphite (33)	42519-22-5905	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
HDH Foam 26	Sodium o-phenylphenate	83103-2	10	PH ⁸	NA	NA	--	--	--
Other Use Requirements: None									
Key/Plex 350	Yeast extract hydrolysate from <i>Saccharomyces cerevisiae</i>	73512-1	Exempt	0	NO	4	--	--	--

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	TPQ (lb a.i.) ⁶		EPCRA ⁵
							1	2	
Other Use Requirements: None									
Legion 80 WDG	Fosetyl-AI (33)	66222-161	5.0	30	NO	12	--	--	--
Other Use Requirements: For all application methods, do not exceed 4 applications or 20 lb/acre/year. Do not exceed 500 GPA for foliar applications.									
Linebacker WDG	Fosetyl AL (33)	61842-9	5.0	30	NO	12	--	--	--
Other Use Requirements: Do not exceed 4 applications or 20 lb/acre/year. Do not exceed 500 GPA for foliar applications.									
ManKocide	Mancozeb (M3) + copper hydroxide (M1)	352-690	Nonbearing	12 months	NO	24	--	--	--
Other Use Requirements: Nonbearing only.									
Mertect 340-F	Thiabendazole (1)	100-889	15 (oil)	PH ⁸	NA	12	--	--	--
Other Use Requirements: None									
Meta Star 2E AG	Metalaxyl (4)	71532-5-66330	7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	--	--
Other Use Requirements: Do not apply more than 6 gal/treated acre/year. May be applied up to 3 times/year.									
MilStop	Potassium bicarbonate (NC)	70870-1-68539	Exempt	0	NO	1	--	--	--
Other Use Requirements: None									
Orbit	Propiconazole (3)	100-702	Nonbearing	12 months	NO	12	--	--	>1,000 gal
Other Use Requirements: Nonbearing only. Do not apply more than 24 fl oz (0.67 lb a.i.) Orbit/acre/season.									
Oxidate	Hydrogen dioxide (NC)	70299-2	Exempt	0	YES	1	--	--	100 Naphthalene
Other Use Requirements: Posting required when applying through chemigation; consult the label.									
phorcepHite	mono potassium phosphate (33) mono potassium phosphite (33)	34704-1039	Exempt	0	NO	4	--	--	--
Other Use Requirements: Do not apply more than 4 times/crop cycle.									

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	TPQ (lb a.i.) ⁶		EPCRA ⁵
							1	2	
Phostrol	Mono- + dibasic sodium, potassium and ammonium salts (33)	55146-83	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
PlantShield HC	<i>Trichoderma harzianum</i> Rifia KRL-AG2	68539-4	Exempt	12 months	NO	1	--	--	--
Other Use Requirements: None									
Procon-Z	Propiconazole (3)	34704-879	Nonbearing	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 0.67 lb propiconazole/acre/season.									
ProPensify 1.3 ME	Propiconazole (3)	60063-27	Nonbearing	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 0.67 lb propiconazole/acre/season. Use up to 5.4 gal/acre/year.									
Propiconazole E-AG 41.8 EC	Propiconazole (3)	79676-70	Nonbearing	12 months	NO	24	10,000	--	100
Other Use Requirements: Do not apply more than 0.67 lb propiconazole/acre/season.									
Propiconazole E-Pro 4.3 MEC	Propiconazole (3)	79676-8	Nonbearing	12 months	NO	24	--	--	--
Other Use Requirements: Do not apply more than 0.67 lb propiconazole/acre/season. May use up to 5.4 gal/acre/year.									
PropiMax EC	Propiconazole (3)	62719-346	Nonbearing	12 months	NO	12	--	--	2,325
Other Use Requirements: Do not apply more than 24 fl oz (0.67 lb a.i.) PropiMax EC/acre/season.									
Pristine	Pyraclostrobin (11) Boscalid (7)	7969-199	P 12.5 (dried pulp) P 9.0 (oil) B 4.5 (dried pulp) B 8.5 (oil)	0	NO	12	--	--	--
Other Use Requirements: No more than 4 (74 oz) applications/acre/year.									

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	TPQ (lb a.i.) ⁶		EPCRA ⁵
							1	2	
Quadris Top	Azoxystrobin (11) Difenoconazole (3)	100-1313	A 20 (dried pulp) A 40 (oil) D 2.0 (dried pulp)	0	NO	12	--	--	--
<p>Other Use Requirements: Do not apply more than 61.5 fl oz/acre/season for all uses. Do not apply more than 0.5 lb a.i. difenoconazole/acre/season. Do not apply more than 1.5 lb a.i. azoxystrobin/acre/season. Not for nursery use.</p>									
Quilt Fungicide	Azoxystrobin (11) Propiconazole (3)	100-1178	Nonbearing	12 months	NO	12	--	--	--
<p>Other Use Requirements: Do not apply more than 0.67 lb a.i. propiconazole/acre/year. Do not apply more than 1.5 lb a.i. azoxystrobin/acre/season. Not for nursery use.</p>									
Rampant	Mono- and dipotassium salts of phosphorous acid (33)	34704-924	Exempt	0	NO	4	--	--	--
<p>Other Use Requirements: Do not apply at intervals less than 3 days.</p>									
Regalia	Reynoutria sachalinensis extract (P)	84059-3	Exempt	0	NO	4	--	--	--
<p>Other Use Requirements: None</p>									
Regalia SC	Reynoutria sachalinensis extract (P)	84059-2	Exempt	7	NO	24	--	--	--
<p>Other Use Requirements: Do not apply through irrigation. Do not apply with phytotoxic oil, no more than 6 applications/year.</p>									
Reveille	Potassium phosphite (33)	42519-22-5905	Exempt	0	NO	4	--	--	--
<p>Other Use Requirements: None</p>									
Ridomil Gold GR	Mefenoxam (4)	100-798	7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	--	>14,000
<p>Other Use Requirements: Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products. Do not apply more than 240 lb/acre/year.</p>									
Ridomil Gold SL	Mefenoxam (4)	100-1202	7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	--	>3,500 gal
<p>Other Use Requirements: Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.</p>									

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	TPQ (lb a.i.) ⁶		EPCRA ⁵
							1	2	
Root Shield Granules	<i>Trichoderma harzianum</i> , Rifol strain KRL-AG2	68539-3	Nonbearing	12 months	NO	0	--	--	--
Other Use Requirements: Nonbearing.									
Serenade ASO	QST 713 strain of <i>Bacillus subtilis</i> (44)	69592-12	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Serenade MAX	QST 713 strain of <i>Bacillus subtilis</i> (44)	69592-11	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Soilgard 12 G	Strain GI-21 of <i>Gliocladium virens</i>	70051-3	Nonbearing	12 months	NO	0	--	--	--
Other Use Requirements: Nonbearing.									
Sonata	<i>Bacillus pumilis</i> strain QST-2808	69592-13	Exempt	0	NO	4	--	--	--
Other Use Requirements: None									
Sporatec	Clove Oil; Rosemary Oil; Thyme Oil	Exempt	Exempt	0	NO	0	--	--	--
Other Use Requirements: None									
Subdue GR	Mefenoxam (4)	100-794	Nonbearing	12 months	NO	48	--	--	--
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.									
Subdue Maxx	Mefenoxam (4)	100-796	Nonbearing	12 months	NO	48	--	--	--
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products. Do not use in greenhouse nurserystock intended for commercial production.									
Tilt	Propiconazole (3)	100-617	Nonbearing	12 months	NO	12	--	--	>1,000 gal
Other Use Requirements: Do not apply more than 0.67 lb a.i. (24 fl oz/acre/season) of Tilt.									
Tourney	Metconazole (3)	59639-144	Nonbearing	12 months	NO	12	--	--	--
Other Use Requirements: Nonbearing.									

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	
							TPQ (lb a.i.) ⁶	RQ (lb a.i.) ⁷
Trilogy	Neem oil extract (IRAC 18) (NC)	70051-2	Exempt	1	NO	4	--	--
Other Use Requirements: Do not apply while bees are actively foraging. Do not apply within 5 days of a sulfur application.								
UltraFlourish	Mefenoxam (4)	55146-73	7.0 (oil) 7.0 (citrus pulp)	0	NO	48	--	2,380
Other Use Requirements: Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.								
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 2011 Florida Citrus Pest Management 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 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, in solution of 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 Post Harvest use only.								

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	Carfentrazone-ethyl (E)	279-3241	0.1	3	NO	12	--	--

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
Other Use Requirements: None								
Bromacil	Bromacil	352-287	0.1	0	NO	12	--	--
Hymar X	Bromacil (C1)							
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.								
Devrinol 50 DF	Napropamide (K3)	10182-258-70506	0.1	0	NO	12	--	--
Other Use Requirements: None								
Diuron	Diuron (C2)	1812-257	NA ⁷	0	NO	12	100	--
Direx 4L		1812-362						
Direx 80DF		19713-36						
Diuron 4L		19713-274						
Diuron 80 Karmex DF		352-692						
Other Use Requirements: None								
Fusilade	Fluazifop-P-butyl (A)	100-1070	Nonbearing	12 months	NO	12	--	--
Other Use Requirements: None								

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	
							1	2
Glyphosate Credit Extra Durango Durango DMA Glyphos Glyphos X-TRA Glyphomax Glyphomax Plus Glyphosate Original Glyphosate 41% Helosate Plus Honcho Honcho Plus Mirage Ranger Pro Roundup Original MAX Roundup Ultra MAX Roundup Weather MAX Touchdown HiTech	Glyphosate (G)	71368-20 62719-517 62719-556 4787-31 4787-23 62719-323 62719-322 352-607-1812 74530-4 74530-4 524-445 524-454 524-445-34704 524-517 524-539 524-512 524-537 100-1182	0.5	1	NO	4 to 12*	--	--
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								

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	TPQ (lb a.i.) ⁴		RQ (lb a.i.) ⁵
							1	2	
Landmaster	Glyphosate + 2,4-D (G, O)	SLN FL 200004 524-351	5	7	NO	48	--	--	--
Other Use Requirements: See Florida State Statute SE-2.033 and supplemental labeling.									
Mandate 2E	Thiazopyr (K1)	62719-431	Grapefruit - 0.05 Oranges - 0.05	0	NO	12	--	--	--
Other Use Requirements: None									
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)	1812-420	0.05N	0	NO	24	10	10,000	1
Boa		10182-372		1		12			
Gramoxone		100-1217							
Gramoxone Inteon									
Other Use Requirements: RESTRICTED PESTICIDE. ⁶									
Pendimethalin	Pendimethalin (K1)	68156-6-62719	Nonbearing	1 day 12 months 1 day	NO	24	--	--	--
Pendimax 3.3		241-337							
Prowl 3.3 EC		241-418							
Prowl H ₂ O									
Other Use Requirements: None									
Poast Plus	Sethoxydim (A)	7969-88-51036 7969-88	0.5	15	NO	12	--	--	--
Other Use Requirements: None									
Prism	Clethodim (A)	59639-78	Nonbearing	12 months	NA ⁷	24	--	--	--
Other Use Requirements: None									

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	
Remedy Ultra	Triclopyr (O)	62719-552	NA	NA	NO	Until dry	--	--	
Other Use Requirements: None									
Simazine	Simazine (C1)	100-603	Grapefruit - 0.25	NA ⁷	NO	12	--	--	
Princep Caliber 90		100-526	Oranges - 0.25						
Princep 4L		19713-60							
Simazine 4L		19713-252							
Simazine 90DF		35915-12-							
Sim-Trol 90DF		60063							
Other Use Requirements: None									
Solicam	Norflurazon (F1)	100-849	0.2	30	NO	12	--	--	
Other Use Requirements: None									
Surflan	Oryzalin (K1)	(AS) 62719-112	0.05	--	NO	24	--	--	
Oryzalin		72167-17-							
Oryzalin 4 A.S.		73220,							
Other Use Requirements: None									
Treevix	Saflufenacil	7969-276	0.03	1	NO	12	--	--	
Other Use Requirements: None									
Treflan HFP	Trifluralin (K1)	62719-250	0.05	--	NO	12	10	10,000	
Treflan TR-10		62719-131							
Trifluralin		51036-106-							
Triilin		37686							
Other Use Requirements: None									
1812-355									

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	EPCRA ³		
						REI Hr	1	2
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 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 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 2011 Florida Citrus Pest Management Guide for more details.								

Table 7. Pesticides Registered for Use on Florida Citrus – Other Products

Trade Name or Generic Name	Common Name	EPA Registration Number ¹	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required ²	REI Hr	EPCRA ³		RQ (lb a.i.) ⁵
							1	2	
Citrus Fix	2,4-Dichloro- phenoxyacetic acid	5481-145	5	7	NO	48	--	--	--
Other Use Requirements: RESTRICTED PESTICIDE.⁶									
Ethylene	Ethylene		Exempt	PH ⁹	NA	NA	--	--	--

Table 7. Pesticides Registered for Use on Florida Citrus – Other Products

Trade Name or Generic Name	Common Name	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
Other Use Requirements: SL. ⁷ See label for geographic restrictions in Florida.								
Tre-Hold	Ethyl 1-naphthalene acetate	5481-434	Nonbearing	12 months	NO	SL ⁷	--	--
Other Use Requirements: None								
Vapam HL	Metam-sodium (SMCD)	5481-468	Replant	NA ⁸	YES	48	0	10,000
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, 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 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 Post Harvest use only.								