

## 2008 Florida Citrus Pest Management Guide: Pesticides Registered for Use on Florida Citrus<sup>1</sup>

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M.E. Rogers, N.A. Peres and S.H. Futch<sup>2</sup>

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 nematicides, 2) fungicides, 3) herbicides, and 4) other products such as plant growth regulators and fumigants.

READ THE LABEL.

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  2. M.E. Rogers, assistant professor, Entomology and Nematology Department, Citrus REC, Lake Alfred, Florida; N.A. Peres, assistant professor, Plant Pathology Department, Gulf Coast REC, Wimauma, Florida; and S.H. Futch, extension agent IV, Citrus REC, Lake Alfred, Florida; Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, 32611.

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 (%) <sup>1</sup>	EPA Reg. No.	Evaluated for: <sup>2</sup>			
				Melanose	Greasy spot	Alternaria	Scab
Agri-San	copper sulfate pentahydrate	5	66675-4	ND	ND	ND	ND
Bac-Stop	copper hydroxide	50	55146-1-34704	ND	ND	ND	ND
Badge SC	copper oxychloride + copper hydroxide	20	80289-3	X	X	X	ND
Basic Copper 53	basic copper sulfate	53	45002-8	ND	ND	ND	ND
Basic Copper Sulfate	basic copper sulfate	53	46923-2	X	ND	ND	ND
Basicop	basic copper sulfate	53	1812-300	ND	ND	ND	ND
Champ Dry Prill	copper hydroxide	37.5	55146-57	X	X	X	X
Champ Formula 2 Flowable	copper hydroxide	24.4	55146-64	X	X	ND	X
Champion WP	copper hydroxide	50	55146-1	X	ND	ND	ND
COC DF	copper oxychloride	50	45002-17	ND	ND	ND	ND
COC WP	copper oxychloride	50	45002-17	ND	ND	ND	ND
C-O-C-S WDG	copper oxychloride + basic copper sulfate	50	34704-326	ND	ND	ND	ND
Copper-Count-N	copper ammonium complex	8	10465-3	X	ND	X	ND
Copper Sulfate Instant Powder	copper sulfate pentahydrate	5	1278-5	ND	ND	ND	ND
Cuprofix Disperss	basic copper sulfate	20	4581-396	X	X	X	ND
Kocide 101	copper hydroxide	50	1812-288	X	X	X	X
Kocide 2000	copper hydroxide	35	1812-358	X	X	X	X
Kocide 3000	copper hydroxide	30	352-662	X	X	ND	X
Kocide 4.5LF	copper hydroxide	24.4	1812-303	ND	ND	ND	ND
Kocide DF	copper hydroxide	40	1812-334	X	X	X	ND
KOP-Hydroxide	cupric hydroxide	24.4	19713-301	ND	ND	ND	ND
KOP-Hydroxide 50W	copper hydroxide	50	19713-321	X	ND	ND	ND
Nordox	cuprous oxide	50.1	48142-1	ND	ND	ND	ND
Nordox 75 WG	cuprous oxide	75	48142-4	ND	ND	ND	ND
Nu-Cop 3L	copper hydroxide	24.4	42750-75	ND	ND	ND	ND
Nu-Cop HB	copper hydroxide	50	42750-132	ND	ND	ND	ND
Nu-Cop 50DF	cupric hydroxide	50	45002-4	ND	ND	ND	X
Nu-Cop 50 WP	copper hydroxide	50	45002-7	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 (%) <sup>1</sup>	EPA Reg. No.	Evaluated for: <sup>2</sup>		
				Melanose	Greasy spot	Alternaria Scab
Stretch	copper hydroxide	2.16	68292-3	ND	ND	ND
Tenn-Cop 5E	copper salts of fatty and rosin acids	5.14	1812-381	ND	ND	ND

<sup>1</sup>Percentage of metallic copper.  
<sup>2</sup>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.

**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 <sup>1</sup> for Use on		Efficacy <sup>2</sup>	
				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 Dispers	(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

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

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

<sup>1</sup>X indicates product registered for control of citrus rust or broad mites; - = not registered.

<sup>2</sup>+ 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. <sup>1</sup>	Efficacy <sup>2</sup>	
				Greasy Spot	Citrus Rust Mite
Brandt	SAF-T-SIDE	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	470°F <sup>3</sup>	55206-4	ID	ID
Drexel	435 98.8	435°F	19713-394	ID	ID
Drexel	455 98.8	455°F	19713-396	ID	ID
Calumet	Orchex 692	412°F	75652-2	ID	+
Calumet	Orchex 796	435°F	75652-1	+	+
Calumet	Orchex 892	455°F	75652-3	+	+
Florida Citrus Production Inputs	455 soluble	455°F	71258-1	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	BioCover UL	415°F	69526-5-34704	ID	+
Petro-Canada	BioCover MLT	435°F	69526-6-34704	+	+
Petro-Canada	BioCover LS	455°F	69526-8-34704	+	+
Petro-Canada	BioCover SS	470°F <sup>3</sup>	69526-7-34704	+	+
Petro-Canada	Glacial	435°F	34704-849	ID	ID
SK Corporation	En Spray 99	455°F	75395-1	+	+
SK Corporation	En Spray N	455°F	75395-2	+	+

<sup>1</sup>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.

<sup>2</sup>+ = 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.

<sup>3</sup>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 and Nematicides

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							1	2
Abacus	Abamectin (6)	81578-1	0.02	7	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.								
ABBA 0.15EC	Abamectin (6)	72167-43-73220 72167-43-66222	0.02	7	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.								
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 97		70506-8-55467						
Acephate 97 UP		70506-8						
<b>Other Use Requirements:</b> None								
Acramite-50WS	Bifenazate (25)	400-503	Nonbearing	12 months	NO	12	--	--
<b>Other Use Requirements:</b> One application per year.								
Admire 2 F (see also Provado)	Imidacloprid (4)	264-758	0.7	0	NO	12	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year.								
Admire Pro	Imidacloprid (4)	00264-00827	0.7	0	NO	12	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 14 oz per acre per season.								
Advise 2 FL	Imidacloprid (4)	1381-205	0.7	0	NO	12	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb AI/acre/year).								
Agri-Mek 0.15 EC	Abamectin (6)	100-898	0.02	7	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals, and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.								

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	
Alias 2F	Imidacloprid (4)	00264-00758-66222	0.7	0	NO	12	--	--	
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Applaud 70DF IGR	Buprofezin (16)	71711-21	2	3	NO	12	--	--	
<b>Other Use Requirements:</b> Limit to 2 applications per year.									
Assail 30SG	Acetamiprid (4)	08033-00036-82695	0.5	7	NO	12	--	--	
<b>Other Use Requirements:</b> Limit to 5 applications per year. Limit to 0.55 lb a.i. or 29.3 oz product per acre per crop.									
Assail 70WP	Acetamiprid (4)	8033-23-4581	0.5	7	NO	12	--	--	
<b>Other Use Requirements:</b> 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	8.0	7	NO	12	--	10,000	
<b>Other Use Requirements:</b> 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	
<b>Other Use Requirements:</b> Limit to 2 applications per year.									
Aza-Direct	Azadirachtin (18)	71908-1-10163	Exempt	0	NO	4	--	--	
<b>Other Use Requirements:</b> None									
Azatin XL	Azadirachtin (18)	70051-27-59807	Exempt	0	NO	4	--	--	
<b>Other Use Requirements:</b> None									
Azatrol EC	Azadirachtin (18)	2217-836	Exempt	0	NO	4	--	--	
<b>Other Use Requirements:</b> None									
Azinphosmethyl (see also Guthion)	Azinphosmethyl salts (1B)	(50W) 51036-164	2	30	NO	2-30 days	10	10,000	
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> - liquid formulation only. Limit to 2 appl/season. Highly toxic to honeybees. <sup>6</sup> See label for REI details.									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup> 1	TPQ (lb a.i.) <sup>4</sup> 2
<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						
<b>Other Use Requirements:</b> None								
Bifenthrin EC	Bifenthrin (3)	70506-57	0.05	1	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>								
BioVector 355	<i>Steinernema riobravis</i> (NR)	NA	Exempt	--	--	--	--	--
<b>Other Use Requirements:</b> None								
Bracket 90	Acephate (1B)	51036-238-9779	Nonbearing	12 months	NO	24	--	10,000
<b>Other Use Requirements:</b> None								
Brigade 2 EC	Bifenthrin (3)	279-3313	0.05	1	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>								
Brigade WSB	Bifenthrin (3)	00279-03108	0.05	1	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Soil application only. Do not allow contact with fruit or foliage. Toxic to fish and aquatic organisms; highly toxic to honeybees.								

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Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	RQ (lb a.i.) <sup>5</sup>
Capture ZEC	Bifenthrin (3)	279-3069	0.05	1	NO	12	--	--	--
<b>Other Use Requirements:</b> None									
Carbaryl (see also Sevin)	Carbaryl (1A)	(4L) 19713-49, 34704-447 (80S) 19713-50	10	5	NO	12	10	10,000	1
<b>Other Use Requirements:</b> Highly toxic to aquatic invertebrates and honeybees. Do not apply more than 20 qts per acre per crop.									
Cheminova SP	Acephate (1B)	59639-26-67760	Nonbearing	12 months	NO	24	--	10,000	--
<b>Other Use Requirements:</b> None									
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
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> 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	--	--	--
<b>Other Use Requirements:</b> None									
Cornite	Propargite (12C)	400-104	5	21	YES	7 days	--	10,000	10
<b>Other Use Requirements:</b> 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	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Couraze 2F	Imidacloprid (4)	264-758-67760	0.7	0	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Cryolite 96, Prokil	Cryolite	10163-41	7	15	NO	12	--	--	--
<b>Other Use Requirements:</b> Do not mix with lime or compounds containing free lime, or calcium foliar nutrients. Minimum of 30 days between applications.									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	
Danitol	Fenprothrin (3)	59639-35	2	1	NO	24	--	10,000	100
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, aquatic organisms and honeybees. Do not apply during bloom.									
Dibrom 8 Emulsive	Naled (1B)	5481-479	3	7	NO	48	--	10,000	10
<b>Other Use Requirements:</b> 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	10
<b>Other Use Requirements:</b> Limit 2 applications per year. Toxic to fish.									
Dimate 4 EC	Dimethoate (1B)	51036-110-9779	2	15-45 depending on rate	NO	48	500	10,000	10
<b>Other Use Requirements:</b> Limit to 2 applications to mature fruit. Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic organisms.									
Dimethoate	Dimethoate (1B)		2	15 or 45 (depending on rate)	NO	48	500	10,000	10
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							
<b>Other Use Requirements:</b> Limit to 2 applications to mature fruit. Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic organisms.									
Distance	Pyriproxyfen (7C)	59639-96	Nonbearing	12 months	NO	12	--	10,000	100
<b>Other Use Requirements:</b> Limit 2 applications per season.									
Distance Fire Ant Bait	Pyriproxyfen (7C)	1021-1728-59639	Nonbearing	12 months	NO	12	--	--	--
<b>Other Use Requirements:</b> None									

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Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							1	2
DiTera ES	<i>Myrothecium verrucaria</i>	73049-43	Exempt	0	NO	4	--	--
DiTera DF	(NR)	73049-67						
<b>Other Use Requirements:</b> None								
Ecotrol EC	Peppermint oil Rosemary oil	Exempt	Exempt	0	NO	0	--	--
<b>Other Use Requirements:</b> None								
Ecozin 3% EC	Azadirachtin (18)	5481-476	Exempt	0	NO	12	--	--
<b>Other Use Requirements:</b> None								
Endosulfan 3EC	Endosulfan (2)	19713-00399	Nonbearing	Nonbearing	No	24	10	--
<b>Other Use Requirements:</b> Toxic to fish, birds and other wildlife. Limit to 2 applications per season.								
Entrust	Spinosad (5)	62719-282	0.3	1	NO	4	--	--
<b>Other Use Requirements:</b> Limit to 2 applications per year. Limit to 9 oz of product (0.45 lb a.i. spinosad) per acre per season.								
Envidor 2SC	Spirodiclofen (23)	00264-00831	0.5	7	NO	12	--	--
<b>Other Use Requirements:</b> 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
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.								
Esteem Ant Bait	Pyriproxyfen (7C)	59639-114	0.3	1	NO	12	--	--
<b>Other Use Requirements:</b> None								
Esteem 0.86 EC	Pyriproxyfen (7C)	59639-95	0.3	1	NO	12	--	10,000
<b>Other Use Requirements:</b> Limit to 2 applications per season. Limit to 26 fl oz per acre per season.								
Evergreen EC 60-6	Pyrethrins + piperonyl butoxide (27)	01021-01770	Pyrethrins (1) Piperonyl butoxide (8)	0	NO	12	10,000	--
<b>Other Use Requirements:</b> None								
Extinguish	Methoprene (7A)	2724-475	Exempt	0	NO	4	--	--
<b>Other Use Requirements:</b> None								

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							1	2	RQ (lb a.i.) <sup>5</sup>
Fanfare 2EC	Bifenthrin (3)	66222-99	0.05	1	NO	12	--	10,000	--
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Soil application only. Do not allow contact with fruit or foliage. Toxic to fish and aquatic organisms. Highly toxic to honeybees.									
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
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup>									
GF-120 GF-120 NF	Spinosad (5)	62719-359 62719-498	0.3	0	NO	4	--	--	--
<b>Other Use Requirements:</b> 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
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>									
Guthion (see also Azinphosmethyl)	Azinphosmethyl (1B)	(2 L) 3125-102, 264-721 (S P) 3125-301	2	30	NO	2-30 days	10	10,000	1
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> - 2 L formulation only; Limit to 2 appl/season; Highly toxic to honeybees. <sup>6</sup> See label for REI details.									
Imida E-AG 2 F	Imidacloprid (4)	81959-22	0.7	0	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb AI/acre/year).									
Imidan 70-W	Phosmet (1B)	10163-169 SLN FL-10006	5	7	NO	24	10	--	10
<b>Other Use Requirements:</b> 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	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 40 oz/acre/year (0.5 lb 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) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							1	2
Justice Fire Ant Bait	Spinosad (5)	62719-00329	0.3	0	NO	4	--	--
<b>Other Use Requirements:</b> None								
Kanemite 15SC	Acequinocyl (20B)	66330-00038	0.2	7	NO	12	--	--
<b>Other Use Requirements:</b> None								
Kelthane	Dicofol (UN)	707-202 62719-405	10	7	NO	12	--	10,000
<b>Other Use Requirements:</b> 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
<b>Other Use Requirements:</b> Limit to 2 applications per season. Limit to 26 fl oz product per acre per season.								
Kryocide	Cryolite (9)	4581-116	7	15	NO	12	--	--
<b>Other Use Requirements:</b> 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
<b>Other Use Requirements:</b> Foliar - Highly toxic to honeybees. <sup>6</sup> 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. <sup>7</sup>								
Macho 2.0 FL	Imidacloprid (4)	42750-110	0.7	0	NO	12	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 Al/acre/year).								

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>	
Malathion (see also Fyfanon and Atrapa)	Malathion (1B)		8	7	NO	12	--	10,000	100
57 EC		34704-108							
5 EC		51036-104							
8 Aquamul		34704-474							
8 E		9779-5							
8 EC		1386-124							
		34704-452							
8 Flowable		34704-119,							
8 Spray		51036-214							
		10163-21							
		2935-83							
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup>									
Micromite 25WS	Diflubenzuron (15)	400-471	0.5	21	NO	12	--	10,000	--
Micromite 4L		400-476							
		(SLN-FL-960014)							
Micromite 80WGS		400-487							
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to aquatic invertebrates.									
Mocap EC	Ethoprop (1B)	264-458	Nonbearing	12 months	YES	48	1,000	10,000	100
		SLN-FL-870001							
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Acute dermal toxicity.									
Montana 2F	Imidacloprid (4)	83100-7-83979	0.7	0	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb AI/acre/year).									
M-Pede	Potassium salts of fatty acids	53219-6	Exempt	0	NO	12	--	--	--
		15G62119-34							
		62719-515							
<b>Other Use Requirements:</b> Do not mix with chlorothalonil, Formetanate hydrochloride, Fosetyl-Al, gibberellic acid, Mancozeb, or sulfur.									
Neemix 4.5	Azadirachtin (18)	70051-9	Exempt	0	NO	12	--	--	--
<b>Other Use Requirements:</b> None									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							TPQ (lb a.i.) <sup>4</sup> 1	TPQ (lb a.i.) <sup>4</sup> 2	RQ (lb a.i.) <sup>5</sup>
Nemacur 3	Fenamiphos (1B)	264-731	0.6	30	YES	48	10	10,000	10
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> - liquid formulation only. Limited to 2 appl/season with 14-day interval. Do not apply during the period 5/01-10/14. See label for geographic restrictions in Florida. <b>Important Note:</b> Due to groundwater advisories, Nematicur use will not be permitted in sandy, well-drained soils in any county in Florida after 31 May 2005.									
Nexter Miticide/Insecticide	Pyridaben (21)	81880-4-10163	0.5	7	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees <sup>6</sup> 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
<b>Other Use Requirements:</b> Limit 3 applications per year.									
Nufos 4E	Chlorpyrifos (1B)	67760-28	1	21	YES	5 days	1,000	10,000	1
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Limit 2 applications per season.									
Nuprid 1.6F	Imidacloprid (4)	228-488	0.7	0	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Nuprid 2F	Imidacloprid (4)	228-484	0.7	0	NO	12	--	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Omite-30WS Omite-CR	Propargite (12C)	400-427 400-426	Nonbearing	12 months	YES	28 days	--	10,000	10
<b>Other Use Requirements:</b> 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	Metalddehyde	71096-7	--	0	NO	12	--	--	--
<b>Other Use Requirements:</b> None									
Orthene	Acephate (1B)	(75 S) 59639-26 (97) 59639-91	Nonbearing	12 months	NO	24	10	10,000	1
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to fish and birds.									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	
Pasada 1.6F	Imidacloprid (4)	00264-00763-66222	0.7	0	NO	12	--	--	
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Highly toxic to aquatic invertebrates. Limit to 32 oz per acre per season.									
Phaser 3EC	Endosulfan (2)	264-638	Nonbearing	12 months	NO	24	10	10,000	
<b>Other Use Requirements:</b> Toxic to fish, birds and other wildlife.									
Portal	Fenpyroximate (21)	71711-19	--	14	NO	12	--	--	
<b>Other Use Requirements:</b> Do not apply more than 4 pts per season.									
Prey 1.6	Imidacloprid (4)	34704-894	0.7	0	NO	12	--	--	
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 40 oz/acre/year (0.5 lb AI/acre/year).									
Prokil Cryolite 96	Sodium aluminofluoride (9)	10163-41	7	15	NO	12	--	--	
<b>Other Use Requirements:</b> 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	--	
<b>Other Use Requirements:</b> None									
Provado 1.6 F	Imidacloprid (4)	264-763	0.7	0	NO	12	--	--	
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 40 oz/acre/season.									
Pyganic EC 1.4 II	Pyrethrins (3)	1021-1771	1	0	NO	12	--	--	
Pyganic EC 5.0 II		1021-1772						1	
<b>Other Use Requirements:</b> None									
Pyrellin E.C.	Pyrethrins (3) Rotenone (21)	30573-2	1	5	NO	12	--	1	
<b>Other Use Requirements:</b> None									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							TPQ (lb a.i.) <sup>4</sup>	1 2 RQ (lb a.i.) <sup>5</sup>	
Reaper 0.15EC	Abamectin (6)	34704-923	0.02	7	NO	12	--	10,000	--
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.									
Savey 50 DF	Hexythiazox (10)	10163-250	Nonbearing	12 months	NO	12	--	--	--
<b>Other Use Requirements:</b> Limit 1 application per year. Toxic to fish and aquatic invertebrates.									
Sevin (see also Carbaryl)	Carbaryl (1A)	(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
<b>Other Use Requirements:</b> 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
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>									
Spintor	Spinosad (5)	62719-294	0.3	1	NO	4	--	--	--
<b>Other Use Requirements:</b> 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	--	--	--
<b>Other Use Requirements:</b> Do not apply within 21 days of an oil spray.									
Supracide	Methidathion (1B)	10163-236 (2E) 10163-244 (25-W)	Mandarin - 6 Others - 2	14 or 60 See label	NO	48	500	10,000	500
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> ; Highly toxic to honeybees <sup>6</sup> ; 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	--	--	--
<b>Other Use Requirements:</b> None									
Temik Brand 15G	Aldicarb (1A)	(15G) 264-330	0.3	Lemon - 30 Others - 0	YES	48	100	10,000	1
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> ; Notification of intent to apply is required. Apply between Nov. 15 and April 30. SL <sup>8</sup> for BMP based on soil type.									

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							1	2
Thionex 3EC	Endosulfan (2)	66222-63	Nonbearing	12 months	NO	24	10	10,000
Thionex 50W		66222-62					10	10,000
Thionex 50 WSB		66222-61					--	10
<b>Other Use Requirements:</b> Limit to 2 applications per season. Limit to 3 lbs a.i. per acre per season.								
Torrent 2 F	Imidacloprid (4)	60063-31	0.7	0	NO	12	--	--
<b>Other Use Requirements:</b> Highly toxic to honeybees. <sup>6</sup> Toxic to aquatic invertebrates. Limit to 32 oz/acre/year (0.5 lb A/acre/year).								
Vendex 50WP	Fenbutatin oxide (12B)	352-658	20	7	NO	48	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE <sup>7</sup> ; 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
<b>Other Use Requirements:</b> SL <sup>8</sup> ; RESTRICTED PESTICIDE. <sup>7</sup> Toxic to birds and mammals. Limit to 6 applications per year.								
Warhawk	Chlorpyrifos (1B)	62719-220-34704	1	21	YES	5 days	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>								
Whirlwind	Chlorpyrifos (1B)	62719-220-5905	1	21	YES	5 days	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup>								
Zoro Miticide/Insecticide	Abamectin (6)	67760-71	0.02	7	NO	12	--	10,000
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>7</sup> Toxic to fish, mammals and aquatic organisms. Highly toxic to honeybees. <sup>6</sup> Limit of 3 applications of abamectin per growing season.								
<sup>1</sup> Extracted from product labels, Code of Federal Regulations and other federal and state regulations.								
<sup>2</sup> Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.								
<sup>3</sup> 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.								
<sup>4</sup> 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)								

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

Trade Name or Generic Name	Common Name (IRAC MOA) <sup>9</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
<p><sup>5</sup>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.</p> <p><sup>6</sup>Will kill bees for 24 hours following application.</p> <p><sup>7</sup>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.</p> <p><sup>8</sup>SL = See Label for use restrictions.</p> <p><sup>9</sup>Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY624, Pesticide Resistance and Resistance Management, in the Florida Citrus Pest Management Guide for more details.</p>								

**Table 5.** Pesticides Registered for Use on Florida Citrus – Fungicides

Trade Name or Generic Name	Common Name (FRAC MOA) <sup>10</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
Abound	Azoxystrobin (11)	100-1098	0.1	0	NO	4	--	--
<b>Other Use Requirements:</b> None								
Agri-Fos	Mono- and di-potassium salts of phosphorous acid (13)	71962-1	Exempt	0	NO	4	--	--
<b>Other Use Requirements:</b> None								
Allette WDG	Fosetyl AL (13)	264-516	5	0.5	NO	12	--	--
<b>Other Use Requirements:</b> Do not exceed 4 appl/season.								

Table 5. Pesticides Registered for Use on Florida Citrus – Fungicides

Trade Name or Generic Name	Common Name (FRAC MOA) <sup>10</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	1 2 RQ (lb a.i.) <sup>5</sup>
Armcarb 100	Potassium bicarbonate	5905-541	Exempt	0	NO	4	--	--
<b>Other Use Requirements:</b> None								
Banner MAXX	Propiconazole (3)	100-741	Nonbearing	NA	NO	24	--	10,000
<b>Other Use Requirements:</b> Nonbearing only.								
Benlate	Benomyl (1)	352-354	10	2	NO	24	--	--
<b>Other Use Requirements:</b> Do not apply more than 4 lb per acre per season of Topsin or Benlate.								
Bumper 41.8EC	Propiconazole (3)	66222-42	Nonbearing	NA	NO	24	--	10,000
<b>Other Use Requirements:</b> Nonbearing only.								
Copper fungicides	Various (M9)	See Table 1	Exempt	0	NO	SL <sup>6</sup>	--	--
<b>Other Use Requirements:</b> None								
Enable	Fenbuconazole (3)	707-231	0.5	2	NO	12	--	--
<b>Other Use Requirements:</b> No more than 3 applications per year; no more than 0.375 lb a.i./acre.								
Ferbam Granuflo	Ferbam (M2)	45728-7	7	0	NO	24	--	--
<b>Other Use Requirements:</b> None								
Fosphite	Phosphorous acid, mono- and dipotassium salts (13)	68573-2	Exempt	0	NO	4	--	--
<b>Other Use Requirements:</b> None								
Fresh Mark	Sodium o-phenylphenate	64884-45	10	PH <sup>8</sup>	NA	NA	--	--
<b>Other Use Requirements:</b> None								
Freshgard 700	Imazalil (3)	43813-6-8764	10	PH <sup>8</sup>	NA	NA	--	--
<b>Other Use Requirements:</b> None								



Table 5. Pesticides Registered for Use on Florida Citrus – Fungicides

Trade Name or Generic Name	Common Name (FRAC MOA) <sup>10</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
Messenger	Harpin protein	69834-2	Exempt	0	NO	4	5,000	0
<b>Other Use Requirements:</b> None								
MilStop	Potassium bicarbonate	70870-1-68539	Exempt	0	NO	4	0	0
<b>Other Use Requirements:</b> None								
Orbit	Propiconazole (3)	100-702	Nonbearing	12 months	NO	24	--	10,000
<b>Other Use Requirements:</b> Nonbearing only.								
Oxidate	Hydrogen dioxide	70299-2	Exempt	0	NO	0	--	--
<b>Other Use Requirements:</b> None								
Phostrol	Phosphites sodium, potassium and ammonium salts (13)	55146-83	Exempt	0	YES	4	--	--
<b>Other Use Requirements:</b> None								
Propensity	Propiconazole (3)	60063-27	Nonbearing	12 months	NO	24	--	10,000
<b>Other Use Requirements:</b> None								
PropiMax EC	Propiconazole (3)	62719-346	Nonbearing	12 months	NO	24	--	10,000
<b>Other Use Requirements:</b> Nonbearing only.								
Quit	Azoxystrobin (11) Propiconazole (3)	100-1178	Nonbearing	12 months	NO	24	--	10,000
<b>Other Use Requirements:</b> None								
Ridomil Gold GR	Mefenoxam (4)	100-799	0	0	NO	48	--	--
<b>Other Use Requirements:</b> Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.								

Table 5. Pesticides Registered for Use on Florida Citrus – Fungicides

Trade Name or Generic Name	Common Name (FRAC MOA) <sup>10</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							TPQ (lb a.i.) <sup>4</sup>	TPQ (lb a.i.) <sup>5</sup>	
Ridomil Gold SL	Mefenoxam (4)	100-1202	0	0	NO	48	--	--	
<b>Other Use Requirements:</b> Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.									
Serenade MAX	QST 713 strain of <i>Bacillus subtilis</i>	69592-11	Exempt	0	NO	4	0	0	
<b>Other Use Requirements:</b> None									
Sporan	Rosemary Oil	66420-AB	Exempt	0	NO	0	0	0	
<b>Other Use Requirements:</b> None									
Subdue	Mefenoxam (4)	(GR) 100-794 (MAXX) 100-796	0	0	NO	Until dry	--	--	
<b>Other Use Requirements:</b> Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.									
Topaz	Potassium phosphite (13)	68573-2-1381	Exempt	0	NO	4	0	0	
<b>Other Use Requirements:</b> None									
Topsin M WSB <sup>9</sup>	Thiophanate methyl (1)	4581-377, 4581-408 73545-8	0.5	2	--	48	--	--	
<b>Other Use Requirements:</b> Section 18 Emergency Registration for postbloom fruit drop effective until March 2, 2008. Do not apply more than 4 lb per acre per season.									
Trilogy	Neem oil extract (IRAC 18)	70051-2	Exempt	0	NO	4	--	--	
<b>Other Use Requirements:</b> Do not apply while bees are actively foraging. Do not apply within 5 days of a sulfur application.									
UltraFlourish	Mefenoxam (4)	55146-73	0	0	NO	48	--	--	
<b>Other Use Requirements:</b> Do not exceed the equivalent 6 lb a.i./acre of mefenoxam-containing products.									

<sup>1</sup>Extracted from product labels, Code of Federal Regulations and other federal and state regulations.<sup>2</sup>Read product label for specific use precautions, especially Worker Protection Standards and environmental concerns.

**Table 5.** Pesticides Registered for Use on Florida Citrus – Fungicides

Trade Name or Generic Name	Common Name (FRAC MOA) <sup>10</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
<p><sup>3</sup>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.</p> <p><sup>4</sup>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)</p> <p><sup>5</sup>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.</p> <p><sup>6</sup>SL = See Label for use restrictions.</p> <p><sup>7</sup>NA = not available.</p> <p><sup>8</sup>Post Harvest use only.</p> <p><sup>9</sup>Sec. 18 emergency registration only effective until March 1, 2007.</p> <p><sup>10</sup>Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY624, Pesticide Resistance and Resistance Management, in the 2006 Florida Citrus Pest Management Guide for more details.</p>								

**Table 6.** Pesticides Registered for Use on Florida Citrus – Herbicides

Trade Name or Generic Name	Common Name (HRAC MOA) <sup>8</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
Aim	Carfentrazone-ethyl (E)	279-3241	0.1	3	NO	12	--	--
<b>Other Use Requirements:</b> None								
Bromacil								
Bromo	Bromacil	70506-83	0.1	0	NO	12	--	--
Hyvar X	Bromacil (C1)	352-287						
<b>Other Use Requirements:</b> See Best Management Practice guidelines.								

**Table 6.** Pesticides Registered for Use on Florida Citrus – Herbicides

Trade Name or Generic Name	Common Name (HRAC MOA) <sup>8</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							TPQ (lb a.i.) <sup>4</sup>		
							1	2	RQ (lb a.i.) <sup>5</sup>
Bromacil + Diuron Bromo-D Krovar I DF	Bromacil + Diuron (C1, C2)	70506-84 352-505	0.1, 1	0	NO	12	--	--	--
<b>Other Use Requirements:</b> See Best Management Practice guidelines.									
Devrinol 50 DF	Napropamide (K3)	10182-258-70506	0.1	0	NO	12	--	--	--
<b>Other Use Requirements:</b> None									
Diuron Direx 4L Direx 80DF Diuron 4L Diuron 80 Karmex DF	Diuron (C2)	1812-257 1812-362 19713-36 19713-274 1812-362	NA <sup>7</sup>	0	NO	12	100	--	--
<b>Other Use Requirements:</b> None									
Fusilade	Fluazifop-P-butyl (A)	100-1070	Nonbearing	12 months	NO	12	--	--	--
<b>Other Use Requirements:</b> None									

**Table 6.** Pesticides Registered for Use on Florida Citrus – Herbicides

Trade Name or Generic Name	Common Name (HRAC MOA) <sup>8</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	RQ (lb a.i.) <sup>5</sup>
Glyphosate	Glyphosate (G)		0.5	1	NO	4 to 12*	--	--	
Credit Extra		71368-20							
Durango		62719-517							
Glyfos		4787-31							
Glyfos X-TRA		4787-23							
Glyphomax		62719-323							
Glyphomax Plus		62719-322							
Glyphosate Original		352-607-1812							
Glyphosate 41%		74530-4							
Helosate Plus		74530-4							
Mirage		524-445-34704							
Roundup Original		524-445							
Roundup Original MAX		524-539							
Roundup Ultra MAX		524-512							
Roundup Weather MAX		524-537							
Touchdown HiTech		100-1182							
<b>Other Use Requirements:</b> None *See labels for REI details.									
Goal	Oxyfluorfen (E)	(2.0 E) 62719-424	Nonbearing	12 months	NO	24	--	--	
<b>Other Use Requirements:</b> None									
Landmaster	Glyphosate + 2,4-D (G, O)	SLN FL 200004 524-351	5	7	NO	48	--	--	
<b>Other Use Requirements:</b> 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	--	--	
<b>Other Use Requirements:</b> None									

Table 6. Pesticides Registered for Use on Florida Citrus – Herbicides

Trade Name or Generic Name	Common Name (HRAC MOA) <sup>8</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>	
							TPQ (lb a.i.) <sup>4</sup>	RQ (lb a.i.) <sup>5</sup>
Paraquat dichloride Boa	Paraquat dichloride (D)	1812-420	0.05N	0	NO	12	10	10,000
Gramoxone		10182-372						
Gramoxone Inteon		100-1217						
<b>Other Use Requirements: RESTRICTED PESTICIDE.<sup>6</sup></b>								
Pendimethalin	Pendimethalin (K1)	68156-6-62719	Nonbearing	1 day	NO	24	--	--
Pendimax 3.3		241-337		12 months				
Prowl 3.3 EC		241-418		1 day				
Prowl H2O								
<b>Other Use Requirements: None</b>								
Poast Plus	Sethoxydim (A)	7969-88-51036 7969-88	0.5	15	NO	12	--	--
<b>Other Use Requirements: None</b>								
Prism	Clethodim (A)	59639-78	Nonbearing	12 months	NA <sup>7</sup>	24	--	--
<b>Other Use Requirements: None</b>								
Simazine	Simazine (C1)	100-603	Grapefruit - 0.25	NA <sup>7</sup>	NO	12	--	--
Princep Caliber 90		100-526	Oranges - 0.25					
Princep 4L		19713-60						
Simazine 4L		19713-252						
Simazine 90DF		35915-11-60063						
Sim-Trol 4L		35915-12-60063						
Sim-Trol 90DF								
<b>Other Use Requirements: None</b>								
Solicam	Norflurazon (F1)	100-849	0.2	30	NO	12	--	--
<b>Other Use Requirements: None</b>								

**Table 6.** Pesticides Registered for Use on Florida Citrus – Herbicides

Trade Name or Generic Name	Common Name (HRAC MOA) <sup>8</sup>	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	EPCRA <sup>3</sup>		
							1	2	
Surflan	Oryzalin (K1)	(AS) 62719-112 72167-17-73220	0.05	--	NO	24	--	--	
<b>Other Use Requirements:</b> None									
Treflan HFP	Trifluralin (K1)	62719-250 62719-131	0.05	--	NO	12	10	10,000	
Treflan TR-10		51036-106-37686							
Trifluralin		1812-355							
Trilin									
<b>Other Use Requirements:</b> None									

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

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

<sup>3</sup>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.

<sup>4</sup>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)

<sup>5</sup>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.

<sup>6</sup>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.

<sup>7</sup>NA = not available.

<sup>8</sup>Mode of action class for citrus pesticides from the Insecticide, Fungicide, and Herbicide Resistance Action Committees. Refer to ENY624, Pesticide Resistance and Resistance Management, in the 2006 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 <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	TPQ (lb a.i.) <sup>4</sup>		EPCRA <sup>3</sup>
							1	2	
Citrus Fix	2,4-Dichloro-phenoxyacetic acid	5481-145	5	7	NO	48	--	--	--
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>6</sup>									
Ethylene	Ethylene		Exempt	PH <sup>9</sup>	NA	NA	--	--	--
<b>Other Use Requirements:</b> None									
Fruit Fix	Naphthalene-acetic acid	5481-130	0.1	150	NO	24	--	--	--
<b>Other Use Requirements:</b> None									
Gib Gro	Gibberellic acid	(2 LS) 55146-47 (20WP) 55146-53 (5WP) 55146-56	Exempt	--	NO	4	--	--	--
<b>Other Use Requirements:</b> None									
Hivol™-44 Hivol®-44	2,4-Dichloro-phenoxyacetic acid	5481-509 64864-31	5	7	NO	48	--	--	--
<b>Other Use Requirements:</b> RESTRICTED PESTICIDE. <sup>6</sup>									
InLine Soil Fumigant	Trans 1,3-dichloropropene + chloropicrin	62719-348	Replant	NA <sup>8</sup>	YES	5 days	0	10,000	0
<b>Other Use Requirements:</b> SL. <sup>7</sup> See label for geographic restrictions in Florida.									
Methyl bromide	Methyl bromide	SL <sup>7</sup> Numerous products	Replant	--	YES	48	2,500	--	1,000
<b>Other Use Requirements:</b> SL. <sup>7</sup> Use of methyl bromide for agricultural soil fumigation is scheduled for complete phase-out January 1, 2005. Continued use on a limited basis in citrus may occur after January 1, 2005 via an annual approval of specific Florida requests for Critical Use Exemptions (CUE).									
Petroleum Oil	FC-412-66 FC-435-66 FC-455-88 470 oil	See Table 3	Exempt	0	NO	4	--	--	--
<b>Other Use Requirements:</b> See Sulfur.									

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

Trade Name or Generic Name	Common Name	EPA Registration Number <sup>1</sup>	Tolerance Fruit (ppm)	Days to Harvest	Field Posting Required <sup>2</sup>	REI Hr	TPQ (lb a.i.) <sup>4</sup>		EPCRA <sup>3</sup>
							1	2	
ProGibb	Gibberellic acid	(4%) 73049-15 (2X) 73049-16	0.15	NS <sup>3</sup>	NO	4	--	--	--
<b>Other Use Requirements:</b> None									
Telone	Trans 1,3-dichloropropene (II, EC) or plus chloropicrin (C17, C35)	(II) 62719-32 (EC) 62719-32 (C17) 62719-12 (C35) 62719-302	Replant	NA <sup>8</sup>	YES	5 days	0	10,000	100
<b>Other Use Requirements:</b> SL <sup>7</sup> See label for geographic restrictions in Florida.									
Tre-Hold	Ethyl 1-naphthalene acetate	5481-434	Nonbearing	12 months	NO	SL <sup>7</sup>	--	--	--
<b>Other Use Requirements:</b> None									
Vapam HL	Metam-sodium (SMCD)	5481-468	Replant	NA <sup>8</sup>	YES	48	0	10,000	0
<b>Other Use Requirements:</b> SL <sup>7</sup>									

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

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

<sup>3</sup>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.

<sup>4</sup>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)

<sup>5</sup>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.

<sup>6</sup>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.

<sup>7</sup>SL = See Label for use restrictions.

<sup>8</sup>NA = Not available.

<sup>9</sup>Post Harvest use only.