

Fresh Fruit Roundup

- Decay Control
- MRLs

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Estes Citrus Inc



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Control Options

- Preharvest - No reliable replacement yet for Benlate or Topsin
 - However, copper, Aliette, and phosphorous acid products to reduce Brown rot
- Postharvest control measures
 - Good sanitation practices
 - Careful handling
 - Use of fungicides
 - Must be effective against latent organisms such as Diplodia and Anthracnose



Diplodia stem-end rot

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Postharvest Fungicides

- Thiabendazole (TBZ)
 - Controls stem-end rot and green mold
 - Some effectiveness against anthracnose
 - Does not control sour rot or black rot
- Imazalil
 - Especially effective against green mold
 - Diplodia and Phomopsis - generally slightly less effective than TBZ
 - Some activity against black rot
 - Ineffective against sour rot and brown rot

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Postharvest Fungicides

- Sodium o-phenylphenate (2 Phenylphenol O-phenylphenol [OPP])
 - Effective against green mold & sour rot
 - Little to no control of Diplodia or Phomopsis stem-end rot, or black rot
- Fludioxonil
 - Effective against green mold and Diplodia stem-end rot
 - Much less green mold sporulation control compared to imazalil
 - Combined with azoxystrobin (Graduate A+) = Good sporulation control
 - Compatible with chlorine

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Postharvest Fungicides

- Propiconazole
 - Reported good control of sour rot
 - Not tested under FL conditions
- Phosphites (e.g., potassium phosphite)
 - Effective against brown rot & stem-end rot
 - ‘Ruby Red’ grapefruit
 - Inoculated for Brown rot
 - Natural infections of Diplodia
- Essential oils??
- Chlorine dioxide??

Treatment	Brown Rot (%)	Diplodia SER (%)
Control	45.0 a	23.8 a
TBZ	40.6 b	6.9 b
Potassium Phosphite	8.1 c	4.4 b
Potassium Phosphite + TBZ	13.1 c	0.6 b
75 F	38.5 a	9.6 a
120 F	17.9 b	5.0 b

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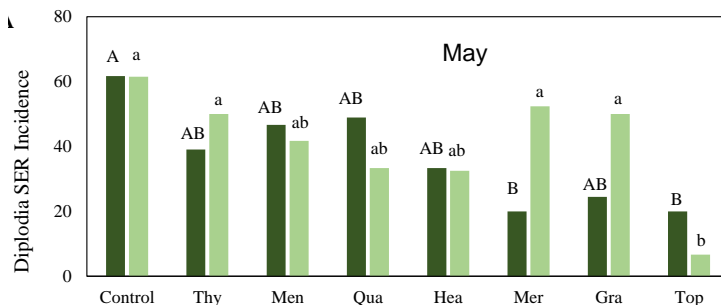
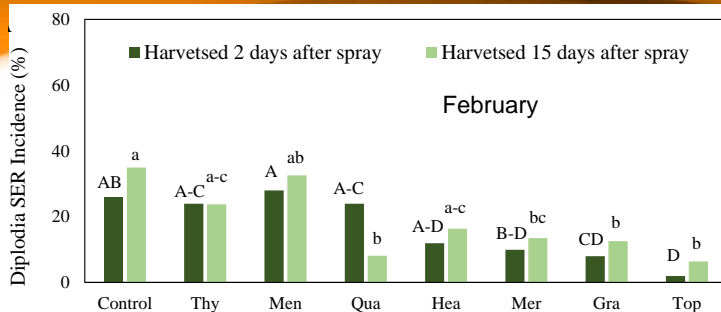
Fruit Decay - on Tree!

- *Diplodia (Lasiodiplodia theobromae)* causes fruit stem-end rot and was:
 - Consistently detected in the abscission zone and juice of HLB-infected fruit
 - Greater abundance of *Diplodia* was positively correlated with lower fruit detachment force
 - Fruit ethylene production is positively correlated with *Diplodia* infection levels
 - **Quadris Top** = multiple applications gave intermittent control under HLB conditions

Zhao et al., 2015, 2016



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Treatments:

Control = Water

Thy = Thymeguard (Thyme oil)

Men = Mentor EC (Propiconazole)

Qua = Quadris Top
(Azoxystrobin + Difenconazole)

Hea = Headline (Pyraclostrobin)

Mer = Mertect 340F (Thiabendazole)

Gra = Graduate A+
(Azoxystrobin + Fludioxonil)

Top = Topsin (thiophanate-methyl)

Dr. Jiaqi Yan

Dr. Jiuxu (John) Zhang

Cuifeng Hu

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Maximum Residue Limits (MRLs)

- Industry vigilance is required when MRLs for export markets are lower than U.S. MRLs
 - **Countries change MRLs periodically**
 - **Limited knowledge of how fast residues of various compounds decline under different production/postharvest conditions**

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Our goal is to generate and disseminate information so that perishable horticultural commodities are delivered to consumers fresh, safe, nutritious and in the form (e.g. ripe or fresh-cut) consumers desire.

Pesticide Residues & Limits
Look up the latest citrus MRLs for selected export markets and other resources for all commodities. [More...](#)

Packinghouse Day 2020
Packinghouse Day will be held on Thursday Aug. 20th [via Zoom this year](#). Click [here](#) to register and [here](#) for more details. [More...](#)

Mission
To support Florida's diverse Postharvest horticulture industries through research, extension and teaching.

Calendar

- Upcoming Events
- Previous Events
- Extension Calendar

IFAS Resources

- EDIS: Postharvest and Handling
- IFAS Extension
- IFAS Research
- College of Agriculture and Life Sciences (CALS)

Careers

- HortOpportunities: American Society for

<http://irrec.ifas.ufl.edu/postharvest/>
Or simply search for "UF Postharvest"

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Pesticide Residues & Maximum Limits

UF/IFAS Publications

- Maximum Residue Limits (MRLs) for Citrus For U.S. & Selected Export Markets Updated Aug. 18, 2020.
- UF Pesticide Information Office Chemically Speaking Newsletter

Pesticide MRL Web Resources

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**Maximum Residue Limits (MRLs) in part-per-million (ppm)
For Citrus - By Country**

Because MRLs change frequently, no guarantee is made concerning the accuracy of the below values. Verify these values with other knowledgeable sources within specific markets of interest.

Materials EXEMPT from US tolerances or only labeled for application to NONBEARING trees are NOT included

Proposed values are not in effect and may never be adopted, but are listed to notify of potential upcoming changes

"Expiring", "expired" or "non-renewed" pesticides relate to citrus registration in the respective country. Proposed MRL changes (likely elimination) may follow eventually

Abbreviations: G = grapefruit, O = sweet orange, T = tangerine (mandarin), L = lemon, P = pummelo

Chemical Name	Brand or Trade Names (Examples only, not inclusive)	U.S. Citrus	CODEX Citrus	Canada Citrus	EU (G & O only)	Japan (G & O only)	Korea (G & O only)	Taiwan (G & O only)
2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hivol	3	1	2	1	2 (1 proposed)	0.15	2
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA, Epi-mek, Reaper	0.02	0.02	0.02	0.04	0.01 (0.1 proposed)	0.02 (G), 0.05 (O)	0.01
Acequinocyl	Kanemite	0.35		0.35	0.2 (G); 0.4 (O)	2	1 (0.3 O proposed)	0.2
Acetamiprid	Assail	1	1	0.5	0.9	2	0.5	0.5
Acibenzolar-S-methyl	Actigard	0.02	0.015	0.1	0.01	0.02	0.2 (0.015 proposed)	
Afidopyropen		0.015		0.15	0.01	0.2	0.01	
Alpha-cypermethrin		0.35	0.5 (G, P), 0.3 (O, T, L)	0.1	2	2	2	2
Azoxystrobin	Abound, Graduate A+	15	15	15	15	10	10	10
Beta-cyfluthrin	Baythroid XL	0.2	0.3	0.1	0.02 (proposed label non-renewal)	2	2	0.3
Bifenthrin	Brigade, Capture, Telstar, Fanfare	0.05	0.05	0.1	0.05 (expiring 7/31/21)	2	0.5	0.5
Boscalid	A component of Pristine	2	2	3	2	10	2	5
Bromacil	Bromo, Hyvar	0.1		0.1	0.01	0.1	0.1	0.5
Buprofezin	Applaud, Centaur	4	1	0.1 (G, L, P), 4 (O, T)	0.01	3 (G), 2 (O)	0.5 (G), 2.5 (O)	0.5

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Abamectin	Agri-Mek, Clinch, Zephyr, ABBA,	0.02	0.02	0.02	0.04	0.01 (0.1	0.02 (G), 0.05 (O)	0.01

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2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hivol	3	1	2	1	2 (1 proposed)	0.15	2
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA	0.02	0.02	0.02	0.04	0.01 (0.1 proposed)	0.02 (G), 0.05 (O)	0.01

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2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hivol	3	1	2	1	2 (1 proposed)	0.15	2
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA, Epi-mek, Reaper	0.02	0.02	0.02	0.04	0.01 (0.1 proposed)	0.02 (G), 0.05 (O)	0.01
Acequinocyl	Kanemite	0.35		0.35	0.2 (G), 0.4 (O)	2	1 (0.3 O proposed)	0.2
Acetamiprid	Assail	1	1	0.5	0.9	2	0.5	0.5

Proposed values are not in effect and may never be adopted, but are listed to notify of potential upcoming changes.

Bifenthrin	Brigade, Capture, Telstar, Fanfare	0.05	0.05	0.1	0.05 (expiring 7/31/21)	2	0.5	0.5
Boscalid	A component of Pristine	2	2	3	2	10	2	5
Bromacil	Bromo, Hyvar	0.1		0.1	0.01	0.1	0.1	0.5
Buprofezin	Applaud, Centaur	4	1	0.1 (G, L, P), 4 (O, T)	0.01	3 (G), 2 (O)	0.5 (G), 2.5 (O)	0.5

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2,4-D (2,4-Dichlorophenoxyacetic acid)	Citrus Fix, Hivol	3	1	2	1	2 (1 proposed)	0.15	2
Abamectin	Agri-Mek, Clinch, Zephyr, ABBA	0.02	0.02	0.02	0.04	0.01 (0.1)	0.02 (G), 0.05 (O)	0.01


"Expiring", "expired" or "non-renewed" pesticides relate to citrus registration in the respective country. Proposed MRL changes (likely elimination) may follow eventually.

Azoxystrobin	Abound, Graduate A+	15	15	15	15	10	10	10
Beta-cyfluthrin	Baythroid XL	0.2	0.3	0.1	0.02 (proposed label non-renewal)	2	2	0.3
Bifenthrin	Brigade, Capture, Telstar, Fanfare	0.05	0.05	0.1	0.05 (expiring 7/31/21)	2	0.5	0.5
Boscalid	A component of Pristine	2	2	3	2	10	2	5
Bromacil	Bromo, Hyvar	0.1		0.1	0.01	0.1	0.1	0.5
Buprofezin	Applaud, Centaur	4	1	0.1 (G, L, P), 4 (O, T)	0.01	3 (G), 2 (O)	0.5 (G), 2.5 (O)	0.5

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Buprofezin	Applaud, Centaur	4	1	0.1 (G, L, P), 4 (O, T)	0.01	3 (G), 2 (O)	0.5 (G), 2.5 (O)	0.5
Chlorpyrifos	Lorsban, Nufos	1	1	1	1.5 (expired, 0.01 proposed)	1	1	1
Dimethoate	Dimethoate, Cygon	2	5	1.5	0.01 (expired)	2	2	2
Fenbuconazole	Enable	1	0.5 (G, O, T, P), 1 (L)	1	0.7 (G); 0.9 (O) (possibly expiring 4/30/21; MRL not anticipated to change through 2022)	1	0.5	0.01
Fenbutatin Oxide	Vendex	20	5	2	0.01	5	5	2
Fenpropathrin	Danitol	2	2	2	2 (0.01 proposed)	5	2	0.5
Flufenoxuron		0.3 (O)	0.4 (O)	1 (O)	0.3 (0.01 proposed)	2 (O)	1 (O)	0.01 (O)
Imazalil	DECCOZIL EC-289, Freshgard 700, Fungaflor 500EC	10	5 (G, T, P), 8 (O), 15 (L)	5	4	5	5	5
Methomyl		2	1	1	0.01 (expired)	10	1	1
Propargite	Comite, Omite	5 (G, L), 10 (O)	3	5	0.01 (G), 4 (O) (expired)	3	5	5
Propiconazole	Banner, Bumper, Tilt, Orbit, PropiMax	8	4 (G, P), 10 (O, T, L)	8	5 (G) 9 (O) (0.01 proposed)	8	8	4
Pyridaben	Nexter	0.9		0.9	0.3	1	0.01	2
	Tolerance for unlisted materials=>	None	None	0.1	0.01	0.01	0.01	None

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- Japan - MRLs -List of Agricultural Chemicals in Foods-- The Japan Food Chemical Research Foundation. See: Grapefruit; Orange. Postharvest fungicides must also be designated by Japan as Food Additives. Original website on Japan's "Positive List System for Agricultural Chemical Residues in Foods." See also MHLW Notification No. 498 (Exempted Substances)
- Canada - Health Canada
 - Health Canada's MRL Database

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