

A photograph of an orchard with many ripe orange fruits hanging from green leafy branches. The scene is brightly lit, suggesting a sunny day. The text is overlaid on the center of the image.

Organic Pesticide Discussion

Science Subcommittee

July 30, 2026

Grower Treatment Response Scenarios

ACP or CLas-positive ACP

- Voluntary treatment
- May use any product on the UC IPM list for ACP in commercial citrus

HLB

- Mandatory treatment
- Must use a product on the “spray and harvest” list of UC-recommended products
 - Selective and conventional only

Preharvest Treatment List

Product*	EPA No.	Active Ingredient	Rate per Acre	Rate of Active Ingredient
Actara	100-938	25% thiamethoxam	4.0 - 5.5 oz	0.063 - 0.086 lb ai thiamethoxam
Admire Pro **	264-827	4.6 lb ai/gal imidacloprid	7 fl oz	0.25 lb ai/acre
Baythroid XL	264-840	1 lb ai/gal beta- cyfluthrin	3.2 - 6.4 fl oz	0.025 - 0.050 lb ai beta cyfluthrin
Danitol 2.4 EC Spray	59639-35	2.4 lb ai/gal fenpropathrin	16 - 21.3 fl oz	0.3 - 0.4 lb ai fenpropathrin
Fujimite SC	71711-4	Fenpyroximate	2-4 pt	0.11-0.21 lb ai/acre
Fujimite 20SC	71711-57	Fenpyroximate	7.45 – 14.9 fl oz	0.105 – 0.210 lb ai/acre
Fujimite XLO	71711-40	Fenpyroximate	2-4 pt	0.11-0.21 lb ai/acre
Leverage 360	264-1104	1 lb ai/gal beta- cyfluthrin + 2 lb ai/gal imidacloprid	3.2 - 6.4 fl oz	0.025 - 0.50 lb ai beta-cyfluthrin + 0.05 - .01 lb ai imidacloprid
Mustang	279-3126	17.1% by weight zeta cypermethrin	4.3 fl oz	0.05 lb ai zeta cypermethrin
Mustang Maxx	279-3426	9.15% by weight zeta cypermethrin	4.0 fl oz	0.025 lb ai zeta cypermethrin
Sefina	7969-391	Alfidopyropen	14 fl oz	0.42 lb ai/gal
Sivanto 200 SL	264-1141	Flupyradifurone	10.5-14 fl oz	0.144-.183 lbs ai/acre
Sivanto HL	264-1198	Flupyradifurone	5.5-7 fl oz	0.144-.183 lbs ai/acre
Sivanto Prime	264-1141	Flupyradifurone	10.5-14 fl oz	0.144-.183 lbs ai/acre
Tombstone	34704-912	2 lb ai/gal cyfluthrin	2-3.2 fl oz	0.031-0.05 lb ai cyfluthrin
Tombstone Helios	34704-978	2 lb ai/gal cyfluthrin	2-3.2 fl oz	0.031-0.05 lb ai cyfluthrin

Note:

Growers may use a product on the preharvest treatment to satisfy quarantine requirements and move fruit across quarantine zones for packing (e.g. San Diego to Ventura or Ventura to Tulare)

*MRLs have not been fully established for all countries.

**Do not use if a soil imidacloprid has been applied to the orchard in the same season. Any 4F formulation of imidacloprid may be used at a rate of 8oz or any 4.6F formulation of imidacloprid may be used at a rate of 7oz.

Florida Field Study Results

Product	Active ingredient	Adults	Nymphs	Typical residual	Knockdown efficacy
Entrust SC	Spinosad	★★★★☆	★★★★☆	5–10 days	High
415 Spray Oil / PureSpray Green	Horticultural mineral oil	★★★★☆	★★★★☆	3–10 days	Moderate
PyGanic	Pyrethrins	★★★★☆	★★☆☆☆	<1–2 days	Moderate–Low
Azera	Pyrethrins + azadirachtin	★★★★☆	★★★★☆	3–7 days	Moderate
BotaniGard	<i>Beauveria bassiana</i>	★★☆☆☆	★★★★☆	5–10 days	Moderate–Low
Grandevo WDG	<i>Chromobacterium subtsugae</i> fermentation products	★★☆☆☆	★★☆☆☆	5–10 days	Moderate–Low
Azadirachtin (Aza-Direct, AzaGuard, Molt-X)	Azadirachtin	★★☆☆☆	★★★★☆	3–7 days	Moderate–Low
Neem oil	Neem oil	★★☆☆☆	★★☆☆☆	1–3 days	Low
Insecticidal soaps	Potassium salts of fatty acids	★★☆☆☆	★★☆☆☆	Contact only	Low
Diatomaceous earth	Silicon dioxide	★☆☆☆☆	★☆☆☆☆	Short	Very Low
Sulfur (Microthiol)	Sulfur	★☆☆☆☆	★★☆☆☆	Short	Low

Proposed Next Steps

- Field trials to determine efficacy and typical residual of select organic products.
- UC-recommendation to add, remove, or edit preharvest treatment list.
- Possible outcomes:
 - Organic product is added to preharvest treatment list (possibly with shorter preharvest treatment window).
 - Third list is created specific to HLB-response mandated treatments.
 - No change

The background of the slide features a close-up photograph of several oranges hanging from a tree branch, surrounded by green leaves. The entire image is covered with a semi-transparent orange overlay, creating a warm, autumnal aesthetic.

Discussion