

2026–2027 Florida Citrus Production Guide: Asian Citrus Psyllid¹

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Recommended Chemical Controls for Asian Citrus Psyllid

READ THE LABEL!

Some product labels specify rates per acre, while others specify rates per volume delivered (e.g., per 100 gal). Refer to the label for details on how product should be mixed for desired targets.

Rates for pesticides are given as the maximum amount required to treat mature citrus trees unless otherwise noted. When treating smaller trees with commercial application equipment including handguns, mix the per-acre rate for mature trees in 100 gal of water. Calibrate and arrange nozzles to deliver thorough distribution and treat as many acres as this volume of spray allows.

Table 1. Recommended chemical controls for the Asian citrus psyllid.

IRAC MOA ¹	Pesticide Trade Name	Rate/Acre ²	Comments	Other Pests Controlled
1B	Dimethoate			
	Dimethoate 4 E	16 fl oz	Highly toxic to bees; do not apply during bloom. Do not make more than 2 applications per crop season. Consult label for buffering instructions when water pH is greater than 7.	Aphids, scales except snow scale and black scale, flower thrips
1B	Phosmet			
	Imidan 70 W	1.0 lb	Highly toxic to bees; do not apply during bloom. Consult label for buffering instructions when water pH is greater than 7. Do not make more than 2 applications per season. EPA SLN No. 10163-169, FIFRA 2(ee).	Citrus root weevils
3A	Beta-cyfluthrin			
	Baythroid XL	3.2 fl oz	Restricted use pesticide, FIFRA 24(c). Maximum Baythroid XL allowed per crop season 6.4 fl oz/acre (0.05 a.i./acre).	Aphids, weevils
3A	Fenpropathrin			
	Danitol 2.4 EC	16 fl oz	Restricted use pesticide. Highly toxic to bees; do not apply during bloom.	Flower and orchid thrips, adult root weevils
3A	Zeta-cypermethrin			
	Mustang Insecticide	4.3 fl oz	Restricted use pesticide. Highly toxic to bees; do not apply during bloom. Do not make more than 4 applications (0.20 lb a.i.) per acre per season.	Citrus root weevils
4A	Clothianidin (soil drench)			
	Belay 50 WDG	3.2–6.4 oz	For use on nonbearing trees only. Do not apply within 1 year of fruit harvest. Do not exceed 12.8 oz/acre (0.4 lb a.i./acre) of Belay 50 WDG per acre per year. Do not apply this product to blooming, pollen-shedding, or nectar-producing parts of plants if bees may forage on the plants during this time period.	Aphids, citrus leafminer
	Belay Insecticide	3–12 fl oz	Refer to the Section 24c SLN label issued by the Florida Department of Agriculture and Consumer Services for application directions of this product to bearing citrus trees. For bearing trees, do not apply more than 12 fl oz per acre per application, and do not apply more than 24 fl oz per acre in a 12-month period.	Aphids, citrus leafminer
4A	Imidacloprid			
	Various products, 2F, 4F, and 4.6F		Limit of 0.5 lb a.i./acre per growing season regardless of application type (soil and/or foliar) and trade name of imidacloprid product used.	Aphids
	Foliar application	Half to full rate	Do not apply during bloom, within 10 days of bloom, or when bees are actively foraging.	
	Thiamethoxam (foliar application)			

IRAC MOA ¹	Pesticide Trade Name	Rate/Acre ²	Comments	Other Pests Controlled
	Actara	4.0–5.5 oz	Do not exceed a total of 11.0 oz/acre (0.172 lb a.i./acre) of Actara or 0.172 lb a.i. of thiamethoxam-containing products per acre per growing season. Do not apply during prebloom or during bloom when bees are actively foraging.	Aphids
	Thiamethoxam (soil drench)			
	Platinum 75 SG	1.83–3.67 oz	Do not exceed a total of 3.67 oz/acre (0.172 lb a.i./acre) of Platinum 75 SG or 0.172 lb a.i. of thiamethoxam-containing products per acre per growing season. Do not apply during prebloom or during bloom when bees are actively foraging.	Citrus leafminer, aphids, scales
4D	Flupyradifurone (foliar application)			
	Sivanto 200 SL	14 fl oz	Not recommended for soil applications against ACP. Do not tank mix with azole fungicides (FRAC group 3) during bloom period. In order to minimize exposure to pollinators, it is recommended that foliar insecticides are applied late in the afternoon, evening, or at night outside of daily peak foraging periods.	Aphids
5	Spinetoram			
	Delegate WG	4 oz + 2% v/v	Highly toxic to bees; do not apply during bloom. Do not apply more than 12 oz of product (0.188 lb a.i.) per acre per season. Do not make more than 3 applications per calendar year. Best when applied with horticultural mineral oil 97+% (FC 435-66, FC 455-88, or 470 oil).	Citrus leafminer
21A	Tolfenpyrad			
	Apta	14–27 fl oz	Do not apply by air. Do not apply more than 27 oz/acre per growing season. Do not make more than 2 applications per year. Allow at least 14 days between applications.	Citrus rust mite, spider mites (higher rates)
	Fenpyroximate			
	Portal	32–64 fl oz	Do not apply more than 4.0 pt per acre per growing season. Do not make more than 2 applications per growing season. Allow 14 days between applications.	Suppression of spider mites and rust mites (high rate)
23	Spirotetramat		Only controls psyllid nymphs, not adults. Limit of 0.32 lb a.i. per acre per 12 months. Minimum interval of 21 days between applications.	Citrus rust mites, some scale insects, mealybugs
	Movento 240	10 fl oz + 3% v/v	Do not make more than one application during primary citrus bloom period. Recommended to be applied in 2% horticultural mineral oil.	
	Movento MPC	16 fl oz + 3% v/v	Do not apply within 10 days prior to bloom, during bloom, or until petal fall is complete. Recommended to be applied in 2% horticultural mineral oil.	
28	Cyantraniliprole (Cyazypyr) (foliar application)			
	Exirel	13.5–20.5 fl oz	Do not apply a total of more than 0.4 lb a.i./acre (20.5 fl oz Exirel/acre) or other cyantraniliprole-containing products per year. See label for bloom restrictions. Recommended to include 2% horticultural mineral oil.	Citrus leafminer, orange dog
	Cyantraniliprole (soil application)			

IRAC MOA ¹	Pesticide Trade Name	Rate/Acre ²	Comments	Other Pests Controlled
	Verimark	15–30 fl oz	Use the lower rate for trees 3 ft or less in height.	Citrus leafminer, orange dog
4A + 6	Thiamethoxam + Abamectin			
	Agri-Flex	8.5 fl oz + 2% v/v	Do not exceed a total of 17 fl oz/acre or 3 applications per season of Agri-Flex or 0.172 lb a.i./acre of any thiamethoxam-containing products or 0.047 lb a.i./acre of abamectin-containing products per growing season. Must be mixed with a minimum of 2 percent oil to be effective. Do not apply during prebloom or during bloom when bees are actively foraging.	Aphids, citrus leafminer, citrus rust mites
4A + 28	Thiamethoxam + Chlorantraniliprole			
	Voliam Flexi	7 oz	Do not exceed 14 oz/acre/season of Voliam Flexi or 0.172 lb a.i. of thiamethoxam-containing products per growing season. Do not apply during prebloom or during bloom when bees are actively foraging.	Aphids, citrus leafminer
30	Zivalgo	1.6 fl oz	Apply this product diluted in a minimum volume of 30 gal per acre. Do not apply 3 days prior to, and until the end of the flowering period. No more than 7.2 fl oz per acre per year.	Asian citrus psyllids, citrus rust mites, spider mites, thrips
UN ³	Horticultural Mineral Oil			
	97+% (FC 435-66, FC 455-88, or 470 oil)	5 gal	Do not apply when temperatures exceed 94°F. 470 weight oil has not been evaluated for effects on fruit coloring or ripening. These oils are more likely to be phytotoxic than lighter oils.	Citrus leafminer, citrus rust mite, aphids, scales
¹ Mode of action class for citrus pesticides from the Insecticide Resistance Action Committee (IRAC) Mode of Action Classification v. 11.4 (2025).				
² Lower rates may be used on smaller trees. Do not use less than the minimum label rate.				
³ Mode of action unknown. No resistance potential exists for these products.				

Table 2. Recommended chemical controls for Asian citrus psyllid during bloom.

IRAC MOA ¹	Pesticide Trade Name	Rate/Acre ²	Comments	Other Pests Controlled
4 D	Flupyradifurone (foliar application)			
	Sivanto 200 SL	14 oz	Not recommended for soil applications against ACP. Do not tank mix with azole fungicides (FRAC group 3) during bloom period. In order to minimize exposure to pollinators, it is recommended that foliar insecticides are applied late in the afternoon, evening, or at night outside of daily peak foraging periods.	Aphids
15	Diflubenzuron			
	Micromite 80WGS	6.25 oz	Controls psyllid nymphs only. Do not apply more than 3 applications per season. See restrictions on label. Do not apply when temperatures exceed 94°F. Recommended to be applied in 2% horticultural mineral oil 97.	Citrus root weevils, citrus rust mites, citrus leafminer

IRAC MOA ¹	Pesticide Trade Name	Rate/Acre ²	Comments	Other Pests Controlled
21A	Fenpyroximate			
	Portal	32–64 fl oz	Do not apply more than 4.0 pt per acre per growing season. Do not make more than 2 applications per growing season. Allow 14 days between applications.	Suppression of spider mites and rust mites at higher rate
23	Spirotetramat			
	Movento	10 fl oz	Only controls psyllid nymphs, not adults. Limit of 0.32 lb a.i. per acre per season. Do not make more than one application during primary citrus bloom period. Recommended to be applied in 2% horticultural mineral oil 97.	Citrus rust mite, some scale insects, mealybugs
UN ³	Horticultural Mineral Oil			
	97+% (FC 435-66, FC 455-88, or 470 oil)	5 gal	Do not apply when temperatures exceed 94°F. 470 weight oil has not been evaluated for effects on fruit coloring or ripening and is more likely to be phytotoxic than lighter oils.	Citrus leafminer, citrus rust mite, aphids, scales
¹ Mode of action class for citrus pesticides from the Insecticide Resistance Action Committee (IRAC) Mode of Action Classification v. 11.4 (2025). ² Lower rates may be used on smaller trees. Do not use less than the minimum label rate. ³ Mode of action unknown. No resistance potential exists for these products.				

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Use pesticides safely. Read and follow directions on the manufacturer's label.

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