

2025–2026 Florida Citrus Production Guide: Citrus Scab¹

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Citrus scab, caused by the fungus *Elsinoë fawcettii*, affects grapefruit, Temples, Murcotts, tangelos, and some other tangerine hybrids. There is no need to control citrus scab on processing fruit, except possibly on Temples, where severe early infection reduces fruit size. Reduction or elimination of foliage wetting on susceptible varieties during the active growth period of the fruit will decrease disease severity.

Spores of this fungus are produced directly on scab pustules that occur on leaves and fruit. One to two hours of wetting are sufficient for spore production, and only an additional three to four hours are needed for infection. Spores are spread to healthy tissues by water splash.

If leaves from the previous season are heavily infected by citrus scab, three applications of fungicide are needed to control the disease: the first at about one-fourth expansion of the spring flush, a second at petal fall, and a third about three weeks later. Timing of the fungicide applications is critical for citrus scab management, but if there is little carryover of disease from the previous season, the first spray can be omitted. Ferbam, Enable 2F, Gem, Headline, or Quadris are good choices for the first application because they are all able to kill the fungus in old lesions and thus

reduce inoculum as well as protect foliage. Any of these products can be used in the petal fall spray, but do not use strobilurin (FRAC MOA 11) products (Gem, Headline, or Quadris) twice in a row. Copper fungicides, Gem, Headline, or Quadris are good choices for the third spray because they will protect fruit from early melanose as well as from scab. However, copper products are less effective for scab and should not be selected where scab pressure is high.

On Minneola tangelos, Murcotts, and certain other varieties, Alternaria brown spot and scab can occur in the same grove. In those cases, copper fungicides, Gem, Headline, or Quadris may be preferred because Ferbam and Enable 2F are less effective for Alternaria control. If canker is a concern, the only product that can manage both diseases is copper. With average-quality copper products, about 2 lb of metallic copper per acre is usually sufficient for scab control. The scab fungus may develop resistance to Gem, Headline, or Quadris if these products are not frequently rotated with alternate modes of action. Resistance has been documented in Florida for citrus scab. These products are all strobilurin fungicides, and only one should be selected for scab control each season.

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

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Fruit usually becomes resistant to scab by sometime in May, about two months after petal fall.

DO NOT APPLY GEM, HEADLINE, OR QUADRIIS IN NURSERIES. Application of these fungicides in nurseries can result in selection of resistant strains, which are then distributed on nursery stock to groves.

Recommended Chemical Controls

READ THE LABEL.

See Table 1.

Rates for pesticides are given as the maximum amount required to treat mature citrus trees unless otherwise noted. To treat smaller trees with commercial application equipment including handguns, mix the per-acre rate for mature trees in 125 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 citrus scab.

Pesticide	FRAC MOA ¹	Mature Trees Rate/Acre ²
copper fungicide	M 01	Use label rate.
Enable 2F	3	8 fl oz. Do not apply more than 3 times per year; no more than 24 fl oz (0.38 lb a.i.)/acre. Minimum retreatment interval is 21 days. Do not apply with polymer-based spray adjuvents.
Ferbam Granuflo	M 03	5–6 lb. Maximum 3 applications a year, and do not apply more than 7.9 lb/acre (6 lb a.i.) in a single application.
Gem 500 SC ³	11	1.9–3.8 fl oz. Do not apply more than 15.2 fl oz/acre/season for all uses. Do not apply within 7 days of harvest.
Headline SC ³	11	9–12 fl oz. Do not apply more than 54 fl oz (0.88 lb a.i.)/acre/season for all uses.
Quadris ³	11	12.0–15.5 fl oz. Do not apply more than 90 fl oz (1.5 lb a.i.)/acre/season for all uses. Minimum retreatment interval is 7 days.

¹ Mode of action class for citrus pesticides from the Fungicide Resistance Action Committee (FRAC) 2024. Refer to chapter 4, “[Pesticide Resistance and Resistance Management](#)”, for more details.

² Lower rates can be used on smaller trees. Do not use less than the minimum label rate.

³ Do not use more than 4 applications of strobilurin fungicides/season. Do not make more than 2 sequential applications of strobilurin (FRAC MOA 11) fungicides. Do not use in citrus propagation nurseries.