



COOPERATIVE EXTENSION SERVICE
UNIVERSITY OF KENTUCKY COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT

Plant Pathology Fact Sheet

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Simplified Backyard Grape Spray Guide

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Growth Stage	Target Organisms	Pesticide(s) ¹	Comments
Dormant	Anthrachnose	lime sulfur or sulfurix	
Bud swell	Grape flea beetle	Sevin	Apply only if flea beetles are observed eating holes in the buds.
New growth (2" to 4" long)	Black rot, Phomopsis, Powdery mildew, Downy mildew	mancozeb	Early season sprays are very important because this is a protectant spray program. May substitute captan for mancozeb throughout this spray schedule.
New growth (10" to 15" long, or 7 to 10 days after last spray)	Black rot, Phomopsis, Powdery mildew, Downy mildew	mancozeb + Immunox (myclobutanil)	Immunox is systemic and will not wash off.
Pre-bloom (just before blooms open)	Black rot, Phomopsis, Powdery mildew, Downy mildew	mancozeb	
Bloom	Black rot, Powdery mildew, Downy mildew	mancozeb + Immunox (myclobutanil)	Immunox is systemic and will not wash off.
Post-bloom	Black rot, Powdery mildew, Downy mildew	captan	Mancozeb cannot be used within 66 days of harvest; switch to captan approximately mid-June.
	Grape berry moth	Sevin	
First cover through fourth cover (every 10 to 14 days) ^{2,3}	Powdery mildew, Downy mildew	captan	
	Japanese beetle, Green June beetle	Sevin	Spray only if Japanese beetle or Green June beetle is present.

¹ Insecticides and fungicides can be mixed in the same tank and sprayed together.

² Check pesticide labels for the Pre-Harvest Interval (PHI).

³ Spray schedule frequency should be shortened in rainy weather and extended when conditions are dry.



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