

## GRAPE PESTS (EASTERN US)

- Grape Berry Moth (GBM) --- Up to 4 generations/year. Egg-laying begins in May and ends at 14 hr. day-length. Larvae damage fruit thus increasing rot pressures.
- Leafhoppers ----- 1-2 generations/year. Scout for eggs and nymphs on underside of leaves. Treat when majority of generation is at 3rd instar stage. If possible, time sucker and basal leaf removal with the end of the first adult generation to remove eggs prior to hatch.
- Spider Mites ----- Frequent scouting at early growth-stages is important. Early use of sulfur or oil as fungicides can also help keep mite populations low.
- Mealybugs ----- Vectors of leafroll virus and occasionally found in fruit. Scout by looking for ants and peeling back bark. Pheromone traps are available to aid in scouting.
- Grape Root Borer (GRB) ---- Primarily a pest in the Southeast. Trapping and well-timed cultivation under vines can diminish populations which can severely affect vine vigor. May take up to three seasons to control populations.
- Japanese Beetles ----- Wide range of hosts. One generation/year. Primarily foliage feeders, occasionally causing damage to fruit. Cultural controls include planting preferred hosts and trapping.

	Active Ingredient(s)	Grape Berry Moth	Leafhoppers	Spider Mites	Mealybug	Grape Root Borer	Japanese Beetle	Rate	Notes
Yellow Jacke	Sulfur			**				2-10#/ac	
Sil-Matrix	Potassium Silicate			-				0.25-1%	
Surround	Kaolin (Clay)		**					10-20#/100gal	Do not tank mix with oils. See label for compatibilities
Tritek	Mineral Oil		*	***	***			1-2%	
Golden Pest	Soybean Oil		*		***			1%	
Trilogy	Neem Oil		*	-	-			1-2%	
Des-X (Soap	Potassium Salts of Fatty Acids		*	***	-			2%	Only apply before bloom on table grapes
Pyganic 5.0	Pyrethrins (5%)	-	***	-	-	-	*	4.5-17oz/ac	Spray in low light. Tank mix with 1% oil
Neemix 4.5	Azadirachtin (4.5%)	***	***	-	-	-	*	4-16oz/ac	Tank mix with 1% oil
Azaguard	Azadirachtin (3%)	***	***	-	-	-	*	8-16oz/ac	Tank mix with 1% oil
Azera	Azadirachtin/Pyrethrins	-	***	-	-	-	*	16-56oz/ac	Spray in low light. Tank mix with 1% oil
Entrust	Spinosad	***				-		4-8oz/ac	Tank mix with oil (1%) for translaminar activity
Dipel	Bt kurstaki	-						0.5-1#/ac	For GBM apply twice/generation on 7 day interval
Deliver	Bt kurstaki	-						0.5-2#/ac	For GBM apply twice/generation on 7 day interval
Javelin	Bt kurstaki	-						0.5-1.25#/ac	For GBM apply twice/generation on 7 day interval
Beetlegone	Bacillus thuringiensis galleriae						-	1-17.5#/ac	
Grandevo	Chromobacterium subtsugae	-	-	-	-			1-3#/ac	Use with Nu Film P for best results
Venerate	Burkholderia	-	-	-	-			1-8qt/ac	
PFR-97	Isaria fumosorosea	-	-	-	-	-	-	1-2#/ac	Do not apply fungicides within 4 days of application

\*\*\*Highly effective \*\*Moderately effective \*Minimally effective -Labeled for pest/disease, no available efficacy data

[Efficacy ratings from Cornell Organic IPM Guide for Grapes](#)

See product labels for REI, PHI, application rates and restrictions. **Always read the label prior to applying any material.**