

Table 1. Relative effectiveness of fungicides for grape disease control in Michigan.

Fungicide	Black Rot	Downy Mildew	Powdery Mildew	Botrytis Rot	Phomopsis
Abound (azoxystrobin)	+++	+++	++	+	+++
Agri-Fos	?	++ / +++	+	?	++ / +++
Aliette (fosetyl-AL)	?	+++	?	?	?
Armicarb (potassium bicarbonate)	++	0	+ / ++	+	+
Basic Copper Sulfate (copper)	+	+++	++	+	+
Bayleton (triadimefon)	+++	0	+++	0	+
Captan (captan)	++	+++	0	+	++
Ferbam (ferbam)	++	+	0	0	0
Copper hydroxide (copper)	+	++	+	+	+
EBDCs (mancozeb)	+++	+++	+ / ++	0	++ / +++
Elevate	0	0	0	+++	0
Elite (tebuconazole)	+++	0	+++	0	++
Endura (boscalid)	?	?	++	+++	?
Flint (trifloxystrobin)	+++	++	+++	+	+++
JMS Stylet Oil (paraffinic oil)	0	0	++	+	0
Kaligreen (potassium bicarbonate)	++	?	+ / ++	?	?
Lime sulfur (calcium polysulfide)	0	0	+	0	++
Messenger (harpin)	?	?	++	+	+
Nova (myclobutanil)	+++	0	+++	0	++
Oxidate (hydrogen peroxide)	?	?	+	+	?
Phostrol	?	++ / +++	+	?	++ / +++
Pristine (pyraclostrobin + boscalid)	+++	+++	+++	++	+++
Procure (triflumizole)	++	0	+++	+	++
Prophyt (potassium phosphite)	+ / ++	++ / +++	+	?	++ / +++
Quintec (quinoxifen)	+ / ++	?	+++	?	?
Ridomil Gold MZ (mefenoxam + mancozeb)	++	+++*	0	0	++
Ridomil Gold/Copper (mefenoxam + copper)	+	+++	++	+	+
Rubigan (fenarimol)	++	0	+++	0	0
Rovral (iprodione)	+	0	0	++	?
Scala (pyrimethanil)	+	?	++	+++	+ / ++
Serenade (<i>Bacillus subtilis</i>)	?	+ / ++	++	+ / ++	+ / ++
Sulfur (elemental sulfur)	0	0	++	0	+
Sovran (kresoxim methyl)	+++	+++	++	+	+++
Topsin M (thiophanate methyl)	++	0	+++**	++	+
Vangard (cyprodinil)	?	?	+	+++	+
Ziram (ziram)	++	++	+	+	++

0 = not effective, + = slightly effective, ++ = moderately effective, +++ = highly effective, ? = effectiveness not known.
Ratings are based on published information and modified based on observations in Michigan vineyards.

*Ridomil also has eradicative properties.

**If benzimidazole-resistant strains are present, efficacy will be reduced.