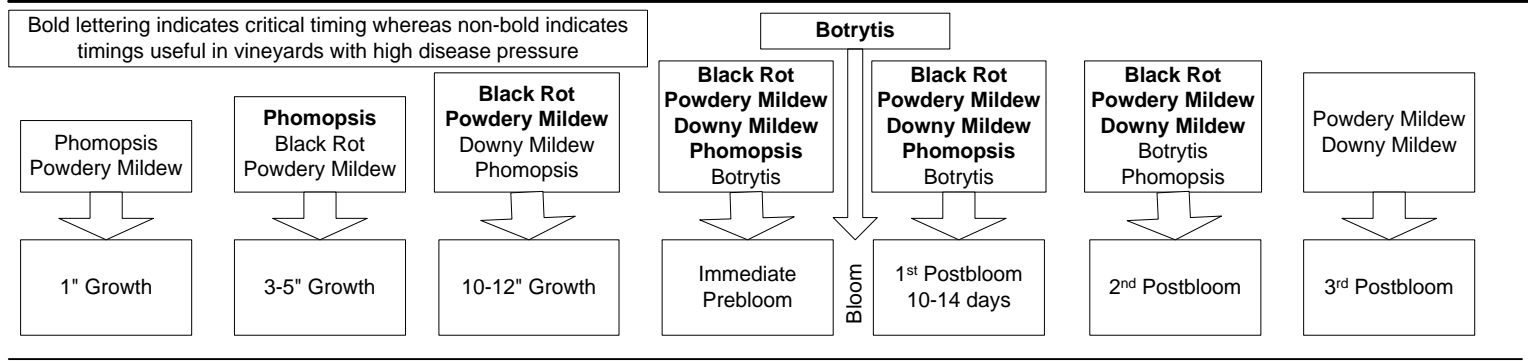


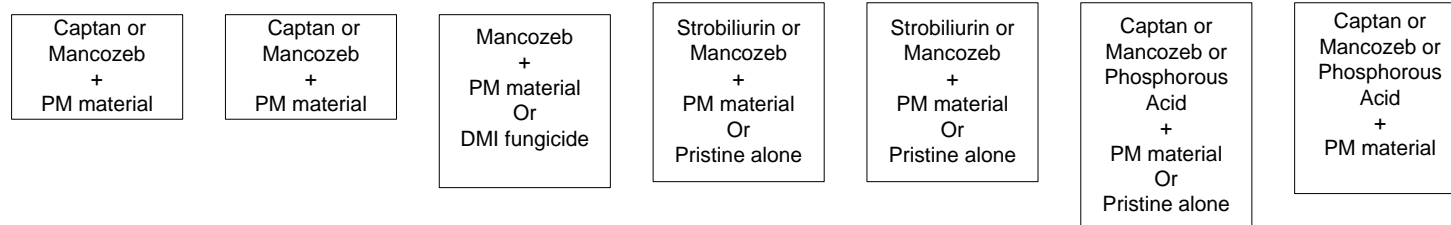
Grape Disease Management

2013

Target and growth stage



Suggested materials



Notes

These applications are important only when warm wet conditions prevail and if the problem was severe in the previous season. A 7-10 day spray schedule should be followed until the target disease is risk has ended.

PM Materials
Powdery Mildew. There are a number of powdery mildew fungicides available. If sulfur is used remember that applications may need to be made more frequently.

Botrytis should be controlled during bloom in wet years. Fungicides include Elevate, Pristine, Scala, Strobilurin Fungicides include: Abound, Flint, Pristine. These should not be used in more than two successive applications.

The most critical timing for controlling fruit infections is from prebloom through the 2nd postbloom. Ensure that you emphasize uniform coverage and optimum rates for these applications. Do not skip or delay these applications

Continue the spray program emphasizing the diseases and conditions present

USE RESISTANCE MANAGEMENT – ALTERNATE WITH LOW RISK FUNGICIDES

LOW RISK FUNGICIDES

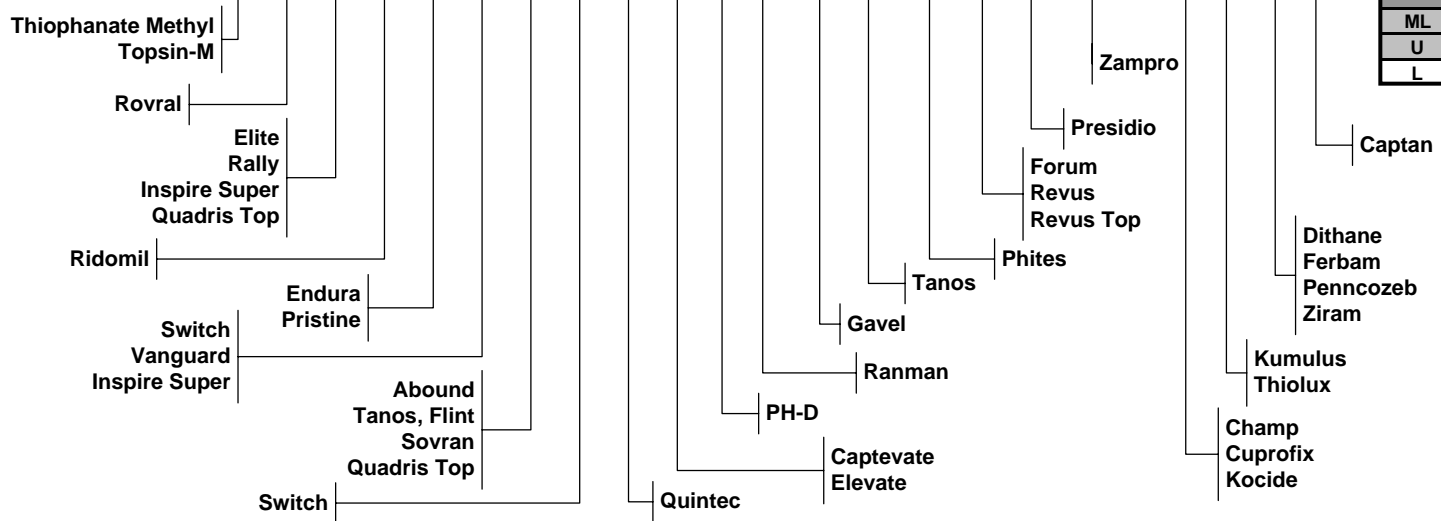
Mode of Action	Benzimidazoles	Dicarboximides	DMI-fungicides	PhenylAmides	SDH Inhibitors	Anilino Pyrimidines	Qo I/Strobilurin	PhenylPyroles	Quinolines	Hydroxylanilides	Polyoxins	Qil	Benzimidides	Cyanoacetamide-oxime	Phosphonates	Carboxylic Acid Amides	Pyridinylmethyl-Benzamide	Quinone X Inhibitor	Copper	Sulfur	Dithiocarbamates	Phthalimides
	1	2	3	4	7	9	11	12	13	17	19	21	22	27	33	40	43	45	M1	M2	M3	M4
FRAC CODE	1	2	3	4	7	9	11	12	13	17	19	21	22	27	33	40	43	45	M1	M2	M3	M4
Phomopsis	+						S														+	+
Black Rot			+				+														+	M
Downy Mildew				+			+					+	+	+	+	+	+	+	+		+	+
Botrytis		+			+	+	M	+		+	+											
Powdery Mildew			+		+		+		+		+								+	+	M	
RISK	H	M	M	H	M	M	H	ML	M	ML	M	M	ML	ML	L	ML	U	H	L	L	L	L

Efficacy

	Most members of this class are not effective
M	Moderate activity
S	Some members of this class are effective
+	Most members of this class show activity

Risk for resistance

H	High risk for resistance
M	Moderate risk for resistance
ML	Low-moderate risk for resistance
U	As yet undetermined risk for resistance
L	Low risk for resistance



Fungicide Mixtures

Trade Name	Manufacturer/EPA Reg.	Common Name	FRAC Group
LUNA EXPERIENCE	Bayer CropScience 264-1091	Fluopyram Tebuconazole	Group 7 Group 3
INSPIRE SUPER	Syngenta Crop Protection, LLC 100-1317	Cyprodinil Difenoconazole	Group 9 Group 3
QUADRIS TOP	Syngenta Crop Protection, LLC 100-1313	Azoxystrobin Difenoconazole	Group 11 Group 3
PRISTINE	BASF Ag Products 7969-199	Boscalid Pyraclostrobin	Group 7 Group 11
TANOS	DuPont Crop Protection 352-604	Cymoxanil Famoxadone	Group 27 Group 11
SWITCH 62.5WG	Syngenta Crop Protection, LLC 100-953	Cyprodinil Fludioxonil	Group 9 Group 12
REVUS TOP	Syngenta Crop Protection, LLC 100-1278	Difenoconazole Mandipropamid	Group 3 Group 40
SANCTION	Loveland Products, Inc. 34704-1040	Potassium phosphate Sulfur	Group 33 Group M2