

Crops(s) **Grape**

Disease(s) **Grey mould (*Botrytis bunch rot*)**

Resistance management strategy for:

Group 2	Dicarboximides;
Group 7	Succinate dehydrogenase inhibitors (SDHI);
Group 7+3	SDHI + Demethylation inhibitors (DMI);
Group 7+12	SDHI + phenylpyrroles (PP);
Group 9	Anilinopyrimidines (AP);
Group 9+12	AP + PP;
Group 11	Quinone outside inhibitors (QoI);
Group 11+3	QoI + DMI;
Group 17	Keto reductase inhibitors (KRI); and
Group 19	Chitin synthase inhibitor.

Guidelines:

1. Always use an integrated disease management approach to grey mould management in vines. Manipulate the bunch zone microclimate to reduce humidity and enable rapid drying of wet bunches. Always aim to reduce spore load, flower and fruit infection and limit regrowth of latent infections and disease spread by timely fungicide application in an IDM approach. Use fungicides registered to control *Botrytis* at label rates from as many different mode of action groups as possible when needed.
2. Apply all these fungicides as protectants before the first sign of disease.
3. Consecutive applications include from the end of one season to the start of the next.
4. Varying the number of fungicides applied targeting *Botrytis* changes the relative resistance risk to any one fungicide group. When three or fewer sprays are applied, it is recommended that three different groups of fungicides are used (see table below). When four sprays are applied, try to use 3 or 4 different groups of fungicide.

Please note:

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		Maximum recommended number of sprays which can contain Group:						
Total number <i>Botrytis</i> targeting sprays		2	7 (Incl. 7+3, 7+12)	9 (Incl. 9+12)	11 (Incl. 11+3)	12 (Incl. 7+12, 9+12)	17	19
	1	1	1	1	1	1	1	1
	2	1	1	1	1	2	1	1
	3	1	1	1	1	2	1	1
	4	2	1	2	2	2	2	2
	5+	2	2	2	2	2	2	3

- If a **Group 11** or **7** fungicide is used solo, it should only be used in strict alternation with fungicides from a different mode of action group.
- Do not** apply more than two consecutive sprays from the same fungicide group, for any **Group 2, 7, 9** (including combinations with **Group 12, 11+3, 17** or **19** fungicide, including from the end of one season to the start of the following season.
- If two consecutive applications of **Group 11+3** fungicides are used, then they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before a **Group 11** (including combinations with **Group 3**) fungicide is used again, either in the current or following season.
- If resistance to a fungicide group has been detected within a region, only use that fungicide group in mixtures or in strict alternation with fungicides from a different cross resistance group. A fungicide group that has been applied as the final application of the season should not be the first fungicide in the following season.
- No specific resistance management strategy has been developed for low-risk fungicides, including those in **Group M** and **BM**. These products should be included in a management strategy as per label recommendations.

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