



Crops(s) Wheat

Disease(s) Powdery mildew

Resistance management strategy for:

Group 3	Demethylation inhibitors (DMI);
Group 5*	Amines ("morpholines")
Group 7	Succinate dehydrogenase inhibitors (SDHI);
Group 7+3	SDHI + DMI;
Group 11+3	Quinone outside inhibitors (QoI) + DMI;
Group 11+4	QoI + phenylamides (PA);
Group 11+7+3	QoI + SDHI + DMI;
Group 13*	Azanaphthalene;
Group 21	Qil - fungicides (quinone inside inhibitors)
Group 50	Actin disruption aryl-phenyl-ketones; and
Group U6	Unknown phenyl-acetamide

* Currently only available under temporary permit. Always check that permits are valid prior to use

Guidelines:

- 1. Fungicides should be used as protectant treatments prior to symptoms of disease when conditions are conducive to disease development.
- 2. In high-risk disease environments integrated management approaches should be used to reduce fungicide resistance risk, which may include:
 - a. Removal or burning of stubble;
 - b. Crop rotation (avoid wheat on wheat);
 - c. Control of green bridge volunteers; and
 - d. Use of tolerant and/or resistant varieties.
 - e. Strategic use (timing and application technique) of fungicides
- 3. **Do not** apply more than two applications per growing season of **Group 5, 7, 11, 13, 21, 50** and **U6** containing products. This includes in-furrow or seed treatments that have activity on powdery mildew. Combinations of in-furrow and seed treatment are counted as one application.

Please note:

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- 4. **Do not** apply consecutive applications of **Group 11** containing products. This includes in-furrow i.e. if a **Group 11+4** fungicide has been used in-furrow at planting, the first foliar fungicide spray must not contain a **Group 11** fungicide.
- 5. If a **Group 7** seed treatment has been used that has foliar activity (as determined by label claims), the first foliar fungicide applied should not contain a **Group 7** fungicide.
- 6. **Do not** apply more than one application of a **Group 7** seed treatment that has foliar activity in any two consecutive growing seasons.
- 7. If a **Group 7** or **11** fungicide is being applied as a foliar spray, it must be co-formulated or mixed with a registered product with a different mode of action, with no known resistance in the local area.
- 8. **Do not** apply more than three applications containing **Group 3** fungicides per growing season. This total of three applications includes DMIs applied as **Group 11+3** or **Group 11+7+3** coformulations and in-furrow or seed treatments that have activity on foliar disease. Combinations of in-furrow and seed treatment are counted as one application.
- 9. **Do not** apply **Group 5, 13, 21, 50** and **U6** fungicides onto existing infections of powdery mildew. Always use preventatively. If applying consecutive applications, use an effective mixing partner.
- 10. Reduced rates, including multiple applications must not be used. Always use label rates.

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