



Fungicide Resistance Management Strategies
Developed by the CropLife Australia Fungicide Resistance Management Review Group
Valid as at 10 June 2016

Crop(s): Barley

Pest(s): Powdery Mildew, Scald, Net blotch

Resistance Management Strategy for:

Group 11 + 4 (Quinone outside Inhibitor + PAA)

Group 11 + 3 (Quinone outside Inhibitor + DMI)

Treat as a **Group 11** fungicide for resistance management purposes.

1. Apply only as a protectant treatment – where no more than 5% leaf area infection evident anywhere in the canopy.
2. **DO NOT** apply more than two applications per growing season. 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.
3. **DO NOT** apply consecutive sprays within a spray program.
4. **DO NOT** rotate with alternative DMI fungicides which are known to have compromised resistance status.
5. In high risk disease environments integrated management approaches should be used to reduce fungicide resistance risk including the removal of stubble, control of green bridge volunteers and the use of tolerant and resistant varieties.

Resistance Management Strategy for:

Group 3 (DMI)

1. Apply only as a protectant treatment – where no more than 5% leaf area infection evident anywhere in the canopy.
2. Rotate with products which incorporate alternative modes of action partners with activity on powdery mildew where possible
3. **DO NOT** apply more than three applications per growing season. The total of three applications includes DMI's applied as **Group 11 + 3** co-formulations and in-furrow or seed treatments that have activity on foliar diseases. Combinations of in-furrow and seed treatment are counted as one application.
4. Minimise use of DMI fungicides which are known to have compromised resistance status.
5. In high risk disease environments integrated management approaches should be used to reduce fungicide resistance risk including the removal of stubble, control of green bridge volunteers and

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Advice given in this strategy is **valid as at 10 June 2016**. All previous versions of this strategy are now invalid.

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the use of tolerant and resistant varieties. This is particularly important for managing barley powdery mildew which has shifted in tolerance to DMI fungicides in some regions.

Resistance Management Strategy for:

Group 7 (SDHI)

1. Apply only as a protectant treatment in a mixture with an effective registered fungicide from an alternative fungicide group.
2. Rotate with products which incorporate alternative modes of action partners with activity on powdery mildew where possible
3. **DO NOT** apply more than two applications per growing season. This includes in-furrow or seed treatments that have activity on foliar diseases, and foliar applications. Combinations of in-furrow and seed treatment are counted as one application.
4. If a **Group 7** seed treatment has been used with foliar activity (as determined by label claims), the first foliar fungicide applied should not contain a **Group 7** fungicide.

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