

Crop(s)	Cucurbit
Disease(s)	Powdery mildew

Resistance management strategy for:

Group 3	Demethylation inhibitors (DMI);
Group 7	Succinate dehydrogenase inhibitors (SDHI);
Group 7 + 3	SDHI + DMI;
Group 8	Hydroxy-(2-amino-) pyrimidines;
Group 11	Quinone outside inhibitors (QoI);
Group 11 + 7	QoI + SDHI;
Group 13	Aza-naphthalenes;
Group 21	Quinone inside inhibitors (QiI);
Group U6	Phenyl-acetamide; and
Group 50 (U8)	Actin disruptors (aryl-phenyl-ketones).

Guidelines

1. Start disease control early. **Do not** wait for powdery mildew to appear before spraying but start as soon as possible after crop emergence.
2. Use protectant sprays in early crop growth. Apply protectant sprays up to the fruit set stage of the crop if the disease normally occurs during this period. If this schedule is interrupted (e.g. by rain) use a tank mix of protectant plus systemic before recommencing the protectant program.
3. After fruit set, use systemic fungicides in one or more of the following ways:
 - a. Tank mix systemic fungicides with a protectant fungicide **and** use fungicides from at least two different mode of action groups per crop.
 - b. Alternate systemic fungicides with a protectant fungicide **and** use fungicides from at least two different mode of action groups per crop.
 - c. Alternate systemic fungicides from at least three different activity groups per crop.
4. Apply **Group 7, 11** and **21** fungicides preventatively (as protectants).
5. Use a maximum of one **Group 11** or **Group 21** containing spray out of every three fungicide applications.
6. **Do not** use consecutive applications of **Group 11** or **Group U6** fungicides.
7. **Do not** apply more than two **Group 11** (including **11+7**) or **Group U6** products per crop.
8. **Do not** apply more than three **Group 21** containing products per crop, with up to two consecutive applications. **Do not** apply more than five **Group 21** products per calendar year in case of multiple cropping cycles. Continue alternation of fungicides between successive crops.

Please note:

This strategy is a guide only and does not endorse particular products, groups of products or cultural methods in terms of their performance. Always follow the product label for specific use instructions. While all effort has been made with the information supplied in this document, no responsibility, actual or implied, is taken for the day to day accuracy of product or active constituent specific information. Readers should check with the Australian Pesticides and Veterinary Medicines Authority's product database for contemporary information on products and actives. The database can be sourced through www.apvma.gov.au. The information given in this strategy is provided in good faith and without any liability for loss or damage suffered as a result of its application and use. Advice given in this strategy is valid as at 26 June 2025. All previous versions of this strategy are now invalid.

9. SDHI guideline – use SDHI fungicides as per label instructions and as protectants only.

Total number of spray applications per crop	1	2	3	4	5	6	7	8	9	10	11	12	>12
Max. recommended alone SDHI fungicide sprays (apply in strict alternation)	1	1	1	1	2	2	2	3	3	3	3	4	*
Max. recommended SDHI fungicide sprays in mixture (apply a max. of 2 consecutive applications)	1	1	1	2	2	3	3	3	3	3	4	4	*

* When more than 12 fungicide applications are made, observe the following guidelines:

- When using an SDHI fungicide alone, the number of applications should be no more than 1/3 (one in every three sprays) of the total number of fungicide applications per season
- If used alone, apply SDHI fungicides in strict alternation with fungicides from a different cross-resistance group.
- For programs in which tank mixes or pre-mixes of SDHI fungicides are utilized, the number of SDHI-containing applications should be no more than 1/2 (50%) of the total number of fungicide application per season.
- If used in mixture, apply SDHI fungicides in a maximum of 2 consecutive applications.
- In programs where SDHIs are made with both alone and in mixtures, the number of SDHI containing applications should be no more than ½ (50%) of the total no. of fungicides applied per season.

Please note:

This strategy is a guide only and does not endorse particular products, groups of products or cultural methods in terms of their performance. Always follow the product label for specific use instructions. While all effort has been made with the information supplied in this document, no responsibility, actual or implied, is taken for the day to day accuracy of product or active constituent specific information. Readers should check with the Australian Pesticides and Veterinary Medicines Authority's product database for contemporary information on products and actives. The database can be sourced through www.apvma.gov.au. The information given in this strategy is provided in good faith and without any liability for loss or damage suffered as a result of its application and use. Advice given in this strategy is valid as at 26 June 2025. All previous versions of this strategy are now invalid.