

Crop(s) **Onion**
Disease(s) **Downy mildew**

Resistance management strategy for:

Group 4	Phenylamides (PA);
Group 28 + 43	Carbamates + benzamides;
Group 40	Carboxylic acid amides (CAA);
Group 45 + 40	Quinone outside inhibitors, stigmatellin binding type (QoSI) + CAA;
Group 49	Oxysterol binding protein inhibitors (OSBPI); and
Group 49 + 11	OSBPI + quinone outside inhibitors (QoI).

Guidelines

1. Start disease control early and maintain a regular program using a fungicide from groups other than **Group 4, 40, 45+40** or **49** (or **49+11**).
2. When conditions favour disease development, **do not** wait for disease to appear, but apply two consecutive sprays of a **Group 4, 28+43, 40, 49** (or **49+11**) product at the interval recommended on the label. Then resume the program of sprays using products from a different mode of action group to the **Group 4, 28+43, 40, 49** or **49+11** products just applied.
3. **Do not** apply more than four sprays of a **Group 4** or **40** product per season.
4. **Do not** apply more than three sprays of a **Group 28+43** or **49** (or **49+11**) product per crop. **Group 49** (or **49+11**) containing sprays should not consist of more than one in every three of the total number of fungicide sprays per crop. If there are multiple crops per year, **do not** make more than (6) six total applications of a **Group 49** (or **49+11**) product per year on the same area.
5. **Do not** apply more than two sprays of a **Group 45+40** product per crop.
6. Apply **Group 4, 40, 45+40** and **49** (including **49+11**) fungicides preventatively.
7. Apply **Group 4** and **49** (or **49+11**) fungicides only in mixtures with a registered fungicide from a different mode of action group, with no known resistance.
8. Continue alternation of fungicides between successive crops.

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Please note:

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	Group			
	4	28 + 43	40, 45 + 40	49, 49 + 11
Maximum number of consecutive applications	2	2	2	2
Maximum number of solo sprays	None			None of 49
Maximum number of sprays per crop season *	4	3 [^] (or 1 in 3)	2 or 4	3 [^] (or 1 in 3) 6 per year

* Maximum application number on product label may differ. Ensure you follow the label recommendations.

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