
Crops(s)	Various
Insect(s)	Cotton/Melon aphid (<i>Aphis gossypii</i>), Green peach aphid (<i>Myzus persicae</i>)

Guidelines:

1. **Rotate** between registered insecticides that have different modes of action (e.g., **Groups 1, 4, 9, 12A** (cotton crop only), **23, 28** and **29**).
2. **Do not** apply more than two consecutive applications of insecticides that have the same mode of action within and between seasons or exceed the recommended maximum number of applications in a crop.
3. With post-spray monitoring, **do not** re-treat a spray failure with a product from the same mode of action group.
4. **Do not** follow a seed/seedling/soil treatment with a foliar application from the same Group.

Please note:

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5. The Modes of Action (Groups) and registered insecticides for control of cotton/melon aphid and/or green peach aphid are listed below:

Group*	Chemical sub-group	Active ingredient
1A	Carbamates	pirimicarb
1B	Organophosphates	methamidophos
3A	Pyrethroids Pyrethrins	tau-fluvalinate
4A	Neonicotinoid	imidacloprid
4C	Sulfoximines	sulfoxaflor
8A	Alkyl halides	ethyl formate
9B	Pyridine azomethine derivatives	pymetrozine
9D	Pyropenes	afidopyropen
12A	Diafenthiuron	diafenthiuron
23	Tetronic and Tetramic acid derivatives	spirotetramat
28	Diamides	cyantraniliprole
29	Flonicamid	flonicamid
36	Pyridazine	dimpropyridaz
UN	Sulphur	sulphur
UNF		<i>Beauveria bassiana</i>
UNM		Paraffinnic oil

*Refer: CropLife Australia Expert Committee on Insecticide Resistance Mode of Action Classification for Insecticides

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Notes:

1. There is known cross-resistance between **Groups 1A** and **1B**. Rotate between **Group 1** and **Group 4, 9B, 9D, 12A, 23, 28** and **29**.
2. Consecutive applications of a **Group 4A** and **Group 4C** product may be made only if no other effective option is available – either because:
 - a) no other group is registered in the crop; or
 - b) the target pest is resistant to the other Groups.
3. Seek advice from the manufacturers and/or government advisory services to determine local resistance levels for particular mode of action Groups.
4. **Do not** exceed the maximum number of applications permitted on the insecticide label.
5. When using insecticides/miticides to control other pests, consider the chemical group in relation to contributing to resistance development of Cotton/Melon Aphid and Green Peach Aphid.
6. When using insecticides/aphicides to control other pests consider the effect on beneficial insects and the potential to flare aphid populations.
7. For more information about insecticide resistance in the green peach aphid refer to <http://cesaraustralia.com/latest-news/all/insecticide-resistance-in-the-green-peach-aphid>.
8. For more detail on resistance management of aphids in cotton refer to the current [Cotton Pest Management Guide](#) or for more detail on resistance management for Green Peach Aphid in grain refer to <https://ipmguidelinesforgrains.com.au/ipm-information/resistance-management-strategies/> or <https://grdc.com.au/resources-and-publications/all-publications/factsheets/2015/07/grdc-fs-greenpeachaphid> or <https://thebeatsheet.com.au/key-pests/aphids>

Notes regarding the application of insecticides:

1. To ensure the most effective control of the pest:
 - a) Product labels should at all times be carefully read and adhered to;
 - b) Full recommended rates of registered insecticides should always be used; and
 - c) Ensure good coverage of the target area to maximise contact.

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