CropLife AUSTRALIA

Insecticide Resistance Management Strategies
Developed by the CropLife Australia Insecticide Resistance Management Review Group

Valid as at 10 June 2017

Crop(s) : Various

Insect(s) : Cotton/Melon Aphid and Green Peach Aphid

Guidelines:

1. **Rotate** between registered insecticides that have different modes of action (eg. **Group 1**, **Group 4, Group 9, Group 12A** (cotton crop only), **Group 23**,**Group 28** and **Group 29**.

2. **Do not** apply 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. **Do not** follow a seed/seedling/soil treatment with a foliar application from the same Group when aphids are present.

4. 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	Example chemical
1A	Carbamates	pirimicarb
1B	Organophosphates	methamidophos
4A	Neonicotinoid	imidacloprid
4C	Sulfoxaflor	sulfoxaflor
9B	Pymetrozine	pymetrozine
12A	Diafenthiuron	diafenthiuron
23	Spirotetramat	spirotetramat
28	Diamide	cyantraniliprole
29	Flonicamid	flonicamid

***Refer:** *CropLife Australia Insecticide Resistance Management Review Group Mode of Action Classification for Insecticides*

Notes:

1. There is known cross-resistance between **Groups 1A** and **1B.**Rotate between **Group 1** and **Group 4, 9B, 12A, 23,28, and 29.**

2. Consecutive applications of a **Group 4A** and **Group 4C** product may be made only if

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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 detail on resistance management of aphids in cotton refer the current cotton ***Insecticide Resistance Management Strategies*** or for more detail on resistance management for Green Peach Aphid in grain refer to ***http://ipmguidelinesforgrains.com.au/ipm-information/resistance-management-strategies/***

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