

<b>Crop(s)</b>	<b>Canola, forage brassica</b>
<b>Insect(s)</b>	<b>Diamondback moth, Cabbage moth (<i>Plutella xylostella</i>)</b>

## Guidelines

For information refer to the IPM guidelines: <https://ipmguidelinesforgrains.com.au/ipm-information/resistance-management-strategies/>.

## Notes regarding the application of insecticide

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.

To help prevent the development of resistance to any one specific active ingredient (see table below), observe the following instructions:

1. Apply a specific active ingredient using a 'window' approach to avoid exposure of consecutive insect pest generations to the same mode of action. Multiple successive applications of a specific active ingredient are acceptable if they are used to treat a single pest generation.
2. Following a 'window' of a specific mode of action product, rotate to a 'window' of applications of effective insecticides with a different mode of action.
3. The total exposure period of any one mode of action 'active window' applied throughout the crop cycle (from seedling to harvest) should not exceed 50% of the crop cycle.
4. Incorporate IPM techniques into the overall pest management program.
5. Consider the impact on beneficial insects. Consult the Cesar Australia Beneficials Chemical Toxicity table: <https://cesaraustralia.com/resources/beneficials-toxicity-table/>.
6. Monitor insect populations for loss of field efficacy.

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### Please note:

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MoA Group*	Chemical subgroup	Active ingredient	No. applications permitted per crop per season	Crops
1A	Carbamates	methomyl (eg. Lannate® L), thiodicarb (eg. Larvin®)	not specified	Canola, rapeseed, brassicas
3A	Pyrethroids	synthetic pyrethroids (various – eg. Dominex® Duo, #Karate® Zeon, *Sumi-alpha® Flex, #Trojan®)	not specified	Canola, #forage brassicas, *fodder rape, *chou moellier
5	Spinosyns	spinetoram (Success® Neo)	2	Canola, forage brassicas
6	Avermectins	emamectin benzoate (eg. Affirm®)	2	Canola
11A	<i>Bacillus thuringiensis</i>	<i>Bacillus thuringiensis</i> (eg. Dipel®)	not specified	Oilseeds
28	Diamides	cyantraniliprole (Exirel®)	1	Canola
			2	Forage brassicas
31	Nucleopolyhedrovirus	NPV of H.zea or H.armigera – (eg. Gemstar®, Vivus® Max)	no limit but avoid season long use of low rates	Oilseeds
UN	Clitoria ternatea extract	clitoria ternatea extract (Sero-X)	not specified	Brassicas
UNM	Paraffinic spray oils	paraffinic oil (eg. Parachute®)	not specified when used in conjunction with Bt sprays	Canola

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