



Insecticides registered ® or under permit ^P in soybeans as at February 2019

Check latest status on APVMA/PUBCRIS websites

Pest	Pesticide/ Hardness ✖	Trade names	Rate/ha*	Registration status	WHP# (days)	Comments
Helicoverpa	Helicoverpa NPV	Gemstar LC ViVUSMax	0.375 L 0.150 L	® ® - Pivot	NA	Target larvae < 7-10 mm Preferred vegetative options
	Bt	Dipel, Farmoz Btk	1-4 L	®	NA	Target hatchling helicoverpa larvae for best results
	chloran- traniliprole	Altacor	70g/ha	®	14	Highly selective and long residual. Needs good coverage.
	indoxacarb	Steward	0.4 L	®	21	Only 1 spray per crop*
	Spinetoram group 5	Success Neo	0.2-0.3 L	®	14	Target small larvae < 5 mm Only 2 sprays per crop per season.
	thiodicarb	Larvin	0.5 L - 0.75 L	®	21	Target larvae < 7 mm for best results
	methomyl	Marlin, Nudrin	0.5-2 L	®	7	Target larvae < 7 mm for best results. Highly toxic to humans
	emamectin	Affirm	0.15 - 0.3 L	®	21	Target larvae < 5 mm Add a non-ionic surfactant. Do not apply to crops under visible stress
	deltamethrin	Decis Options Ballistic	0.5 L	®	7	Target larvae < 5 mm for best results. Not an effective option
	alpha- cypermethrin	Dominex 100	0.3-0.4 L	®	7	Target larvae < 5 mm for best results. Not an effective option
Loopers including soybean loopers	Bt	Dipel, Farmoz Btk	1-4 L	®	NA	Preferred option unless extreme pressure
	chloran- traniliprole	Altacor	70g/ha	®	14	Highly selective and long residual.
	emamectin	Affirm	0.15 - 0.3 L	®	21	Target larvae < 5 mm Add a non-ionic surfactant. Do not apply to crops under visible stress
	deltamethrin	Decis Options Ballistic	0.5 L	®	7	Only use post flowering
Soybean moth	abamectin	Tradelands abamectin 18EC	0.15 or 0.3 L	Permit 86185	28	Target actively feeding larvae i.e. before pupation. Permit expires 30 April 2023
GVB and other pod suckers	deltamethrin	Decis Options Ballistic	0.5 L	®	7	Add 0.5% salt adjuvant for <i>Piezodorus</i>
	clothianidin^P	Shield	0.125 – 0.25 L	Permit 86221	21	Gives better redbanded shield bug control, when applied with a 0.5% w:v salt (NaCl) adjuvant. Permit expires 31 Aug 2021 Do not graze or cut for cattle

✖ **Softness/Hardness** Note: 'Soft' products are selective, i.e. have little to no impact on non-target species. Note that a products impact can vary across beneficial groups, e.g. indoxacarb is hard on ladybirds but much softer on predatory bugs

Highly Selective, i.e. Extremely Soft	Moderately Selective, especially at lower rates	Hard - Disruptive to beneficials	Extremely Hard
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Grass blue butterfly larvae	chlorantraniliprole	Altacor	70g/ha	Permit 87664	14	Altacor or equivalent products containing chlorantraniliprole as their only active ingredient.
Mirids	dimethoate	Dimethoate	0.5 L	®	14	Very effective but rarely needed in soys unless mirid ppn >6/m ²
	indoxacarb	Steward EC	0.4 L + salt	®	21	Add salt (NaCl) @ 5g/L spray volume by ground (100L/ha) or 10g/L by air (30L/ha)
Aphids	pirimicarb ^P	Pirimor	0.2 - 0.3 kg	Permit 85152	14	Act if >threshold by flowering. Very soft - preferred IPM option Permit expires 31 July 2023
	Transform	Sufloxaflor	0.1-0.2 L	®	14	Use higher rate if a dense canopy
	dimethoate	Dimethoate	0.5 L	®	14	Act if >threshold by flowering
Jassids, Leafhoppers	dimethoate	Dimethoate	0.34 L	®	14	Rarely a problem in soybeans
Monolepta beetle	indoxacarb	Steward	0.2 L	®	21	Only 1 spray per crop*
Lucerne crown borer <i>Zygrita diva</i>	fipronil	Legion	200mL per 100kg seed	Permit 86886	NA	Seed dressing. Keep treated seed away from seed for human or animal consumption EXPIRED 31 Jan 2019
	fipronil	SureFire Vista & others	322 mL or 80g depending on formulation	Permit 86908	NA	In furrow spray at planting. Permit expires 30 April 2019
Field cricket	chlorpyrifos	Chlorpyrifos 500	grain bait	®	NA	0.1L/2.5 kg grain bait
Two-spotted mite	abamectin	Tradelands abamectin 18EC	0.3 L	®	28	Act if > 33% of plants infested. Using soft options against other pests greatly reduces the risk of mite attack.

WHP = withholding period (days). * Maximum rate allowed for on label. ®= Registered. Pivot = registered through central pivot. ViVUSMax is a more concentrated NPV product than Gemstar, hence the lower rate.

Trade names listed are examples only and do not signify preference over products not listed (because of limited space).

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From: Wilson *et al.* (2007) Impact of insecticides and miticides on beneficials in Australian cotton. Cotton Pest Management Guide 2007-08. pp. 29-30. CRC & NSW DPI Publication. ISSN1442-8792.

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Qld. Dept. of Agriculture and Fisheries