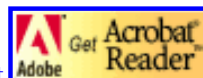


## Insecticides for Control of Defoliating Insects and Other Sporadic Insect Pests in Soybean

*Updated April 13, 2007*

This list is not inclusive. See <http://www.greenbook.net> or other resources for additional registrations. This information is presented in abbreviated form. Be sure to consult the label for additional information and restrictions.

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### IRAC Mode of Action Classification:

- Group 1 = Acetylcholine esterase inhibitors; 1A = Carbamates, 1B = Organophosphates
- Group 3 = Sodium channel modulators
- Group 11 = Microbial disruptors of insect midgut membranes (includes transgenic crops expressing *Bacillus*); 11B2 = *B. t.* subsp. *kurstaki*

**R** = Restricted-Use Product

Mode of Action	Product Name (Common Name)	Rate (Formulation/Acre)	Insects controlled	Restrictions
3 <b>R</b>	Asana 1.9EC (esfenvalerate)	2.9 - 5.8 fl oz  5.8 - 9.6 fl oz	green cloverworm, velvetbean caterpillar, potato leafhopper, saltmarsh caterpillar, woollybear caterpillar  cabbage looper, corn earworm	Do not exceed 0.2 lb ai. per acre per season. 21 day harvest interval. Do not feed or graze livestock on treated plants.
3 <b>R</b>	Baythroid 2 (cyfluthrin)	0.8 - 1.6 fl oz	potato leafhopper, thrips, green cloverworm	45 day pre-harvest interval or period before feeding of dry vines. Green foliage may be fed 15 days after last application.

		1.6 - 2.8 fl oz	armyworm, beet armyworm, blister beetle, cabbage looper, corn earworm, corn rootworms (adult), cucumber beetle, fall armyworm, green cloverworm, saltmarsh caterpillar, stink bugs, velvetbean caterpillar, webworm, woollybear caterpillar, yellowstriped armyworm	
1B	Dimethoate 400  (dimethoate)	1 pt	leafhoppers	21 day harvest interval, Do not feed or graze within 5 days of last application.
11B2	Dipel ES, and other products  ( <i>Bacillus thuringiensis</i> )	1 - 2 pts; see label for other products	armyworms, loopers, green cloverworm, saltmarsh caterpillar, velvetbean caterpillar	
1B <b>R</b>	Lorsban 4E  (chlorpyrifos)	1 - 2 pts	corn earworm, saltmarsh caterpillars and other woollybears	Do not apply more than 6 pints per acre per season. Do not apply last treatment within 28 days before harvest, nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas or otherwise feed treated forage, hay, and straw to meat or dairy animals.
		1 - 1½ pts	armyworms	
		½ - 1 pt	velvet bean caterpillar, green cloverworm	
1A <b>R</b>	Lannate  (methomyl)	1/8 - 1/4 lb; light to moderate infestations.  1/4 - 1/2 lb; moderate to severe infestations.  1/4 - 3/8 lb; light to moderate infestations.  3/8 - 1/2 lb; moderate to severe infestations.	green cloverworm, corn earworm, velvetbean caterpillars  salt marsh caterpillars, thrips, fall armyworm	14 day preharvest interval. Do not apply more than 1.35 lb ai. per acre during a growing season or more than 3 applications per crop. 3 day forage interval. 12 day hay interval.

1A <b>R</b>	Lannate LV (methomyl)	2/5 - 3/4 lb; light to moderate infestations.  3/4 - 1½ lbs; moderate to severe infestations.  3/4 - 1 lb; light to moderate infestations.  1 - 1½ lbs; moderate to severe infestations.	green cloverworm, corn earworm, velvetbean caterpillars  salt marsh caterpillar, thrips, fall armyworm	14 day preharvest interval. Do not apply more than 1.35 lb ai. per acre during a growing season or more than 3 applications per crop. 3 day forage interval. 12 day hay interval.
1A	Larvin 3.2F (thiodicarb)	10 - 16 fl oz  18 - 30 fl oz	corn earworm, fall armyworm, striped armyworm, green cloverworm, woollybear caterpillar  soybean looper, cabbage looper	Do not feed forage hay or straw to livestock. Do not apply less than 28 days before harvest
1B	Malathion 57EC	3 pts	green cloverworm	
3 <b>R</b>	Mustang (zeta-cypermethrin)	1.4 - 4.3 oz  3.0 - 4.3 oz  3.4 - 4.3 oz	thistle caterpillar, saltmarsh caterpillar  armyworms (true and yellowstriped), blister beetles, corn earworm, cucumber beetle, green cloverworm, leafhoppers, velvetbean caterpillar, webworms, woollybear caterpillar  armyworms (beet and fall), loopers, stink bugs, thrips	Do not graze or harvest treated soybean forage, hay, or straw for livestock feed. Do not apply more than 0.3 lbs. a.i. per acre per season. 21 day harvest interval.
1B <b>R</b>	Pennacap-M (methyl parathion)	2 - 3 pts  3 - 4 pts	green cloverworm, potato leafhopper, soybean looper, thrips, velvetbean caterpillar  corn earworm	Do not make more than 2 applications per season. Do not use within 20 days of harvest or grazing.
3 <b>R</b>	Pounce 3.2EC (permethrin)	2 - 4 oz	cabbage looper, cutworms, flea beetles, green cloverworm, potato leafhopper, woollybear caterpillar, salt marsh caterpillar, thistle caterpillar, velvet bean caterpillar	Do not apply more than 0.4 lb ai per acre per season. Do not graze or feed soybean forage or hay. 60 day preharvest interval

		4 - 8 oz	beet armyworm, corn earworm, soybean looper, webworms	
3 R	Pounce 25WP (permethrin)	3.2 - 6.4 oz	cabbage looper, flea beetles, green cloverworm, potato leafhopper, woollybear caterpillar, salt marsh caterpillar, thistle caterpillar, velvet bean caterpillar	Do not apply more than 0.4 lb ai per acre per season. Do not graze or feed soybean forage or hay. 60 day preharvest interval
		6.4 - 12.8 oz	beet armyworm, corn earworm, soybean looper, webworms	
3 R	Proaxis (gamma-cyhalothrin)	1.92 - 3.2 fl oz	cabbage looper, corn earworm, green cloverworm, thistle caterpillar, potato leafhopper, saltmarsh caterpillar, thrips, velvetbean caterpillar, woollybear caterpillar	Do not apply within 30 days of harvest or more than 0.48 pints per acre per season.
		3.2 - 3.84 fl oz	blister beetles and european corn borer fall armyworm and armyworms (1st and 2nd instars only)	
		3.84 fl oz	soybean looper (for suppression only)	
3 R	Scout 0.3 EC (tralomethrin)	1.71 - 2.28 fl oz	green cloverworm, velvetbean caterpillar, leafhopper, corn earworm	Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not apply more than 17 fl. oz per acre in one growing season. Do not apply within 21 days of harvest
		2.28 - 3.41 fl oz	fall armyworm, beet armyworm, cabbage looper	
1A	Sevin XLR Plus, 4F (carbaryl)	½ - 1 qt	blister beetles, cucumber beetles, grape colapsis, green cloverworm, velvetbean caterpillar	Do not apply with 14 days of grazing or harvest for forage, or within 21 days of harvest. Do not apply more than 6 quarts per acre per crop.
		½ - 1 ½ qt	corn earworm	
		1 qt	thrips, western bean cutworm, flea beetles, leafhoppers	

		1 - 1½ qt	thistle caterpillar, saltmarsh caterpillar, woollybear caterpillar, yellowstriped armyworm	
1A	Sevin 80S (carbaryl)	5/8 - 1 ¼ lb	blister beetles, cucumber beetles, grape colapsis, green cloverworm, velvetbean caterpillar	Do not apply with 14 days of grazing or harvest for forage, or within 21 days of harvest. Do not apply more than 7.5 lbs per acre per crop.
		5/8 - 1 7/8 lbs	corn earworm	
		1¼ lbs	thrips, western bean cutworm, flea beetles, leafhoppers	
		1 ¼ - 1 7/8 lbs	armyworms, fall armyworm, webworms	
		1 7/8 lbs	thistle caterpillar, saltmarsh caterpillar, woollybear caterpillar, yellowstriped armyworm	
3 R	Warrior 1.0 EC (lambda-cyhalothrin)	1.92 - 3.2 fl oz	corn earworm, velvetbean caterpillar, green cloverworm, cabbage looper, saltmarsh caterpillar, woollybear caterpillar, cucumber beetle, potato leafhopper, thrips	Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not apply within 45 days of harvest. Do not apply more than 0.48 pints per acre per season.
		3.2 - 3.84 fl oz	fall armyworm, yellowstriped armyworm, webworms, blister beetles	