

Insecticide Treatment Options for Grasshopper in Soybean

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See <https://www.greenbook.net> or other resources for additional registrations.

*Consult product label for specific information and restrictions.

IRAC Mode of Action Classification:

- Group 1 = Acetylcholine esterase inhibitors; 1A = Carbamates, 1B = Organophosphates
- Group 3 = Sodium channel modulators
- Group 4 = Nicotinic acetylcholine receptor agonists/antagonists; 4A = Neonicotinoids
- Group 9 = Chordotonal organ TRPV channel modulators; 9D = Pyropenes
- Group 15 = Inhibitors of chitin biosynthesis, type 0
- Group 28 = Ryanodine receptor modulators, Diamides

R = Restricted-Use Product

Mode Of Action	Product Name	Common Name	Rate (Formulation/Acre)	Restrictions/Comments
3 R	Asana XL	esfenvalerate	5.8 - 9.6 fl oz	PHI 21 days. Do not feed or graze livestock on treated fields.
3 R	Baythroid XL	cyfluthrin	2.0 - 2.8 fl oz	PHI 21 days for seed. Green foliage may be fed 15 days after last application. Maximum 2.8 fl oz/acre allowed in 7 day interval, maximum 11.2 fl oz per crop season.
3, 28 R	Besiege	lambda-cyhalothrin,	8 - 10 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.

		chlorantraniliprole		
3 R	Brigade 2EC	bifenthrin	2.1-6.4 fl oz	PHI 18 days.
3 R, 4A	Brigadier	bifenthrin, imidacloprid	3.8 – 6.1 fl oz	PHI 21 days. PHI 45 days for feeding of dry vines. PHI 18 days for feeding of green vines.
3 R	Capture LFR	bifenthrin	2.8 – 8.5 fl oz	Do not make applications less than 30 days apart. PHI 18 days.
1B, 3 R	Cobalt	chlorpyrifos and cyhalothrin	7 - 13 fl oz	PHI 30 days. Maximum allowed per crop season is 85 fl oz/acre. Do not allow meat or dairy animals to graze in treated areas or feed treated soybean forage, hay, and straw to meat or dairy animals.
1B, 3 R	Cobalt Advanced	chlorpyrifos and lambda- cyhalothrin	6 - 13 fl oz	PHI 30 days. Maximum allowed per crop season is 85 fl oz/acre. Do not allow meat or dairy animals to graze in treated areas or feed treated soybean forage, hay, and straw to meat or dairy animals.
3 R	Declare	gamma-cyhalothrin	1.28 – 1.54 fl oz	PHI 45 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3 R	Delta Gold 1.5 EC	deltamethrin	1.5 - 2.4 fl oz	PHI 21 days. Maximum allowed per crop season is 8.5 fl oz/acre. Do not allow livestock to graze treated forage, or feed treated hay to livestock.
1B	Dimethoate 400	dimethoate	1 pt	PHI 21 days. Maximum application rate is 0.5 lb/acre. 7 day reapplication interval.
15 R	Dimilin 25W, 2L	diflubenzuron	2 fl oz	PHI 21 days. No more than 2 applications per season. Treat when majority of grasshoppers have reached 2nd - 3rd instar.
3, 4A R	Endigo ZC	lambda-cyhalothrin and thiamethoxam	4.0 - 4.5 fl oz	PHI 30 days. Do not exceed a total of 9.0 fl oz per acre per growing season. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3 R	Fastac EC	alpha-cyhalothrin	3.2 - 3.8 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.

3 R	Hero	zeta-cypermethrin and bifenthrin	2.6 - 6.1 oz	PHI 21 days. Do not make applications less than 30 days apart. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3, 4A R	Leverage 360	imidacloprid and cyfluthrin	2.8 fl oz	PHI 21 days for seed and 15 days for dry vines (hay) and green forage. Minimum of 7 day interval between applications. Maximum of 9.0 fl oz/acre per crop season.
1B R	Lorsban Advanced, Nufos 4E	chlorpyrifos	1 - 2 pts	PHI 28 days. Do not apply more than 3 applications of Lorsban Advanced or other product containing chlorpyrifos per year. Limit 6 pints per acre per season. Do not make a second application of Lorsban Advanced within 14 days of the first application. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.
3 R	Mustang MAX EC	zeta-cypermethrin	3.2 - 4.0 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed. Use higher recommended dosage for increased pest pressure, increased residual pest control or later-season applications.
1B R	Orthene 90S, Bracket 90WDG	acephate	0.28 - 0.56 lbs	PHI 14 days. Air applications - 5-10 gal/acre spray solution. Ground Application - 10-50 gal/acre spray solution.
1B R	PennCap-M	methyl parathion	2 - 3 pts	PHI 30 days for harvest or grazing. Do not make more than 2 applications per season. Do not apply more than once every 7 days.
28	Prevathon	chlorantraniliprole	8 - 20 fl oz	PHI 1 day. Minimum interval between treatments is 3 days. Make no more than 4 applications per acre per crop.
3 R	Proaxis	gamma-cyhalothrin	3.2 - 3.84 fl oz	PHI 45 days. Do not graze or harvest treated

				soybean forage, straw, or hay for livestock feed.
3A, 9D R	Renestra	afidopyropen and alpha-cypermethrin	6.8 fl oz	PHI 21 days. Maximum amount applied per year is 13.7 fl oz per acre. Minimum re-treatment interval is 7 days. Do not feed or graze soybean hay or forage.
3 R	Respect	zeta-cypermethrin	3.2 - 4.0 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3A, 1B R	Stallion	zeta-cypermethrin and chlorpyrifos	5.0 - 11.75 fl oz	PHI 28 days. Do not make applications of Stallion less than 14 days apart. Do not make more than 3 applications per season. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.
3A R	Steed	zeta-cypermethrin and bifenthrin	3.5 - 4.7 fl oz	PHI is 21 days. Do not make applications less than 30 days apart and do not apply more than 28.1 fl oz per acre per season. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
3A, 4A R	Swagger	bifenthrin and imidacloprid	7.6 - 12.2 fl oz	PHI 18 days. Minimum interval between applications: 30 days. Apply a maximum of 2 applications per season.
3A, 4A R	Triple Crown	zeta cypermethrin, bifenthrin and imidacloprid	4.8 fl oz	PHI 21 days. Minimum application interval: 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
1B, 3 R	Tundra Supreme	chlorpyrifos and bifenthrin	5.6 - 16.8 fl oz	PHI 28 days. Do not allow meat or dairy animals to graze in treated areas or otherwise feed treated soybean forage, hay and straw to meat or dairy animals.
3 R	Warrior w/ Zeon Technology, Silencer	lambda-cyhalothrin	3.2 - 3.84 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
3 R	Warrior II w/ Zeon Technology	lambda-cyhalothrin	1.60 - 1.92 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.

