

Insecticide Treatment Options for Soil Cutworm 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 28 = Ryanodine receptor modulators, Diamides

R = Restricted-Use Product

Mode Of Action	Product Name	Common Name	Rate (Formulation/Acre)	Restrictions/Comments
3 R	Ambush	permethrin	3.2 - 6.4 fl oz	PHI 60 days. Do not graze treated areas or harvest for forage or hay.
3 R	Arctic 3.2 EC	permethrin	2 - 4 fl oz	PHI 60 days. Do not graze treated areas or feed forage for hay.
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	0.8 - 1.6 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, chlorantraniliprole	5 - 8 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
3 R	Brigade 2EC	bifenthrin	2.1-6.4 fl oz	PHI 18 days.
3 R, 4A	Brigadier	bifenthrin, imidacloprid	5.1 – 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	At Planting: 3.4 – 6.8 fl oz Pre-Plant Incorporated: 4.0-5.3 fl oz Pre Emergence: 3.4 fl oz Foliar: 2.8 – 8.5 fl oz	Capture LFR insecticide is for mixing directly with liquid fertilizer to control soil insect pests. Do not apply to soil where there is greater than 30% cover of crop residue remaining. Foliar restrictions: Do not make applications less than 30 days apart. PHI 18 days.
1B, 3 R	Cobalt	chlorpyrifos and cyhalothrin	Planting time or Pre Emergence: 13 - 38 fl oz Post Emergence: 13 - 26 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	Planting time or Pre Emergence: 11 - 38 fl oz Post Emergence: 11 - 26 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	0.77 – 1.28 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	1.0 - 1.5 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.
3, 4A R	Endigo ZC	lambda-cyhalothrin and thiamethoxam	3.5 - 4.0 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.
3A R, 44 (fungicide)	Ethos 3D	bifenthrin, (<i>B. amyloliquefaciens</i>)	0.21 – 0.52 fl oz/1000 ft	Apply in-furrow with the seed. Must be applied with a 3RIVE 3D system.
3A R, 44 (fungicide)	Ethos XB	bifenthrin, (<i>B. amyloliquefaciens</i>)	At-Plant: 3.4 – 8.5 fl oz PPI: 4.0 – 5.3 fl oz PRE: 3.4 fl oz Foliar: 2.8 – 8.5 fl oz	Foliar Restrictions: Do not make applications less than 30 days apart. PHI 18 days.
3 R	Fastac EC	alpha-cyhalothrin	1.3 - 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 fl 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.
1A	Larvin 3.2	thiodicarb	20-30 fl oz	PHI 28 days. Do not feed forage, hay, or straw to livestock.
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.
1B R	Methyl 4 EC	methyl parathion	0.75 - 1 pt	PHI 20 days for harvest and grazing. Do not make more than 2 applications per year.
3 R	Mustang Max EC	zeta-cypermethrin	1.28 - 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.
3 R	Pounce 25 WP	permethrin	3.2 - 6.4 oz	PHI 60 days. Do not apply more than 0.4 lb ai per acre per season. Do not graze or feed soybean forage or hay.
3 R	Proaxis	gamma-cyhalothrin	1.92 - 3.20 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	1.28 - 4.0 fl oz	PHI 21 days. Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
1A	Sevin XLR Plus, 4 F	carbaryl	1 - 1.5 qts	PHI 21 days for grain. PHI 14 days for grazing and forage. Do not apply more than 6 quarts per acre per crop.
1A	Sevin 80 S	carbaryl	1 1/2 - 1 7/8 lb	PHI 21 days for grain. PHI 14 days for grazing and

				forage. Do not apply more than 7.5 lb per acre per crop.
3A, 1B R	Stallion	zeta-cypermethrin and chlorpyrifos	3.75 - 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	2.5 - 3.5 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	3.5 - 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	1.92 - 3.20 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	0.96 - 1.60 fl oz	PHI 30 days. Do not graze or harvest treated soybean forage, straw or hay for livestock feed.