

Insecticide Treatment Options for Armyworm in Field Corn

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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 5 = Nicotinic acetylcholine receptor agonists (allosteric), Spinosyns
- Group 11 = Microbial disruptors of insect midgut membranes (includes transgenic crops expressing *Bacillus*); 11A = *B. t.* subsp. *kurstaki*
- Group 18 = Ecdysone receptor agonists, Diacylhydrazines
- 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 2EC	permethrin	At Planting: 0.5 fl oz/1000 row ft Pre-Emergence, and Post-Emergence: 6.4-12.8 fl oz	Apply in an in-furrow, band, or t-band at planting in a minimum of a 4-inch band. PHI 30 days for grain or fodder (stover). Forage may be harvested on the day of application.
3 R	Arctic 3.2EC	permethrin	At Planting: 0.3 fl oz/1000 row ft Pre-Plant Incorporated or Pre-Emergence: 0.3-0.6 fl oz/1000 row ft or 4-6 fl oz/acre	Planting time: apply as an in-furrow, band or t-band treatment using a minimum 4 inch band. Pre-Plant Incorporated and Pre-Emergence: apply in time period from 5 days prior to planting up to emergence of the crop. PHI 30 days for harvest of grain or fodder (stover). Forage may be harvested on the day of application.

			Post Emergence: 4-6 fl oz/acre	
3 R	Asana XL	esfenvalerate	5.8-9.6 fl oz	PHI 21 days.
3 R	Baythroid XL	cyfluthrin	1.6-2.8 fl oz	PHI 21 days for grain or fodder and 0 days for green forage. Recommended for use against 1st and 2nd instar larvae.
28	Belt SC	flubendiamide	2-3 fl oz	PHI 1 day for green forage and silage and 28 days for grain or stover.
3, 28 R	Besiege	lambda-cyhalothrin, chlorantraniliprole	6-10 fl oz	PHI 21 days. Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment. Use higher listed rates within the listed rate range for large larvae.
11A	Biobit, Deliver, Dipel, Lepinox, XenTari, etc.	<i>Bacillus thuringiensis</i>	See Product Label	PHI 30 days.
3R	Brigade 2EC, Fanfare 2EC, Bifenture EC, Discipline 2EC, Sniper, Tundra EC	bifenthrin	At Planting: 0.15-0.30 fl oz/1000 row ft Pre-Plant Incorporated: 3-4 fl oz/acre Pre-Emergence: 2.56 fl oz/acre Post Emergence: 2.1-6.4 fl oz/acre	PHI 30 days. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply to soil where there is greater than 30% cover of crop residue remaining.
3 R	Capture 3RIVE 3D	bifenthrin	At Planting: 4-16 fl oz/acre	Liquid insecticide for use in a 3RIVE 3D system only.
3 R	Capture LFR	bifenthrin	At Planting: 0.20-0.39 fl oz/1000 row ft Pre-Plant Incorporated: 4.0-5.3 fl oz/acre Pre Emergence: 3.4 fl oz/acre	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.

1B, 3 R	Cobalt	chlorpyrifos and gamma cyhalothrin	PrePlant, At-Plant, or Pre-Emergence: 13-38 fl oz Post-Emergence: 13-26 fl oz	PHI 21 days for grain, ears, forage or fodder.
1B, 3 R	Cobalt Advanced	chlorpyrifos and gamma cyhalothrin	PrePlant, At-Plant, or Pre-Emergence: 11-38 fl oz Post-Emergence: 11-26 fl oz	PHI 21 days for grain, ears, forage or fodder.
28	Coragen	chlorantraniliprole	3.5-7.5 fl oz	PHI 14 days.
3 R	Declare	gamma-cyhalothrin	1.02-1.54 fl oz	PHI 21 days for grain, silage and fodder.
3 R	Delta Gold	deltamethrin	1.5-1.9 fl oz	PHI 21 days for grain or fodder. PHI 12 days for cutting or grazing for forage.
11A	Dipel ES	<i>Bacillus thuringiensis kurstaki</i> strain ABTS-351	2.0-4.0 pts	Treat when plants first exhibit feeding signs in the whorl of leaves.
3 R	Ethos 3D	bifenthrin	At Planting: 0.21-1.05 fl oz/1000 row ft	Liquid insecticide/fungicide for use in a 3RIVE 3D system only.
3 R	Ethos XB	bifenthrin	At Planting: 3.4-17.0 fl oz/acre PPI: 4-5.3 fl oz/acre PRE: 3.4 fl oz/acre Foliar: 2.8-8.5 fl oz/acre	For mixing directly with liquid fertilizer to control listed soil pests. Contains a fungicide, <i>Bacillus amyloliquifaciens</i> strain D747 for suppression of seedling diseases. PHI 30 days for grain, silage and grazing.
3 R	Fastac EC	alpha-cypermethrin	3.2-3.8 fl oz	PHI 30 days for grain and stover. PHI 60 days for forage.
3 R	Hero	zeta-cypermethrin and bifenthrin	4.0-10.3 fl oz	Labelled for at planting-time and foliar applications. For armyworm spp. at planting, apply on the soil surface in a 5-7 inch band in a minimum of 3-7 gallons per acre. PHI

				30 days for grain and stover and 60 days for forage.
18	Intrepid 2F	methoxyfenozide	4-16 fl oz	PHI 21 days.
1A R	Lannate LV	methomyl	0.75-1.50 pts	PHI 21 days for ears and stover, and 3 days for forage.
1A R	Lannate SP	methomyl	0.25-0.50 lb	PHI 21 days for ears and stover, and 3 days for forage.
1B R	Lorsban Advanced, Lorsban 4E, Govern 4E, Hatchet, Warhawk, Yuma 4E	chlorpyrifos	1-2 pts	PHI 21 days before harvest of grain, ears, forage or fodder.
3 R, and 11 (fungicide)	Manticor LFR	bifenthrin and pyraclostrobin	At Planting: 0.49-1.09 fl oz/1000 row ft	For soil insect pests and soilborne/seedling disease control and plant health in corn by mixing directly with liquid fertilizer using at-plant (t-band or in-furrow) applications.
1B R	Methyl 4EC	methyl parathion	0.5 pt	PHI 12 days. Do not apply during the pollen shed period.
3 R	Mustang Maxx, Respect	zeta-cypermethrin	3.2-4.0 fl oz	PHI 30 days for grain and stover. PHI 60 days for forage.
1B R	Lorsban Advanced, Lorsban 4E, Govern 4E, Hatchet, Nufos 4E, Warhawk, Yuma 4E	chlorpyrifos	1-2 pts	For aerial applications use 2 - 5 gal of spray per acre. Do not apply within 35 days of harvest of grain.
1B R	PennCap-M	microencapsulated methyl parathion	2-3 pts	PHI 12 days for harvest, forage and grazing.
3 R	Pounce 1.5G	permethrin	6.7-10.0 lbs broadcasted, 8 oz/1000 row ft	May be applied as a pre-plant incorporated, pre-emergence, planting time or foliage use application. Do not make treatments less than 7 days apart. PHI 30 days for grain and fodder (stover). Forage may be harvested on the day of application.
3 R	Pounce 25WP	permethrin	6.4-9.6 oz	Up to 0.6 lb ai per acre may be used per season.
3 R	Proaxis	gamma- cyhalothrin	2.56-3.84 fl oz	For control of 1st and 2nd instars only. PHI 21 days.
5	Radiant SC	spinetoram	3-6 fl oz	*Not labelled for control of yellowstriped armyworm or western yellowstriped armyworm.

				PHI 28 days for grain and 3 days for fodder or forage.
1A	Sevin XLR Plus	carbaryl	1-2 qts	PHI 48 days for grain and fodder or 14 days for grazing and silage.
1B, 3 R	Stallion	chlorpyrifos + zeta-cypermethrin	9.25-11.75 fl oz	PHI 30 days for grain or stover and 60 days for forage.
3 R	Steed	zeta-cypermethrin and bifenthrin	3.5-4.7 fl oz	PHI 30 days for grain or stover and 60 days for forage. Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.
3 R	Temitry LFR	bifenthrin	At Planting: 8.5-19 fl oz/acre	For soil insect pests and soilborne/seedling disease control and plant health in corn by mixing with liquid fertilizer using at-plant (t-band or in-furrow) applications.
5	Tracer	spinosad	1-3 fl oz	PHI 28 days for grain and 3 days for fodder or forage harvest.
3 R	Tombstone	cyfluthrin	1.6-2.8 fl oz	PHI 21 days for grain or fodder and 0 days for green forage. Recommended for use against 1st and 2nd instar larvae.
1B, 3 R	Tundra Supreme	chlorpyrifos and bifenthrin	At Planting: 0.4-0.8 fl oz Post-Emergence: 5.6-16.8 fl oz	PHI 30 days for grain and silage. Shallow incorporation using a rotary hoe or other equipment may improve control.
3 R	Warrior w/ Zeon Technology, Silencer	lambda-cyhalothrin	2.56-3.84 fl oz	Recommended for control of 1st and 2nd instars only. PHI 21 days for harvest, grazing or cutting treated crops for feed.
3 R	Warrior II w/ Zeon Technology, Lamcap II	lambda-cyhalothrin	1.28-1.92 fl oz	Recommended for control of 1st and 2nd instars only. PHI 21 days for harvest, grazing or cutting treated crops for feed.
3 R	Xpedient Plus V	bifenthrin	At Planting: 2.56-10.24 fl oz/acre OR 0.15-0.60 fl oz/1000 row ft Pre-Plant Incorporated: 3-4 fl oz Pre-emergence: 2.56 fl oz	Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch t-band over the open furrow, in-furrow or broadcast to the soil surface. Incorporation of this product should be close to the intended seed planting depth, and no deeper than 3 inches. May be applied and can be tank mixed with pre-emergence herbicides.

