

Insecticide Treatment Options for European Corn Borer in Field Corn

Updated December 06, 2019

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 agonists/moulting disruptors; 18A = Diacylhydrazines
- Group 22 = Voltage-dependent sodium channel blockers, 22A = Oxadiazines
- 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	6.4-12.8 fl oz	*For use against 2nd generation larvae. PHI 30 days for grain or fodder (stover). Forage may be harvested on the day of application.
3 R	Arctic 3.2EC	permethrin	4-6 fl oz	*For use against 2nd generation larvae. PHI 30 days for harvest of grain or fodder (stover). Forage may be harvested on the day of application.
3 R	Asana XL	esfenvalerate	7.8-9.6 fl oz	*For use against 2nd generation larvae. PHI 21 days.
3 R	Baythroid XL, Tombstone	cyfluthrin	1.6-2.8 fl oz	*For use against 2nd generation larvae. Application must be made prior to the larva boring into the plant. PHI 21 days for grain or fodder and 0 days for green forage.
28	Belt SC	flubendiamide	2-3 fl oz	*For use against 2nd generation larvae. 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. For control before the larva bores into the plant stalk or ear.

11A	Biobit, Deliver, Dipel, XenTari, etc.	<i>Bacillus thuringiensis</i>	*Please see specific product labels for rates and uses.	For use against 1st and/or 2nd generation larvae.
3 R	Brigade 2EC, Fanfare 2EC, Bifenture EC, Discipline 2EC, Sniper, Tundra EC	bifenthrin	2.1-6.4 fl oz	*For use against 2nd generation larvae. PHI 30 days. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
1B, 3 R	Cobalt	chlorpyrifos and gamma-cyhalothrin	19-38 fl oz	PHI 21 days for grain, ears, forage or fodder.
1B, 3 R	Cobalt Advanced	chlorpyrifos and gamma cyhalothrin	16-38 fl oz	PHI 21 days for grain, ears, forage or fodder.
28	Coragen	rynaxypry	3.5-7.5 fl oz	*For use against 2nd generation larvae. PHI 14 days.
3 R	Declare	gamma-cyhalothrin	1.02-1.54 fl oz	PHI 21 days for grain, livestock grazing or silage harvest.
3 R	Delta Gold	deltamethrin	1.5-1.9 fl oz	*For use against 2nd generation larvae. PHI 21 days for grain or fodder. PHI 12 days for cutting or grazing for forage. Apply to early instar larvae prior to boring into the ear or stalk.
11A	Dipel ES	<i>Bacillus thuringiensis kurstaki</i> strain ABTS-351	1.5-2.5 pts	Application should be made when larvae are in the early instar stage.
3 R	Ethos XB	bifenthrin	2.8-8.5 fl oz	PHI 30 days for grain, silage and grazing. Make initial application at or shortly before egg hatch.
3 R	Fastac EC	alpha-cypermethrin	2.7-3.8 fl oz	For control before the larva bores into the plant stalk or ear. 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	*For use against 2nd generation larvae. 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.
18	Intrepid 2F	methoxyfenozide	4-16 fl oz	*For use against 2nd generation larvae. PHI 21 days.
1A R	Lannate LV	methomyl	0.75-1.50 pts	*For use against 2nd generation larvae. PHI 21 days for ears and stover, and 3 days for forage.
1A R	Lannate SP	methomyl	0.25-0.50 lb	*For use against 2nd generation larvae. PHI 21 days for grain or fodder and 3 days for forage.
1B	Lorsban 15G	chlorpyrifos	Post-Plant Banded	*For use against 1st generation larvae. PHI 35 days for grain. Do not

			Applications via Conventional and SmartBox Systems: 3.5-8.0 oz/1000 row ft Aerial Broadcast Applications: 5.0-6.5 lbs/acre	allow meat or dairy animals to graze in treated areas or harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.
1B R	Lorsban Advanced, Lorsban 4E, Govern 4E, Hatchet, Nufos 4E, Warhawk, Yuma 4E	chlorpyrifos	1-2 pts	*For use against 2nd generation larvae. PHI 21 days before harvest of grain, ears, forage or fodder.
3 R	Mustang Maxx, Respect	zeta-cypermethrin	2.72-4.0 fl oz	*For use against 2nd generation larvae. Apply before larvae bores into stalk or ear. PHI 30 days for grain and stover. PHI 60 days for forage.
1B R	PennCap-M	methyl parathion	2-4 pts	*For use against 2nd generation larvae. PHI 12 days for harvest, forage and grazing.
3 R	Pounce 1.5G	permethrin	6.7-10.0 lbs	*For use against 1st generation larvae. 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	*For use against 2nd generation larvae. PHI 30 days for grain or fodder and 0 days for forage.
28	Prevathon	chlorantraniliprole	14-20 fl oz	*For use against 1st or 2nd generation larvae. PHI 14 days for harvest of ears and 1 day for forage, fodder, silage or stover.
3 R	Proaxis	gamma-cyhalothrin	2.56-3.84 fl oz	*For use against 2nd generation larvae. For control of larvae before they bore into the stalk or ear. PHI 21 days.
5	Radiant SC	spinetoram	3-6 fl oz	*For use against 2nd generation larvae. PHI 28 days for grain and 3 days for fodder or forage.
1A	Sevin XLR Plus	carbaryl	1.5-2.0 qts	*For use against 2nd generation larvae. PHI 48 days for grain or fodder and 14 days for grazing of forage or silage.
1B, 3 R	Stallion	chlorpyrifos + zeta-cypermethrin	9.25-11.75 fl oz	*For use against 2nd generation larvae. For control before the larva bores into the stalk or ear. 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	*For use against 2nd generation larvae. 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.
22A	Steward EC	indoxacarb	6.0-11.3 fl oz	PHI 14 days for grain or stover and 1 day for forage, fodder and silage.
5	Tracer	spinosad	1-3 fl oz	*For use against 2nd generation larvae. PHI 28 days for grain and 3 days for fodder or forage harvest.
1B, 3 R	Tundra Supreme	chlorpyrifos and bifenthrin	5.6-16.8 fl oz	*For use against 1st or 2nd generation larvae. PHI 30 days for grain and silage.
3 R	Warrior w/ Zeon Technology, Silencer	lambda-cyhalothrin	2.56-3.84 fl oz	*For use against 2nd generation larvae. For control before the larvae bores into the stalk or ear. 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	*For use against 2nd generation larvae. For control before the larvae bores into the stalk or ear. PHI 21 days for harvest, grazing or cutting treated crops for feed.