

## Insecticide Treatment Options for White Grubs 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; 1B = Organophosphates
- Group 3 = Sodium channel modulators
- Group 4 = Nicotinic acetylcholine receptor agonists/antagonists; 4A = Neonicotinoids
- Group 6 = Chloride channel activators
- Group 28 = Ryanodine receptor modulators, Diamides

**R** = Restricted-Use Product

**NOTE: In-furrow applications are recommended for control of white grubs.**

Mode Of Action	Product Name	Common Name	Rate (/1000 row ft)	Restrictions/Comments
4A <b>R</b>	Avicta Complete Corn	thiamethoxam	0.5 mg ai/kernel	Pre-treated seed treatment to protect corn seedlings from early season insect damage.
4A, 6 <b>R</b>	Avicta Duo Corn	thiamethoxam and abamectin	Pre-treated seed treatment to protect corn seedlings from early season nematode and insect damage.	Treated seed must be planted into the soil at a depth greater than 1 inch. Allow a minimum of 45 days after planting Avicta Duo Corn treated corn seed before treating the corn with a neonicotinoid insecticide.
1B, 3 <b>R</b>	Aztec 2.1G	tebupirimphos and cyfluthrin	6.7 oz	Optimum control achieved when applied as a T-band or in-furrow application. Field, sweet, seed, and popcorn
1B, 3 <b>R</b>	Aztec 4.67G via SmartBox Systems	tebupirimphos and cyfluthrin	3 oz	Optimum control achieved when applied as a T-band or in-furrow application. Granular insecticide for use in SmartBox system only. For use on field corn, popcorn, corn grown for seed or silage.
1B, 3 <b>R</b>	Aztec HC	tebupirimphos and cyfluthrin	1.5 oz	T-band or in-furrow application. Apply with SmartBox system.

3 R	Ballista LFC	lambda-cyhalothrin	11.5 fl oz/acre  At Planting: 0.66 fl oz/1000 row ft	May be applied as a T-band, or in-furrow application.
3 R	Brigade 2EC, Fanfare 2EC, Bifenture EC, Discipline 2EC, Sniper, Tundra EC	bifenthrin	At Planting: 0.15-0.30 fl oz  Pre-Plant Incorporated: 3-4 fl oz/acre	At planting-time apply as a 5-7 inch t-band treatment over an open seed furrow. 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	4-16 fl oz/acre	Liquid insecticide for use in a 3RIVE 3D system only.
3 R	Capture LFR	bifenthrin	At Planting: 0.20-0.78 fl oz/1000 row ft  Pre-Plant Incorporated: 4.0-5.3 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. Planting time, and Pre-Plant Incorporated.
1B, 3 R	Cobalt, Cobalt Advanced	chlorpyrifos and gamma cyhalothrin	2.87 fl oz/1000 row ft	Apply as a t-band application over the open seed furrow and incorporate into the top 1-inch of soil using tines, chains or other suitable equipment. PHI 21 days for grain, ears, forage or fodder.
1B R	Counter 15G, via Lock'n Load and SmartBox Systems	terbufos	6-8 oz	Apply in-furrow, or band. If application is made at planting, do not make postemergence or cultivation time treatments of Counter 15G. Do not graze or cut for forage within 30 days of treatment. ALS-inhibiting herbicides should not be used if Counter 15G has been applied to corn at the time of planting. Counter 15G may be applied 7 days after applicaton of ALS-inhibiting herbicides.
1B R	Counter 20G, via Lock'n Load and via SmartBox Systems	terbufos	4.5-6.0 oz	Apply in-furrow, T-band, or band. For field corn and popcorn. If application is made at planting, do not make postemergence or cultivation time treatments of Counter 20G. Do not graze or cut for forage within 30 days of treatment. ALS-inhibiting herbicides should not be used if Counter 20G has been applied to corn at the time of planting. Counter 20G may be applied 7 days after application of ALS-inhibiting herbicides.
4A	Cruiser 5FS	thiamethoxam	Pre-treated seed. 0.125 mg ai/K	Treated seed must be planted into the soil at a depth greater than 1 inch. Do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed

				treated with Cruiser 5FS.
3 R	Declare	gamma-cyhalothrin	0.26 fl oz	PHI 21 days for grain, livestock grazing or silage harvest.
1B, 3 R	Defcon 2.1G	phosphorothionate and cyfluthrin	6.7 oz	Apply infurrow or T-band for optimum control. Defcon 2.1G is not systemic and will not interact with corn herbicides. For field, sweet, seed, silage and popcorn.
3 R	Ethos 3D	bifenthrin	0.21-1.05 fl oz	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	For mixing directly with liquid fertilizer to control listed soil pests. Contains a fungicide, <i>Bacillus amyloliquefaciens</i> strain D747 for suppression of seedling diseases.
3 R	Force 3G via Conventional and SmartBox Systems	tefluthrin	4-5 oz	For best control apply the granules as an in-furrow treatment. Use 5 oz rate for heavy infestations. Field, sweet, seed and popcorn.
3 R	Force 6.5G	tefluthrin	1.8-2.3 oz/1000 row ft	Field corn, popcorn and seed corn. Banded, T-band, or in-furrow placement at planting. Banded granules must be incorporated into the top one inch of soil using tines, press wheels, closing wheels or other suitable equipment.
3 R	Force 10G HL SmartBox Systems	tefluthrin	1.25-1.5 oz/1000 row ft	Field corn, popcorn and seed corn. Banded, T-band, or in-furrow placement at planting. Banded granules must be incorporated into the top one inch of soil using tines, press wheels, closing wheels or other suitable equipment.
3 R	Force CS, Force EVO	tefluthrin	0.46-0.57 fl oz	Field corn, popcorn, sweet corn and seed corn. For best control apply as an infurrow treatment. T-band applications need to be followed by an incorporation of 1 inch into the soil either by using tines, press wheels, closing wheels, or other suitable equipment which are either attached to the planter or part of the planter system.
1B R	Fortress 5G via SmartBox Systems	chlorethoxyfos	3.0-3.75 oz	For use with SmartBox closed handling application system. Field corn, popcorn, seed corn. Apply T-band or in-furrow. In-furrow applications provide optimal control of grubs.
4A	Gaicho 600, Macho, Concur, Senator	imidacloprid	Pre-treated seed.	Treated seed must be adequately covered with soil at planting.
3 R	Hero	zeta-cypermethrin	4.0-10.3 fl oz/acre	Apply infurrow or in a 3-4 inch t-band at planting in a

		and bifenthrin		minimum of 3-7 gallons per acre. PHI 30 days for grain and stover and 60 days for forage.
1B, 3 R	Index	bifenthrin and chlorethoxyfos	0.44-0.72 fl oz/1000 row ft	Field corn, popcorn, sweet corn and seed corn. Apply as an in-furrow application only at planting.
1B	Lorsban 15G, via Conventional and SmartBox Systems	chlorpyrifos	8 oz	Field, sweet, and seed corn. PHI 35 days for grain. Do not 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.
28	Lumivia	chlorantriliprole	0.25-0.75 mg ai/kernel	Do not exceed a maximum of 0.054 lb ai/A
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.
4A	Poncho 600	clothianidin	Pre-treated seed. 0.25 - 0.50 mg ai/K.	A systemic insecticide seed treatment for control of listed insect pests.
4A	Poncho/Votivo	clothianidin/ <i>Bacillus firmus</i> I-1582	Pre-treated seed. 0.5 mg ai/kernel.	A systemic insecticide and biological seed treatment for control of listed insect pests and protection from listed soil plant pathogenic nematodes. Use planting equipment that will plant treated seed into the soil to a minimum depth of 0.5 inch.
3 R	Proaxis	gamma-cyhalothrin	0.66 fl oz	Apply in a 5 to 7 inch t-band or in-furrow in a minimum spray volume of 3 GPA. PHI 21 days.
1B, 3 R	SmartChoice 5G via SmartBox System	chlorethoxyfos and bifenthrin	3-5 oz	Do not make more than one application per year.
1B, 3 R	SmartChoice HC SmartBox System	chlorethoxyfos and bifenthrin	1.0-1.67 oz/1000 row ft	Field corn, popcorn, sweet corn and seed corn. Apply as an in-furrow application only at planting. Do not make more than one application per year.
3 R	Temitry LFR	bifenthrin	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 t-band or in-furrow applications.
1B R	Thimet 20G via Lock'n Load and SmartBox Systems	phorate	4.5-6.0 oz	Do not use in-furrow application. Granules must be incorporated into the soil.
1B, 3 R	Tundra Supreme	chlorpyrifos	0.4-0.8 fl oz	PHI 30 days for grain and silage.

		and bifenthrin		
3 R	Warrior w/ Zeon Technology, Silencer	lambda-cyhalothrin	0.66 fl oz	PHI 21 days for harvest, grazing or cutting treated crops for feed.
3 R	Warrior II w/ Zeon Technology, Lamcap II	lambda-cyhalothrin	0.33 fl oz	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	Apply as a 5 to 7 inch t-band over the open furrow, or in-furrow with the seed.  Incorporation of this product should be close to the intended seed planting depth, and no deeper than 3 inches.