

FIELD CORN INSECTICIDE PERFORMANCE RATING, 2023

	Chemistry	Restricted Entry Interval (hours)	Restricted Use (R)	Chinch Bug	Fall Armyworm	Corn Rootworm	Cutworm	European Corn Borer	Flea Beetle	Grasshopper	Seed Corn Maggot	Southwestern Corn Borer	Green and Southern Green Stink Bug	Brown Stink Bug	Wireworm	Fire Ant
Access/Senator/Concur	NEO	12		8		6	1				8				5	5
Cruiser	NEO	12		8		6	1				8				5	5
Fortenza	DM	12														
Lumivia	DM										8					
Poncho	NEO		X	8		6	3				8				5	5
Ambush	SyP	12	X	7	5		8	6		7		5	7	4		
Asana XL/Adjourn	SyP	12	X	7	5		9	6		7		7	8	5		
Aztec/Defcon	SyP + OP	48	X	8		6	4				8					
Baythroid XL	SyP	12	X	7	5		9	6	6	8		7	8	5		
Besiege	DM + SyP	24	X	7	9		9	9	6	8		9	8	4		
Blackhawk	SP	4		0	7		7	7		1		8				
Counter	OP	48	X	8		6	0		6		8				6	
Bifenthrin/Discipline/Fanfare/Brigade	SyP	12	X	7	5		9	7	6	8		7	9	8		
Elevest	SyP + DM	12	X	7	9		9	9	6	8		9	9	8		
Force/Force EVO	SyP	0	X	6		6	5				5					
Hero	SyP	12	X	7	5		9	7	6	8		7	9	8		
Intrepid/Troubadour/Invertid/Turnstyle	IGR	4					7	8				8				
Intrepid Edge	IGR + SP	4			7		9	9				9				
Lambda Cy/Silencer/Warrior	SyP	24	X	7	5		9	6	6	8		6	8	4		
Lannate	Car	48	X	3	8		5	6		4		7				
Mustang Maxx, Respect	SyP	12	X	7	5		9	6	6	8		7	8	4		
Pounce/Perm-UP	SyP	12	X	7	5		8	6	6	8		6	6			
Prevathon/Vantacor	DM	4			9		9	9				9				
Proaxis/Declare	SyP	24	X	7	4		9	6	6	8		6	8	4		
Sevin/Carbaryl	Car	12	X	8	6		5	6	8	5		7				
Thimet/Phorate	OP	48	X			5	0				1					

Rating Scale: 0 = no control, 10 = excellent

QUICK VIEW THRESHOLD GUIDE

Insect	Threshold	Scouting Procedure
Fall armyworm/Corn earworm	3-6 larvae per whorl	Examine 25-50 plants
Chinch bugs	when stand is threatened and chinch bugs are present.	
European corn borer	50% of plants showing damage with larvae present	
Southwestern corn borer	Pheromone Traps: First generation – 50 per week; Second generation – 100 per week. Field Scouting: 10% of plants showing damage with larvae present	
Stink bugs	10% of plants infested (< 2 feet tall) 5% of plants during early ear formation	Examine 25-50 plants (stink bugs tend to infest field borders first)

When planting into a cover crop, consider using a high seed treatment rate of 500 or above.

FIELD CORN INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/ Gallon	Application/Comments	Minimum Days From Last Application to Harvest	Restricted Entry Interval (REI) Hours
Corn Rootworm	clothianidin Poncho 600	0.25-1.25 mg ai/seed			Seed treatment – commercially available.		12
	cyfluthrin + phostebupirim (R) Aztec or Defcon 2.1 G	6.7 oz/1,000 ft of row	0.12		Apply Aztec/Defcon in 7-inch band or in furrow.	30	48
	imidacloprid Senator/Axcess 5 FS Concur	1.34 mg ai/kernel 1.5 oz/42 lb seed			Seed treatment.		12
	phorate (R) Thimet/Phorate 20 G	6 oz/1,000 ft of row	1		Apply in 7-inch band behind the planter shoe directly in front of the press wheel. DO NOT apply Thimet or Phorate directly in furrow.	30	48
	tefluthrin (R) Force 3 G Force EVO	4-5 oz/1,000 ft of row 0.46-0.57 fl oz/1,000 ft	0.1-0.24		Apply in 7-inch band or in furrow. Apply in 7-inch T-band and incorporate or in furrow.		48
	terbufos (R) Counter 15 G	8 oz/1,000 ft of row	1		Apply in furrow or in 7-inch band behind planter shoe in front of the press wheel.		48
	thiamethoxam Cruiser 5 FS	1.25 mg ai/kernel			Seed treatment.		12
Seed Corn Maggot	Maggot damage can be reduced by early spring plowing that reduces plant residue prior to planting.						
	clothianidin Poncho 600	0.25-0.5 mg ai/kernel			Seed treatment.		12
	cyfluthrin + phostebupirim (R) Aztec or Defcon 2.1 G	6.7 oz/1,000 ft of row	0.12		Apply in 7-inch band or in furrow.	30	48
	imidacloprid Senator/Axcess 5 FS Concur	0.16-0.6 mg/ai kernel 1.8 oz/50 lb seed			Seed treatment.		12
	terbufos (R) Counter 15 G	8 oz/1,000 ft of row	1.0		Apply in furrow or in 7-inch band behind planter shoe in front of the press wheel.		48
	tefluthrin (R) Force 3 G Force EVO	4-5 oz/1,000 ft of row 0.46-0.57 fl oz/1,000 ft	0.1-0.16		Apply in 7-inch band or in furrow. Apply in 7-inch T-band and incorporate in furrow.		48
	thiamethoxam Cruiser 5 FS	0.25-0.8 mg ai/kernel			Seed treatment.		12

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Wireworm, White Grub	terbufos (R) Counter 15 G	8 oz/1,000 ft of row	1.0		Apply in furrow or in 7-inch band behind planter shoe in front of the press wheel.		48
	thiamethoxam Cruiser 5 FS	0.25-0.8 mg ai/kernel			Seed treatment.		12
	clothianidin Poncho 600	0.25-0.5 mg ai/kernel			Seed treatment.		12
	cyantraniliprole Fortenza 5 FS	0.125-0.25 mg ai/kernal			Seed treatment.		12
	imidacloprid (Acess/Senator) 5 FS Concur	0.16-0.72 mg ai/kernel 1.8 oz/50 lb seed			Seed treatment.		12
Cutworm Cutworm pressure is higher when planting into a cover crop. Consider increasing seed treatment rates when planting directly into a cover crop.	beta-cyfluthrin (R) Baythroid XL 1 EC	0.8-1.6 oz	0.007-0.013	80-160		21	12
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61		30	12
	cyantraniliprole Fortenza 5 FS	0.125-0.25 mg ai/kernal			Seed treatment.		12
	cyfluthrin (R) Tombstone 2 EC	0.8-1.6 oz	0.013-0.025	80-160		21	12
	esfenvalerate (R) Asana XL 0.66 EC (See Generic Insecticides)	3.2-9.6 oz	0.016-0.05	13-40	Direct spray to lower portion of plants and to soil around base of plant.	21	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	1.92-3.20 oz 0.77-1.28 oz	0.0075- 0.0125	40-66.7 100-166		21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	0.96-1.6 oz	0.015-0.025	80-133		21	24
	permethrin (R) Ambush 2 EC Pounce 25 WP	6.4-12.8 oz 6.4-9.6 oz	0.1-0.2	10-20		prior to brown silk	12
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC (See Generic Insecticides)	1.28-3.2 oz	0.008-0.02	40-100		30	12

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/ Gallon	Application/Comments	Minimum Days From Last Application to Harvest	Restricted Entry Interval (REI) Hours
Chinch Bug Treat when seedlings are dying to the point of reducing stand below an acceptable level and chinch bugs are found.	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	12
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61		30	12
	carbaryl Sevin 4L	2qt		2	Direct spray to base of plant. Use a minimum of 20 gal final spray volume per acre.	48 (grain) 14 (forage)	12
	esfenvalerate (R) Asana XL 0.66 EC (See Generic Insecticides)	5.8-9.6 oz	0.03-0.05	13-22		21	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	3.84 oz 1.54 oz	0.015	33 83		21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.92 oz	0.03	66.7		21	24
	terbufos (R) Counter 15 G	8 oz/1,000 ft of row	Do not exceed 1.3 lb		DO NOT use more than 8.7 lb of Counter per acre. Counter only controls early season, light to moderate populations of chinch bugs.		48
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30	12
Green and Southern Green Stink Bug Treat when 10% of plants are infested and plants are less than 2 ft tall. During early ear formation, treat when 5% of plants are infested. Consider using a higher seed treatment rate when planting into a cover crop to reduce potential stink bug damage.	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	12
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61		30	12
	gamma-cyhalothrin (R) Declare 1.25 CS Proaxis 0.5 CS	1.02-1.54 oz 2.56-3.84 oz	0.01-0.015	83-125.5 33-50		21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.28-1.92 oz	0.02-0.03	66.7-100		21	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC (See Generic Insecticides)	2.7-4.0 oz	0.017-0.025	32-47		30	12

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Brown Stink Bug Treat when 10% of plants are infested and plants are less than 2 ft tall. During early ear formation, treat when 5% of plants are infested. Consider using a higher seed treatment rate when planting into a cover crop to reduce potential stink bug damage.	bifenthrin (R) Brigade 2 EC <i>(See Generic Insecticides)</i>	2.1-6.4 oz	0.033-0.1	20-61		30	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.25 EC	4-10.3 oz	0.04-0.1	12.4-32		30	12
Fall Armyworm Apply insecticide when 3-6 larvae are found per whorl. Use a high volume of water (15-20 gpa).	bifenthrin + chlorantraniliprole (R) Elevest 2.22 SC	5.6-9.6 oz	0.098-0.167	13.3-23	DO NOT apply at intervals closer than 7 days apart.	30	12
	carbaryl Sevin XLR	2 qt	2	2		48 (grain) 14 (forage)	12
	chlorantraniliprole Prevathon 0.43 SC Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.1 107-51	DO NOT apply at intervals closer than 7 days apart.	14	4
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege	6-10 oz	0.06-0.097	12.8-21		21	24
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.7		21 (ears and fodder) 3 (forage)	48
	spinosad Blackhawk	1.67-3.3 oz	0.038-0.075		DO NOT apply more than 8.3 oz of Blackhawk per year.	28 (grain) 7 (forage)	4

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Flea Beetle Spray young plants when beetles become abundant. Treat only if infestation is heavy.	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	12
	bifenthrin (R) Brigade 2 EC <i>(See Generic Insecticides)</i>	2.1-6.4 oz	0.033-0.1	20-61		30	12
	carbaryl Sevin XLR	1-2 qt	1-2	2-4		48 (grain) 14 (forage)	12
	terbufos (R) Counter 20 G	6 oz/1,000 ft of row					48
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	2.72-4.0 oz	0.017-0.025	32-47		30	12
Grasshopper	bifenthrin (R) Brigade 2 EC <i>(See Generic Insecticides)</i>	2.1-6.4 oz	0.033-0.1	20-61		30	12
	bifenthrin + chlorantraniliprole (R) Elevest 2.22 SC	4.8-9.6 oz	0.084-0.167	13.3-26.7	DO NOT apply at intervals closer than 7 days apart.	30	12
	chlorantraniliprole Prevathon 0.43 SC Vantacor 5 SC	8-20 oz 0.7-1.7oz	0.027-0.067	6.4-16 183-75	DO NOT apply at intervals closer than 7 days apart.	14	4
	esfenvalerate (R) Asana XL 0.66 EC <i>(See Generic Insecticides)</i>	5.8-9.6 oz	0.03-0.05	13-22		21	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33-50 83-125.5		21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 oz	0.02-0.03	66.7-100		21	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege	6-10 oz	0.06-0.098	12.8-21.3		21	12
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	2.72-4.0 oz	0.017-0.025	32-47		30	12

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/ Gallon	Application/Comments	Minimum Days From Last Application to Harvest	Restricted Entry Interval (REI) Hours
European Corn Borer	<i>Bt</i> corn hybrids				Field corn expressing the <i>Bt</i> toxin has proven to be very effective.		
Early planting will help avoid problems with this insect. Treat in late whorl stage when 50% of plants have feeding damage (shotholes) with larvae present.	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	12
	bifenthrin (R) Brigade 2 EC <i>(See Generic Insecticides)</i>	2.1-6.4 oz	0.033-0.1	20-61		30	12
	bifenthrin + chlorantraniliprole (R) Elevest 2.22 SC	5.8-9.6 oz	0.098-0.163	13.3-23	DO NOT apply at intervals closer than 7 days apart.	30	12
	chlorantraniliprole Prevathon 0.43 SC Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.1 107-51	DO NOT apply at intervals closer than 7 days apart.	14	4
	esfenvalerate (R) Asana XL 0.66 EC <i>(See Generic Insecticides)</i>	7.8-9.6 oz	0.04-0.05	13-16		21	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33-50 83-125.5	Use of insecticides applied to foliage for management of second-generation corn borers in early July has reduced stalk tunneling and lodging. However, yield increases have not been common with early-planted field corn.	21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 oz	0.02-0.03	66.7-100		21	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege	6-10 oz	0.06-0.098	12.8-21.3		21	24
	methoxyfenozide Intrepid 2 F <i>(See Generic Insecticides)</i>	4.0-16 oz	0.06-0.12	8-32		21	4
	methoxyfenozide + spinetoram Intrepid Edge	4-12 oz	0.09-0.28	10.7-32		28	4
	permethrin (R) Ambush 2 EC Pounce 25 WP Pounce 1.5 G	6.4-12.8 oz 6.4-9.6 oz 6.7-13.3 lb	0.1-0.2	10-20	Apply Ambush or Pounce prior to ear formation. Granules are best for first-generation larvae. Use foliar sprays on second-generation larvae. Apply granules by aircraft or by ground equipment directing granules into whorls.	prior to brown silk	12
	spinosad Blackhawk	1.67-3.3 oz	0.038-0.075		DO NOT apply more than 8.3 oz of Blackhawk per year.	28 (grain) 7 (forage)	4
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	2.72-4.0 oz	0.017-0.025	32-47		30	12
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30	12

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Southwestern Corn Borer Apply when 10% of plants show shothole feeding in whorl with larvae present. If using pheromone traps, make treatment at the following levels: 1st generation borers – 50 moths per week, 2nd generation borers – 100 moths per week. Plant early to avoid damage. Treatment is not necessary after plants reach R4 growth stage.	<i>Bt</i> corn hybrids				Field corn expressing the <i>Bt</i> toxin has proven to be very effective.		
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	12
	bifenthrin (R) Brigade 2 EC (See Generic Insecticides)	2.1-6.4 oz	0.033-0.1	20-61		30	12
	bifenthrin + chlorantraniliprole (R) Elevest 2.22 SC	5.8-9.6 oz	0.098-0.163	13.3-23	DO NOT apply at intervals closer than 7 days apart.	30	12
	carbaryl Sevin XLR	2 qt	2	2	Apply high-volume coarse spray so that spray will run into whorls.	48 (grain) 14 (forage)	12
	chlorantraniliprole Prevathon 0.43 SC Vantacor 5 SC	14-20 oz 1.2-2.5 oz	0.047-0.067	6.4-9.1 107-51	Do not apply at intervals closer than 7 days apart.	14	4
	esfenvalerate (R) Asana XL 0.66 EC (See Generic Insecticides)	5.8-9.6 oz	0.03-0.05	13-22		21	12
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33-50 83-125.5		21	24
	lambda-cyhalothrin (R) Warrior II 2.08 CS (See Generic Insecticides)	1.28-1.92 oz	0.02-0.03	66.7-100		21	24
	lambda-cyhalothrin + chlorantraniliprole (R) Besiege	6-10 oz	0.06-0.098	12.8-21.3		21	24
	methoxyfenozide Intrepid 2 F	4-16 oz	0.06-0.012	8-32		21	4
	methoxyfenozide + spinetoram Intrepid Edge	4-12 oz	0.09-0.28	10.7-32		28	4
	permethrin (R) Ambush 2 EC Pounce 25 WP Pounce 1.5 G	6.4-12.8 oz 6.4-9.6 oz 6.7-13.3 lb	0.1-0.2	10-20	Apply Ambush or Pounce prior to ear formation. Apply granules for first-generation larvae by aircraft or by ground equipment directing granules into whorls. Sprays should be used for second-generation larvae.	prior to brown silk	12
	spinosad Blackhawk	2.2-3.3 oz	0.05-0.075		DO NOT apply more than 8.3 oz of Blackhawk per year.	28 (grain) 7 (forage)	4
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC (See Generic Insecticides)	2.7-4.0 oz	0.017-0.025	32-47		30	12
zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30	12	