

**FIELD CORN INSECTICIDE PERFORMANCE RATING, 2010**

	Restricted Use (R)	Chinch Bug	Corn Earworm, Fall Armyworm	Corn Rootworm	Cutworm	European Corn Borer	Flea Beetle	Grasshopper	Seed Corn Maggot	Southwestern Corn Borer	Wireworm	Fire Ant
Ambush	X	7	7		8	6		7		5		
Asana XL/Adjourn	X	7	8		8	6		7		6		
Aztec/Defcon	X	6		6	4				8			
Baythroid XL	X	7	8		8	6	6	8		6		
Belt			8			8				7		
Cobalt	X	7	8		8	7	6	8		7		
Counter	X	6		6	0		6		8		6	
Cruiser		3		6					8		5	5
Discipline/Fanfare/Brigade	X	7	8		8	7	6	8		7		
Force	X	3		6	4				5			
Hero	X	7	8			7	6	8		7		
Intrepid						7				7		
Lannate	X	3	7		5	1		4		1		
Lorsban/Chlorpyrifos/Nufos	X	7	4	6	7	5		6	8	5		9
Malathion		1	2		0	1		5		1		
Methyl Parathion/Penncap-M	X	4	4		3	1	7	6		1		
Mustang Max/Respect	X	7	8		8	6	6	8		6		
Poncho	X	3		6					8		5	5
Pounce	X	7	7		8	6	6	8		6		
Proaxis/Declare	X	7	8		8	6	6	8		6		
Regent	X	5	0	6		4			4	4		
Sevin	X	3	4		5	2	8	5		2		
Thimet	X			5	0				1			
Tracer		0	7		7	5		1		5		
Karate/Silencer	X	7	8		8	6	6	8		6		

**Rating Scale:** 0 = no control, 10 = excellent

The performance ratings in the chart are for comparison purposes only and are not necessarily a measure of percent control. Shaded boxes indicate products recommended for specific pests in this guide.

**QUICK-VIEW THRESHOLD GUIDE**

Insect	Threshold	Scouting Procedure
Whorl feeders	3-6 larvae per whorl	Examine 25-50 plants
Chinch bugs	when stand is threatened	
European corn borer	50% of plants showing damage	Examine 25-50 plants
Southwestern corn borer	25% of plants showing damage	Examine 25-50 plants

**FIELD CORN INSECT CONTROL**

<b>Insect</b>	<b>Insecticide</b>	<b>Formulations/Acre</b>	<b>Lb ai/Acre</b>	<b>Acres/Gallon</b>	<b>Application/Comments</b>	<b>Minimum Days From Last Application to Harvest</b>	
<b>Whorl Feeders</b> (Corn Earworms or Fall Armyworms)	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61	Apply insecticides when 3-6 larvae are found per whorl. Use insecticide as a coarse spray in 15 gallons or more spray per acre applied directly into whorls.	30	
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21	
	carbaryl Sevin 80 S Sevin 50 WP Sevin XLR	2 1/2 lb 4 lb 2 qt	2.0	2		48 Grain 14 Forage	
	cyfluthrin (R) Tombstone 2 EC	1.6-2.8 oz	0.025-0.044	45.7-80		21	
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	5.8-9.6 oz	0.03-0.05	13-22		21	
	flubendiamide (R) Belt 4 SC	2.0-3.0 oz	0.063-0.094	42.7-64		Do not apply Belt more than 4 times per season.	28 Grain 1 Forage
	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33-50 83-125.5		21	
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	66.7-100 33.3-50		21	
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-11		21 Ears and Fodder 3 Forage	
	permethrin (R) Ambush 2 EC Pounce 3.2 EC	6.4-12.8 oz 4-8 oz	0.1-0.2	10-20 16-32		Prior to brown silk	
	spinosad Tracer 4 SC	2-3 oz	0.062-0.094	43-64		Do not apply more than 6 oz of Tracer per year.	28 Grain 3 Forage
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	3.2-4.0 oz	0.02-0.025	32-40		30	
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4.0-10.3 oz	0.04-0.1	12.4-32		30	
	<b>Cutworms</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	0.8-1.6 oz	0.007-0.013		80-160	21
		bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1		20-61	30

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<b>Cutworms</b>	chlorpyrifos (R) (Lorsban, Nufos, Warhawk, Whirlwind) 4 E Lorsban 15 G	1-2 pt 8 oz/1000 ft of row	0.5-1.0	4-8	Apply at planting in a 6- to 7-inch band. Direct sprays to base of plant. On 6-inch or smaller plants, band sprays over top.	21	
	chlorpyrifos + gamma-cyhalothrin (R) Cobalt	13-26 oz	0.26-0.52	4.9-9.8		21	
	cyfluthrin (R) Tombstone 2 EC	0.3-1.6 oz	0.013-0.025	80-160		21	
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	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	
	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	1.92-3.20 oz 0.77-1.28 oz	0.0075-0.0125	40-66.7 100-166		21	
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		21	
	permethrin (R) Ambush 2 EC Pounce 3.2 EC	6.4-12.8 oz 4-8 oz	0.1-0.2	10-20 16-32		Prior to brown silk	
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	1.28-3.2 oz	0.008-0.02	40-100		30	
	<b>Corn Rootworm</b>	chlorpyrifos (R) Lorsban 15 G	8 oz/1000 ft of row	1.0		Apply in 7-inch band or in furrow.	21
		clothianidin Poncho 250	0.25-0.5 mg ai/seed			Seed treatment – commercially available.	
cyfluthrin + phostebupirim (R) Aztec or Defcon 2.1 G		6.7 oz/1000 ft of row	0.12		Apply Aztec/Defcon in 7-inch band or in furrow.	30	
fipronil (R) Regent 4 SC		0.24 oz/1000 ft of row			Apply in furrow. Do not plant other rotational crops within 1 year of application.	90	
phorate (R) Thimet 20 G		6 oz/1000 ft of row	1.0		Apply in 7-inch band behind the planter shoe directly in front of the press wheel. Do not apply Thimet directly in furrow.	30	
tefluthrin (R) Force 3 G		4-5 oz/1000 ft of row	0.1-0.16		Apply in 7-inch band or in furrow.		
terbufos (R) Counter 15 G		8 oz/1000 ft of row	1.0		Apply in furrow or in 7-inch band behind planter shoe in front of the press wheel.		
thiamethoxam Cruiser 5 FS		1.25 mg ai/kernel			Seed treatment.		

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<b>Chinch Bugs</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21
	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61	Treat when seedlings are dying to the point of reducing stand below an acceptable level and chinch bugs are found.	30
	carbaryl Sevin 80 S Sevin 50 WP	2 1/2 lb 4 lb	2		Direct sprays to base of plant. Use a minimum of 20 gallons final spray volume per acre.	48
	chlorpyrifos 4 EC (R) (Lorsban, Chlorpyrifos, Nufos Whirlwind, Warhawk)	1-2 pt	0.5-1.0	4-8		21
	chlorpyrifos + gamma-cyhalothrin (R) Cobalt	19-38 oz	0.38-0.76	3.4-6.7		21
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	5.8-9.6 oz	0.03-0.05	13-22		21
	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	3.84 oz 1.54 oz	0.015	33 83		21
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	66.7-100 33-50		21
	terbufos (R) Counter 15 G	8 oz/1000 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.	
zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30	
<b>Flea Beetles</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21
	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61		30
	carbaryl Sevin 80 S Sevin 50 WP Sevin XLR	1 1/4-2 1/2 lb 2-4 lb 1-2 qt	1.0-2.0	2-4	Spray young plants when beetles become abundant. Treat only if infestation is heavy.	48

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<b>Flea Beetles</b>	methyl parathion (R) PennCap-M	2-3 pt	0.5-0.75	2.7-4.0		12	
	terbufos (R) Counter 15 G	6-8 oz/1000 ft of row	Do not exceed 1.3 lb		Do not use more than 8.7 lb of Counter per acre per season.		
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	2.72-4.0 oz	0.017-0.025	32-47		30	
<b>Grasshoppers</b>	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61		30	
	carbaryl Sevin 80 S Sevin 50 WP Sevin XLR	1 1/4 lb 2 lb 1 qt	1.0	4	Apply when numbers are causing damage.	48	
	chlorpyrifos + gamma-cyhalothrin (R) Cobalt	7-13 oz	0.14-0.26	9.8-18.3		21	
	chlorpyrifos 4 EC (R) (Lorsban, Chlorpyrifos, Nufos, Whirlwind, Warhawk)	1 pt	0.5	8		21	
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	5.8-9.6 oz	0.03-0.05	13-22		21	
	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33-50 83-125.5		21	
	lambda-cyhalothrin (R) Karate Z 2.08CS Silencer 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	66.7-100 33-50		21	
	methyl parathion (R) PennCap-M 2 EC Methyl Parathion 4 EC	2 pt 1 pt	0.5	4 8		12	
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	2.72-4.0 oz	0.017-0.025	32-47		30	
	<b>Seed Corn Maggot</b>	fipronil (R) Regent 4 SC	0.17 oz/1000 ft of row			Maggot damage can be reduced by early spring plowing that reduces plant residue prior to planting.	90
		chlorpyrifos (R) Lorsban 15 G	8 oz/1000 ft of row	1.0		Apply directly behind planter shoe into the seed furrow.	21

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<b>Seed Corn Maggot</b> (cont.)	cyfluthrin + phostebupirim (R) Aztec, Defcon 2.1 G	6.7 oz/1000 ft of row	0.12		Apply in 7-inch band or in furrow at planting.	
	terbufos (R) Counter 15 G	8 oz/1000 ft of row	1.0		Apply in furrow in front of the press wheel.	
	tefluthrin (R) Force 3 G	4-5 oz/1000 ft of row	0.1-0.16		Apply in 7-inch band or in furrow at planting.	30
	diazinon (R) Agrox Premiere 15%	1.8 oz/50 lb seed			Hopper box treatment. Mix thoroughly with seed. DO NOT MIX WITH BARE HANDS.	
	clothianidin Poncho 250	0.25-0.5 mg ai/kernel			Seed treatment – commercially available.	
	thiamethoxam Cruiser 5 FS	0.25-0.8 mg ai/kernel			Seed treatment.	
<b>European Corn Borer</b>	<i>Bt</i> corn varieties				<b>Field corn expressing the Bt toxin has proven to be very effective.</b>	
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21
	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61	Early planting will help avoid problems with this insect. Treat in late whorl stage when 50% of plants have feeding damage (shotholes).	30
	chlorpyrifos + gamma-cyhalothrin (R) Cobalt	19-38 oz	0.38-0.76	3.4-6.7		21
	chlorpyrifos 4 EC (R) (Lorsban, Chlorpyrifos, Nufos, Whirlwind, Warhawk)	1-2 pt	0.5-1.0	4-8		21
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	7.8-9.6 oz	0.04-0.05	13-16		21
	fipronil (R) Regent 4 SC	0.24 oz/1000 ft of row			Apply in furrow at planting. Do not plant other rotational crops within 1 year of application. Suppression of first generation borers only.	90
	flubendiamide Belt 4 SC	2.0-3.0 oz	0.063-0.094	42.7-64	Do not apply Belt more than 4 times per season.	28 Grain 1 Forage
	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	2.56-3.84 oz 1.02-1.84 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
	lambda-cyhalothrin (R) Karate Z 2.08CS Silencer 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	66.7-100 33-50		21

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<b>European Corn Borer</b>	methoxyfenozide Intrepid 2 F	4.0-8.0 oz	0.06-0.12	16-32		21
	permethrin (R) Ambush 2 EC Pounce 3.2 EC Pounce 1.5 G	6.4-12.8 oz 4-8 oz 6.7-13.3 lb	0.1-0.2	10-20 16-32	Apply Ambush and 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
	spinosad Tracer 4 SC	1-3 oz	0.031-0.094	43-128	Do not apply more than 6 oz of Tracer per acre/year.	28 (Grain) 3 (Forage)
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	2.72-4.0 oz	0.017-0.025	32-47		30
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30
<b>Southwestern Corn Borer</b>	<i>Bt</i> corn varieties				<b>Field corn expressing the Bt toxin has been very effective.</b>	
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		21
	bifenthrin 2 EC (R) (Brigade, Discipline, Fanfare, Sniper)	2.1-6.4 oz	0.033-0.1	20-61		30
	carbaryl Sevin 80 S Sevin 50 W Sevin XLR	3 3/4 lb 6 lb 3 qt	3.0	1.33	Apply when 25% of plants show shothole feeding in whorl. Plant corn early to avoid damage. Apply high-volume coarse spray so that spray will run into whorls.	48
	chlorpyrifos + gamma-cyhalothrin (R) Cobalt	19-38 oz	0.38-0.76	3.4-6.7		21
	esfenvalerate 0.66 EC (R) (Asana XL, Adjourn)	5.8-9.6 oz	0.03-0.05	13.3-22		21
	fipronil (R) Regent 4 SC	0.24 oz/1000 ft of row			Apply in furrow at planting. Do not plant other rotational crops within 1 year of application. Suppression of first generation borers only.	90
	flubendiamide Belt 4 SC	2.0-3.0 oz	0.063-0.094	42.7-64	Do not apply Belt more than 4 times per season.	28 Grain 1 Forage

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<b>Insect</b>	<b>Insecticide</b>	<b>Formulations/Acre</b>	<b>Lb ai/Acre</b>	<b>Acres/Gallon</b>	<b>Application/Comments</b>	<b>Minimum Days from Last Application to Harvest</b>		
<b>Southwestern Corn Borer</b> (cont.)	gamma-cyhalothrin (R) Proaxis 0.5 EC Declare 1.25 EC	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 consistent with early-planted field corn.  Apply Ambush and 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.	21		
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	66.7-100 33-50		21		
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.012	16-32		21		
	permethrin (R) Ambush 2 EC Pounce 3.2 EC Pounce 1.5 G	6.4-12.8 oz 4-8 oz 6.7-13.3 lb	0.1-0.2	10-20 16-32		Prior to brown silk		
	zeta-cypermethrin 0.8 EC (R) (Mustang Max, Respect)	2.7-4.0 oz	0.017-0.025	32-47		30		
	zeta-cypermethrin + bifenthrin (R) Hero 1.24 EC	4-10.3 oz	0.04-0.1	12.4-32		30		
	<b>Wireworms</b>	terbufos (R) Counter 15 G	8 oz/1000 ft of row	1.0			Apply in a 7-inch band and incorporate lightly or place in seed furrow. Tends to be a problem on sandy soils. Seed treatment.  Seed treatment – commercially available.	
		thiamethoxam Cruiser 5 FS	0.25-0.8 mg ai/kernel					
clothianidin Poncho 250		0.25-0.5 mg ai/kernel						
<b>Fire Ants</b>	chlorpyrifos (R) Lorsban 15 G	8 oz/1000 ft of row			Apply in a "T" band application for best results.	21		