

Crops - Commercial

Corn					
Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold When to Treat
Chinch bugs	At planting¹				Preventive treatment. Apply at planting. Rates are based on 1,000 feet of row.
	terbufos Counter (15)G ²	6.0-8.0 ounce per 1,000 row feet	1.0		
	chlorpyrifos Lorsban (15)G ²	8.0 ounce per 1,000 row feet	1.0		
	Seed treatments See Table 1.				
	Post-emergence				Seedling corn less than 6 inches tall: five or more bugs on 20% or more plants. Larger plants require a judgment decision based on bug counts, crop vigor and weather conditions.
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 ounce	0.013-0.02	80-45.7	
	chlorpyrifos ³ Lorsban (4)	16-32 ounce	0.5-1.0	8-4	
	lambda-cyhalothrin Karate Z (2.08)	1.92 ounce	0.03	66.7	
	bifenthrin Brigade (2)	2.1-6.4 ounce	0.033-0.1	61-20	
	z-cypermethrin Mustang Max (0.8)	3.2-4.0 ounce	0.02-0.025	40-32	
cyfluthrin Tombstone (2)	1.6-2.8 ounce	0.025-0.044	80-45.7		
Corn earworm (whorls only)	chlorantranilipole, lambda-cyhalothrin Besiege	5.0-10.0 ounce	premix	25.6-12.8	Chemical treatment for worms in the whorl is not recommended, except in extreme situations.
	chlorantraniliprole Prevathon (0.43)	14.0-20.0 ounce	0.047-0.067	9.1-6.4	
	Bt corn hybrids See Table 2.				Transgenic Bt plant varieties recommended for your area and comply with labeled refuge requirements.
Cucumber beetles and grape colaspis	esfenvalerate Asana XL (0.66)	5.8-9.6 ounce	0.03-0.05	22-13	At silking, treat when five or more bugs are found per ear.
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 ounce	0.013-0.022	80-45.7	
	bifenthrin Brigade (2)	2.1-6.4 ounce	0.033-0.10	61-20	
	cyfluthrin Tombstone (2)	1.6-2.8 ounce	0.025-0.044	80-45.7	
	lambda-cyhalothrin Karate Z (2.08)	1.28-1.92 ounce	0.02-0.03	100-66.7	
	z-cypermethrin Mustang Max (0.8)	2.72-4.0 ounce	0.017-0.025	47-32	
Cutworms	At planting¹				Preventive treatment. Apply at planting. Rates are based on 1,000 feet of row.
	chlorpyrifos Lorsban (15)G ²	8.0 ounce per 1,000 row feet	1.0		

Crops - Commercial

Corn					
Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold When to Treat
	tefluthrin Force (3)G	3.0-4.0 ounce per 1,000 row feet	0.1		
	bifenthrin Capture LFR (1.5)	0.2-0.39 ounce per 1,000 row feet	0.04-0.08		
	lambda-cyhalothrin Ballista LFC (2.5)	0.66 ounce per 1,000 row feet	0.005		
	chlorethoxyfos, bifenthrin SmartChoice (5)G	4.5-5.0 ounce per 1,000 row feet	0.2-0.25		
Cutworms continued	At planting bands or postemergence¹				Treat when seedling plants show 6% to 8% damage from above-ground cutting or 2% to 4% from below-ground boring. Transgenic Bt plant varieties recommended for your area and comply with labeled refuge requirements.
	lambda- cyhalothrin Karate Z (2.08)	0.96-1.60 ounce	0.015-0.025	133.3-80	
	chlorpyrifos ³ Lorsban (4)	16.0-32.0 ounce	0.5-1.0	8-4	
	z-cypermethrin Mustang Max (0.8)	1.28-2.8 ounce	0.008-0.0175	100-45.7	
	bifenthrin Brigade (2)	2.1-6.4 ounce	0.033-1.0	61-20	
	esfenvalerate Asana XL (0.66)	5.8-9.6 ounce	0.03-0.05	22-13	
	beta-cyfluthrin Baythroid XL (1)	0.8-1.6 ounce	0.007-0.013	160-80	
	cyfluthrin Tombstone(2)	0.8-1.6 ounce	0.013-0.025	160-80	
	bifenthrin Capture LFR (1.5)	3.4-6.8 ounce	0.04-0.08	37.6-18.8	
	Bt corn hybrids: See Table 2.				
Fall armyworm (whorls only)	chlorantranilipole, lambda-cyhalothrin Besiege	6.0-10.0 ounce	premix	21.3-12.8	Chemical treatment for worms in the whorl is rarely needed, except in extreme situations. Treatment for worms in the ear is not recommended. Transgenic Bt plant varieties recommended for your area and comply with labeled refuge requirements.
	chlorantranilipole Prevathon (0.43)	14.0-20.0 ounce	0.047-0.067	9.1-6.4	
	Bt corn hybrids: See Table 2.				
Rootworms	<i>At planting¹</i> . For seed treatments see Table 1.				Preventive treatment. Apply at planting. Rates are based on 1,000 row feet.
	bifenthrin Brigade (2)	0.30 ounce per 1,000 row feet	0.06-0.08		
	terbufos Counter (15)G ²	6.0-8.0 ounce per 1,000 row feet	1.0		

Crops - Commercial

Corn					
Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold When to Treat
	chlorpyrifos Lorsban (15)G ²	8.0 ounce per 1,000 row feet	1.0		
	tefluthrin Force (3)G	4.0-5.0 ounce per 1,000 row feet	0.1		
	tebupirimphos, cyfluthrin Aztec (2.1)G	6.7 ounce per 1,000 row feet	0.11		
	lambda-cyhalothrin Ballista LFC (2.5)	0.66 ounce per 1,000 row feet	0.005		
	chlorethoxyfos, bifenthrin SmartChoice (5)G	4.5-5.0 ounce per 1,000 row feet	0.2-0.25		
Spider mites	etoxazole Zeal (72)	1.0-3.0 ounce	0.045-0.135	16-5.3	Make applications when spider mite populations are rapidly growing to prevent damage to leaves at ear height or higher.
	fenpyroximate Portal (0.4)	24.0-32.0 ounce	0.075-0.01	5.3-4	
	propargite Comite II (6)	36-54 ounce	1.69-2.53	3.5-2.4	
	spiromesifen Oberon (4)	2.85-8.0 ounce	0.09-0.25	44.9-16	
	hexythiazox Onager (1)	10.0-24.0 ounce	0.078-0.187	12.8-5.3	
Stalk borers	z-cypermethrin Mustang Max (0.8)	2.72-4.0 ounce	0.017-0.025	47-32	Before tassel stage, treat for 5% infested plants. At and after tassel stage, treat for 10% infested plants.
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 ounce	0.012-0.022	80-45.7	
	esfenvalerate Asana XL (0.66)	5.8-9.6 ounce	0.03-0.05	22-13	
	cyfluthrin Tombstone (2)	1.6-2.8 ounce	0.025-0.044	80-45.7	Transgenic Bt plant varieties recommended for your area and comply with labeled refuge requirements.
	lambda-cyhalothrin Karate Z (2.08)	1.28-1.92 ounce	0.02-0.03	100-66.7	
	methoxyfenozide Intrepid (2)	4-16 ounce	0.06-0.25	32-8	
	bifenthrin Brigade (2)	2.1-6.4 ounce	0.033-0.10	61-20	
	chlorantranilipole, λ-cyhalothrin Besiege	6.0-10.0 ounce	premix	21.3-12.8	
	chlorantraniliprole Prevathon (0.43)	14.0-20.0 ounce	0.047-0.067	9.1-6.4	
	Bt corn hybrids: See Table 2.				

Crops - Commercial

Corn					
Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold When to Treat
Stink bugs	beta-cyfluthrin Baythroid XL ⁴ (1)	1.6-2.8 ounce	0.012-0.022	80-45.7	Treat if 5% of plants have bugs at or prior to ear shoot appearance. Early season plants up to V5, treat when 10% of plants are infested.
	z-cypermethrin ⁴ Mustang Max (0.8)	2.72-4.0 ounce	0.017-0.025	47-32	
	bifenthrin Brigade (2)	2.1-6.4 ounce	0.033-0.1	61-20	
	cyfluthrin ⁴ Tombstone (2)	1.6-2.8 ounce	0.025-0.044	80-45.7	
	lambda-cyhalothrin ⁴ Karate Z (2.08)	1.28-1.92 ounce	0.02-0.03	100-66.7	
Sugarcane beetle	At planting¹ For seed treatments see Table 1.				Preventive treatments. Rates are based on 1,000 row feet. Poncho 250, 500 and Cruiser 250, 500 and 1250 benefit from the addition of an in-furrow insecticide. <ul style="list-style-type: none"> • Counter 15G² • Force 3G • Aztec 2.1G • SmartChoice 5G³ • Bifenthrin (2) • Ballista LFC (2.5) • Capture LFR (1.5)
	bifenthrin Brigade (2)	0.30 ounce per 1,000 row feet	0.06-0.08		

¹ Refer to the label for application instructions/restrictions on application method (i.e., in-furrow, surface band, T-band, etc.)

² Serious crop injury may occur if an ALS inhibiting herbicide is applied to corn previously treated at planting with Counter 15G, Lorsban 15G or other systemic organophosphate soil insecticide. Read the ALS herbicide label carefully for exact restrictions and precautions.

³ Crop injury may occur if an ALS-inhibiting herbicide is applied too soon either before or after the application of a foliar organophosphate insecticide. Read the ALS herbicide label carefully for exact restrictions and precautions.

⁴ Karate/ Warrior T and Declare will not give effective control of brown stink bugs. Mustang Maxx, Cyfluthrin and Baythroid XL will give satisfactory brown stink bug control only at the highest recommended rates.

Corn
Insecticide Precautions and Limitations (Refer to insecticide label for complete information.)
Asana XL: Toxic to fish. Do not apply directly to water. Maximum active ingredient per acre per season: 0.25 pound. Preharvest interval: 21 days. REI: 12 hours.
Aztec: Toxic to fish and wildlife. Do not apply directly to water or areas where surface water is present. Maximum active ingredient per acre per season: 0.15 pound. REI: 48 hours (0 hours if the product is soil-injected or soil-incorporated and contact with anything treated is prevented).
Baythroid: Toxic to fish and aquatic invertebrates. Maximum active ingredient per acre per season: 0.088 pound. Preharvest interval: 21 days. REI: 12 hours.
Bifenthrin: Same as Brigade.
Brigade: Do not apply within 30 days of harvest. Do not graze or cut for feed within 30 days of last application. Toxic to bees, fish and aquatic invertebrates. Maximum active ingredient per acre per season: 0.3 pound. REI: 24 hours.
Counter: Toxic to birds, fish and other wildlife. Keep out of any body of water. REI: 48 hours.
Cruiser: Toxic to wildlife and aquatic invertebrates. Do not apply directly to water and do not allow drift or runoff. REI: 12 hours.
Cyfluthrin: Same as Baythroid, but Maximum active ingredient per acre per season: 0.175 pound.

Crops - Commercial

Corn
Insecticide Precautions and Limitations (Refer to insecticide label for complete information.)
Declare: Same as Karate, but do not apply more than 0.06 pound active ingredient per acre per season.
Dimethoate: Toxic to wildlife and aquatic organisms. Do not apply after heading. Avoid runoff when spraying. REI: 48 hours.
Force: Highly toxic to fish and other aquatic organisms. Do not apply directly to water or wetlands or within 20 yards of water. Rotate only to corn or soybeans. REI: 0 hours.
Gauche 600: Highly toxic to birds and aquatic invertebrates. Do not graze or feed livestock on treated seed areas for 45 days after planting. REI: 12 hours.
Intrepid: Drift and runoff may be toxic to sensitive aquatic vertebrates. Do not apply by air within 150 feet or by ground within 25 feet of surface water. Do not apply within 21 days of harvest. REI: 4 hours.
Karate Z: Toxic to fish, aquatic organisms and bees. Do not graze livestock on treated areas or harvest for livestock feed. Maximum active ingredient per acre per season: 0.12 pound. Preharvest interval: 21 days. REI: 24 hours.
Lannate: Toxic to fish, birds, bees, other wildlife. Keep out of any body of water. Do not graze or feed to livestock within 14 days of last application. Do not harvest for grain within 14 days of last application. Maximum active ingredient per acre per season: 0.9 pound. REI: 48 hours.
Lorsban: Toxic to bees, birds, fish and other wildlife. Maximum active ingredient per acre per season: 3 pounds. Preharvest interval is 21 days. Preharvest interval for grazing and silage is 21 days. REI: 12 hours for 15G; 24 hours for 4E.
Mustang Maxx: Toxic to bees, fish and aquatic vertebrates. Maximum active ingredient per acre per season: 0.10 pound. Preharvest interval: 30 days. REI: 12 hours.
Poncho: Do not use treated seed for feed, food or oil. Refer to label for replant restrictions following treated seed planting. Treated seed exposed on soil surface may be hazardous to wildlife.
Respect: Toxic to bees, fish and aquatic vertebrates. Maximum active ingredient per acre per season: 0.10 pound. Preharvest interval: 30 days. REI: 12 hours.
Tracer: Toxic to bees. Do not apply to water. Do not apply more than 14.4 ounces per acre per year. Preharvest treatment for grain or fodder: 7 days; for forage: 14 days. REI: 4 hours.
Warrior T: Same general restrictions as Karate. Do not apply more than 0.12 pound active ingredient per acre per season. Preharvest interval is 21 days.
Abbreviations: REI: Re-entry interval. AI: Active ingredient.