Grain Sorghum

Table 1. Chinch bugs

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
imidacloprid Gaucho (600FS)	8 fluid ounces per hundredweight seed	See label.	See label.	**Seed Treatments** • Preventive. Rates are based on 1,000 row feet.
thiamethoxam Cruiser (5FS)	5.1 fluid ounces per hundredweight seed	See label.	See label.	
clothianidin Nipsit Inside (5FS)	5.1-6.4 fluid ounces per hundredweight seed	See label.	See label.	
cyfluthrin Tombstone (2EC)	2.0-2.8 ounces	0.038-0.044	64-45.7	**Foliar sprays** • Treat when 2 or more adults are found on 20% seedling plants. • For larger plants, a judgment decision based on bug counts, crop vigor, and growing conditions will determine the need for treatment.
gamma-cyhalothrin Declare (1.25CS)	1.54 ounces	0.015	83.1	
z-cypermethrin Mustang Maxx (0.8EC)	3.2-4.0 ounces	0.02-0.025	40-32	
lambda-cyhalothrin Warrior II (2.08CS)	1.92 ounces	0.03	66.7	
beta-cyfluthrin Baythroid XL (1EC)	2.0-2.8 ounces	0.02	64-45.7	
a-cypermethrin Fastac (0.83EC)	3.2-3.9 ounces	0.02-0.025	40-32.8	

Table 2. Corn earworm, fall armyworm (whorl feeders)

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
spinosad Blackhawk (0.36WG)	1.7-3.3 ounces	0.038-0.075	9.4-4.8	• Treatment in the whorl stage is rarely needed. • Treat seed heads for 1 or more worms per head until the hard dough stage. • **Use pyrethroids with caution:** Pyrethroid resistance is prevalent in corn earworms in Louisiana. • Heligen is only effective on corn earworm.
chlorantraniliprole Vantacor (5SC)	1.2-2.5 ounces	0.047-0.098	106.7-51.2	
lambda-cyhalothrin, chlorantraniliprole Besiege (SC)	6.0-10.0 ounces	premix	21.3-12.8	
NPV Heligen	1.0-1.6	—-	128-80	

Table 3. Head Worms

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
chlorantraniliprole Vantacor (5SC)	1.2-2.5 ounces	0.047-0.098	106.7-51.2	• Heligen is only effective on corn earworm.
lambda-cyhalothrin, chlorantraniliprole Besiege (SC)	6.0-10.0 ounces	premix	21.3-12.8	
NPV Heligen (SC)	1.0-1.6	—-	128-80	

Table 4. Aphids except Sugarcane Aphid

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
dimethoate Dimethoate (4EC)	8.0-16.0 ounces	0.25-0.5	16-8	• Treatments are rarely needed for corn leaf aphids. • Infestations of greenbug are rare.

Table 5. Sugarcane aphid

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
imidacloprid Gaucho (600FS)	8 fluid ounces per hundredweight seed	See label.	See label.	**Seed Treatments** • Insecticide-treated grain sorghum seed may prevent sugarcane aphid colonization for up to 40 days after emergence.
thiamethoxam Cruiser (5FS)	5.1 fluid ounces per hundredweight seed	See label.	See label.	
clothianidin Nipsit Inside (5FS)	5.1-6.4 fluid ounces per hundredweight seed	See label.	See label.	
sulfoxaflor Transform (50WG)	0.75-1.5 ounce	0.023-0.047	16.0-10.7	**Foliar Sprays** • Treat when an average of 50 aphids per leaf is detected on 20% of leaves in a field. Edge treatments may be justified. • Pyrethroids for sorghum midge control may flare aphids. • Use of defoliants may aid in harvest efficiency.
flupyradifurone Sivanto (1.67SC)	4-7 ounces	0.052-0.091	18.3-32	

Table 6. Cutworms

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
esfenvalerate Asana XL (0.66EC)	5.8-9.6 ounces	0.03-0.05	22-13.3	• Treat before injury reduces stand below optimum plant population.
z-cypermethrin Mustang Maxx (0.8EC)	1.28-4.0 ounces	0.008-0.025	100-32	
beta-cyfluthrin Baythroid XL (1EC)	1.0-1.3 ounces	0.008-0.01	128-98.5	
cyfluthrin Tombstone (2EC)	1.0-1.3 ounces	0.016-0.020	128-98.5	
lambda-cyhalothrin Warrior II (2.08CS)	0.96-1.28 ounces	0.015-0.02	133.3-100	
gamma-cyhalothrin Declare (1.25CS)	0.77-1.02 ounces	0.0075-0.01	166.2-125.5	
a-cypermethrin Fastac (0.83EC)	1.3-3.8 ounces	0.008-0.025	98.5-33.7	

Table 7. Fire ants

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
thiamethoxam Cruiser (5F)	5.1 fluid ounces per hundredweight seed	See label.	See label.	• Preventive seed treatments.
imidacloprid Gaucho (480/600FS)	8/6.4 fluid ounces per hundredweight seed	See label.	See label.	
clothianidin Poncho (600FS)	5.1-6.4 fluid ounces per hundredweight seed	See label.	See label.	

Table 8. Sorghum midge

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
methomyl Lannate (2.4LV)	12.0-24.0 ounces	0.225-0.45	10.6-5.3	• At 25% to 30% bloom, treat for 1 or more midges per head. • Additional treatments at 5- to 7-day intervals may be needed. • Plant early and uniformly.
lambda-cyhalothrin Warrior II (2.08CS)	0.96-1.28 ounces	0.015-0.02	133.3-100	
cyfluthrin Tombstone (2EC)	1.0-1.3 ounces	0.016-0.02	128-98.5	
gamma-cyhalothrin Declare (1.25CS)	0.77-1.02 ounces	0.0075-0.01	166.2-125.5	
z-cypermethrin Mustang Maxx (0.8EC)	1.28-4.0 ounces	0.008-0.025	100-32	
esfenvalerate Asana XL (0.66EC)	2.9-5.8 ounces	0.015-0.030	44.1-22	
beta-cyfluthrin Baythroid XL (1EC)	1.0-1.3 ounces	0.008-0.01	128-98.5	
a-cypermethrin Fastac (0.83EC)	1.3-3.8 ounces	0.008-0.025	98.5-33.7	
lambda-cyhalothrin, chlorantraniliprole Besiege (SC)	5.0-6.0 ounces	premix	21.3-25.6	

Table 9. Sorghum webworm

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
spinosad Blackhawk (0.36WG)	1.7-3.3 ounces	0.038-0.074	4.8-9.4	• Treat seed heads for 4 or more worms per head until the hard dough stage.
methomyl Lannate (2.4LV)	24.0 ounces	0.45	5.3	
chlorantraniliprole Vantacor (5SC)	1.2 – 2.5 ounces	0.047-0.098	106.7 – 51.2	
lambda-cyhalothrin, chlorantraniliprole Besiege (SC)	6.0-10.0 ounces	premix	21.3-12.8	

Table 10. Stalk borers

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Economic Threshold/When to Treat
a-cypermethrin Fastac (0.83EC)	1.8-3.8 ounces	0.012-0.025	71.1-33.7	• Treat before larvae bore into the stalk.
cyfluthrin Tombstone (2EC)	1.3-2.8 ounces	0.02- 0.044	98.5-45.7	
lambda-cyhalothrin Warrior II (2.08CS)	1.28-1.92 ounces	0.02- 0.03	100-66.7	
gamma-cyhalothrin Declare (1.25CS)	1.02-1.54 ounces	0.01- 0.015	125.5-83.1	
beta-cyfluthrin Baythroid XL (1EC)	1.3-2.8 ounces	0.01- 0.022	98.5-45.7	
z-cypermethrin Mustang Max (0.8EC)	1.76-4.0 ounces	0.011-0.025	72.7-32	
chlorantraniliprole Vantacor (5SC)	1.2-2.5 ounces	0.047-0.098	106.7-51.2	
lambda-cyhalothrin, chlorantraniliprole Besiege (SC)	6.0-10.0 ounces	premix	21.3-12.8	

Grain Sorghum

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: 0.15 lb. Preharvest interval: 21 days. REI: 12 hours.
- **Baythroid:** Toxic to fish and aquatic invertebrates. Maximum active ingredient per acre per season: 0.066 lb. Preharvest interval: 14 days. REI: 12 hours.
- **Besiege:** Toxic to fish, and aquatic organisms and toxic to wildlife. Maximum active ingredient per acre per season: 0.06 lb lambda-cyhalothrin or 0.2 lb chlorantraniliprole. Preharvest interval: 30 days. REI: 24 hours.
- **Blackhawk:** Toxic to bees. Toxic to aquatic invertebrates, do not apply directly to water. Maximum active ingredient per acre per season: 0.28 lb. Preharvest interval for grain and straw: 21 days; for forage, fodder, and hay: 3 days. REI: 4 hours.
- **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 lb. REI: 12 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: 0.131 lb.
- **Declare:** Same as Karate, but maximum active ingredient per acre per season: 0.04 lb.
- **Dimethoate:** Toxic to wildlife and aquatic organisms. Do not apply after heading. Avoid runoff when spraying. Do not feed or graze within 28 days of the last application. Maximum active ingredient per acre per season: 1 lb. REI: 48 hours.
- **Gaucho 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.
- **Warrior II:** 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: 0.08 lb. Preharvest interval: 30 days. REI: 24 hours.
- **Lannate:** Toxic to fish, birds, bees, and 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 lb. REI: 48 hours.
- **Mustang Maxx:** Toxic to bees, fish, and aquatic vertebrates. Maximum active ingredient per acre per season: 0.125 lb. Preharvest interval: 14 days. REI: 12 hours.
- **Poncho:** Do not use treated seed for feed, food, or oil. Refer to the label for replant restrictions following treated seed planting. Treated seeds exposed on the soil surface may be hazardous to wildlife.
- **Vantacor:** Maximum active ingredient per acre per season: 0.2 lb. Preharvest interval: 14 days. REI: 4 hours.