

Crops - Commercial

Grain Sorghum

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	Soil Insecticides				Preventive: Rates are based on 1,000 row feet.
	chlorpyrifos 15G ^{1,2}	8.0 ounces per 1,000 row feet	1.0		
	Seed Treatments				Preventive.
	Gaucho 600	8 fluid ounces per hundredweight seed			
	Cruiser 5FS	5.1 fluid ounces per hundredweight seed			
	Nipsit Inside (5)	5.1-6.4 fluid ounces per hundredweight seed			
	Foliar Sprays				Treat when two 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 need for treatment.
	Cyfluthrin (2)	2.0-2.8 ounces	0.038-0.044	64-45.7	
	chlorpyrifos (4)	16.0-32.0 ounces	0.5-1.0	8-4	
	Declare (1.25)	1.54 ounces	0.015	83.1	
	zeta-cypermethrin (0.8)	3.2-4.0 ounces	0.02-0.025	40-32	
	/lambda-cyhalothrin (2.08)	1.92 ounces	0.03	66.7	
	Baythroid XL (1)	2.0-2.8 ounces	0.02	64-45.7	
	Fastac (0.83)	3.2-3.9 ounces	0.02-0.025	40-32.8	
Corn Earworm, Fall Armyworm (Whorl Feeders)	Blackhawk (0.36)	1.7-3.3 ounces	0.038-0.075	9.4-4.8	Treatment in the whorl stage is rarely needed.
	Prevathon (0.43)	14.0-20.0 ounces	0.047-0.067	9.1-6.4	
	Besiege	6.0-10.0 ounces	premix	21.3-12.8	
Corn Earworm, Fall Armyworm (Head Worms)	Cyfluthrin (2)	1.3-2.8 ounces	0.02-0.044	98.5-45.7	Treat seed heads for one or more worms per head, up until the hard dough stage.
	Baythroid XL (1)	1.3-2.8 ounces	0.01-0.022	98.5-45.7	
	Blackhawk	1.7-3.3 ounces	0.038-0.074	4.8-9.4	
	lambda-cyhalothrin (2.08)	1.28-1.92 ounces	0.02-0.03	100-66.7	

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Corn Earworm, Fall Armyworm (Head Worms) - Continued	Asana XL (0.66)	5.8-9.6 ounces	0.03-0.05	22-13.3	Use pyrethroids with caution: Pyrethroid resistance is prevalent in corn earworms in Louisiana.
	zeta-cypermethrin (0.8)	1.76-4.0 ounces	0.011-0.025	72.7-32	
	Declare (1.25)	1.02-1.54 ounces	0.01-0.015	125-83.1	
	Fastac (0.83)	1.8-3.8 ounces	0.012-0.025	71.1-33.7	
	Prevathon (0.43)	14.0-20.0 ounces	0.047-0.067	9.1-6.4	
	Besiege	6.0-10.0 ounces	premix	21.3-12.8	
Corn Leaf Aphid, Greenbug, Yellow Sugarcane Aphid	Dimethoate (4)	8.0-16.0 ounces	0.25-0.5	16-8	Treatments are rarely needed for corn leaf aphid.
	Chlorpyrifos (4)	16.0-32.0 ounces	0.5-1.0	8-4	Infestations of greenbug are rare.
Sugarcane Aphid (Also Known as White Sugarcane Aphid)	Seed Treatments				Preliminary research suggests insecticide treated grain sorghum seed prevents sugarcane aphid colonization for up to 40 days after emergence.
	Gaucho 600	8 fluid ounces per hundredweight seed			
	Cruiser 5FS	5.1 fluid ounces per hundredweight seed			
	Nipsit Inside (5)	5.1-6.4 fluid ounces per hundredweight seed			
	Foliar Sprays				Preliminary research suggests a threshold of an average of 50 aphids per leaf detected on 20% of leaves in a field. Edge treatments may be justified. Pyrethroids for sorghum midge control may flare aphids. Use of defoliant may aid in harvest efficiency.
	chlorpyrifos (4)	32.0 ounces	1.0	4	
	Sivanto (1.67)	4-7 ounces	0.052-0.091	18.3-32	

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Cutworms	chlorpyrifos (4)	16.0-32.0 ounces	0.5-1.0	8-4	Treat before injury reduces stand below optimum plant population.
	Asana XL (0.66)	5.8-9.6 ounces	0.03-0.05	22-13.3	
	zeta-cypermethrin (0.8)	1.28-4.0 ounces	0.008-0.025	100-32	
	Baythroid XL (1)	1.0-1.3 ounces	0.008-0.01	128-98.5	
	Cyfluthrin (2)	1.0-1.3 ounces	0.016-0.020	128-98.5	
	lambda-cyhalothrin (2.08)	0.96-1.28 ounces	0.015-0.02	133.3-100	
	Declare (1.25)	0.77-1.02 ounces	0.0075-0.01	166.2-125.5	
	Fastac (0.83)	1.3-3.8 ounces	0.008-0.025	98.5-33.7	
Fire Ants	Cruiser 5F	5.1 fluid ounces per hundredweight seed			Preventive treatments. Soil insecticide rate is based on 1,000 row feet.
	Gaucho 480/600	8/6.4 fluid ounces per hundredweight seed			
	Lorsban 15G ^{1,2}	8.0 ounces per 1,000 row feet	1.0 ¹		
	Poncho 600	5.1-6.4 fluid ounces per hundredweight seed			
Sorghum Midge	chlorpyrifos (4)	8.0 ounces	0.25	16	At 25% to 30% bloom, treat for one or more midges per head.
	Lannate (2.4)	12.0-24.0 ounces	0.225-0.45	10.6-5.3	
	lambda-cyhalothrin (2.08)	0.96-1.28 ounces	0.015-0.02	133.3-100	
	Cyfluthrin (2)	1.0-1.3 ounces	0.016-0.02	128-98.5	Additional treatments at 5- to 7-day intervals may be needed.
	Declare (1.25)	0.77-1.02 ounces	0.0075-0.01	166.2-125.5	
	zeta-cypermethrin (0.8)	1.28-4.0 ounces	0.008-0.025	100-32	Plant early and uniformly.
	Asana XL (0.66)	2.9-5.8 ounces	0.015-0.030	44.1-22	
	Baythroid XL (1)	1.0-1.3 ounces	0.008-0.01	128-98.5	
	Fastac (0.83)	1.3-3.8 ounces	0.008-0.025	98.5-33.7	
	Besiege	5.0-6.0 ounces	premix	21.3-25.6	

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Sorghum Webworm	Blackhawk	1.7-3.3 ounces	0.038-0.074	4.8-9.4	Treat seed heads for four or more worms per head, up until the hard dough stage.
	Lannate (2.4)	24.0 ounces	0.45	5.3	
	chlorpyrifos (4)	16.0 ounces	0.5	8.0	
	Prevathon (0.43)	14.0-20.0 ounces	0.047-0.067	9.1-6.4	
	Besiege	6.0-10.0 ounces	premix	21.3-12.8	
Stalk Borers	Fastac (0.83)	1.8-3.8 ounces	0.012-0.025	71.1-33.7	Treat before larvae bore into stalk.
	Cyfluthrin (2)	1.3-2.8 ounces	0.02- 0.044	98.5-45.7	
	lambda-cyhalothrin (2.08)	1.28-1.92 ounces	0.02- 0.03	100-66.7	
	Declare (1.25)	1.02-1.54 ounces	0.01- 0.015	125.5-83.1	
	Baythroid XL (1)	1.3-2.8 ounces	0.01- 0.022	98.5-45.7	
	zeta-cypermethrin (0.8)	1.76-4.0 ounces	0.011-0.025	72.7-32	
	Prevathon (0.43)	14.0-20.0 ounces	0.047-0.067	9.1-6.4	
	Besiege	6.0-10.0 ounces	premix	21.3-12.8	
<p>¹ Refer to label for application instructions/restrictions on application method, i.e. in-furrow, surface band, T-band, etc.</p> <p>² May cause phytotoxicity if used on light soils.</p>					

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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 pound. Preharvest interval: 21 days. REI: 12 hours.
Baythroid: Toxic to fish and aquatic invertebrates. Maximum active ingredient per acre per season: 0.066 pound. Preharvest interval: 14 days. REI: 12 hours.
Besiege: Extremely toxic to fish, aquatic organisms and toxic to wildlife. Maximum active ingredient per acre per season: 0.06 pound lambda-cyhalothrin or 0.2 pound chlorantraniliprole. Preharvest interval: 30 days. REI: 24 hours.
Bifenthrin: Same as Brigade
Blackhawk: Toxic to bees. Toxic to aquatic invertebrates, do not apply directly to water. Maximum active ingredient per acre per season: 0.28 pound. Preharvest interval for grain, straw: 21 days; for forage, fodder, 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 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: 0.131 pound.

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Insecticide Precautions and Limitations (refer to insecticide label for complete information)
Declare: Same as Karate, but maximum active ingredient per acre per season: 0.04 pound.
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 pound. 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.
Gaicho 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. 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: 0.08 pound. Preharvest interval: 30 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: 1.5 pounds. Preharvest interval for grain: 30 days; for grazing and silage: 30 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: 0.125 pound. Preharvest interval: 14 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.
Prevathon: Maximum active ingredient per acre per season: 0.2 pound. Preharvest interval: 14 days. REI: 4 hours.
Respect: Toxic to bees, fish and aquatic vertebrates. Maximum active ingredient per acre per season: 0.125 pound. Preharvest interval: 14 days. REI: 12 hours.
Sevin: Maximum active ingredient per acre per season: 6 pounds. Preharvest interval for grain/fodder: 21 days; preharvest interval for grazing/silage: 14 days. REI: 12 hours.
Sivanto: Maximum active ingredient per acre per season: 0.365 pound. Preharvest interval for grain, stover, or straw: 21 days; preharvest interval for forage: 7 days. REI: 4 hours.
Tracer: Toxic to bees. Do not apply to water. Maximum active ingredient per acre per season: 0.45 pound. Preharvest interval for grain or fodder: 7 days; for forage: 14 days. REI: 4 hours.
Warrior T: Same general restrictions as Karate.
Abbreviations: REI: Re-entry interval; AI: Active ingredient.