

**LOUISIANA RECOMMENDATIONS FOR CONTROL  
OF INSECTS ON CORN AND GRAIN SORGHUM**

<b>Insect</b>	<b>Insecticide</b>	<b>Rate Lb. Active Ingredient/Acre</b>	<b>Economic Threshold When to Treat</b>
<b>CORN</b>	<u>At planting</u>		
Rootworms	Capture/bifenthrin (2)	0.06 <sup>1</sup>	Preventive treatment. Apply at planting. Rates are based on a 40-inch row spacing. (See footnote #1).
	Furadan 4F	1.0	
	Lorsban/chlorpyrifos 15G <sup>3</sup>	1.0 <sup>1</sup>	
	Force 3G	0.1 <sup>1</sup>	
	Counter 15G <sup>2</sup>	1.0 <sup>1</sup>	
	Thimet 20G <sup>3,4</sup>	1.0 <sup>1</sup>	
	Regent 4SC <sup>6</sup>	0.1 <sup>1</sup>	
	Aztec 2.1G	0.11 <sup>1</sup>	
	Poncho 500/1250	0.5/1.25 mgs AI/kernel seed treatment	
	Cruiser 5F	1.25 mgs AI/kernel seed treatment	
<b>CORN</b>	<u>At planting</u>		
Cutworms	Lorsban/chlorpyrifos 15G <sup>3</sup>	1.0 <sup>1</sup>	Preventive treatment. Apply at planting. Rates are based on a 40-inch row spacing.
	Force 3G	0.1 <sup>1</sup>	
	Aztec 2.1 G	0.11 <sup>1</sup>	
	<u>At-planting bands or post-emergence</u>		
	Karate/Warrior T/ lambda-cyhalothrin	0.015-0.025	Treat when seedling plants show 6% to 8% damage from above ground cutting, or 2% to 4% from below ground boring
	Lorsban/chlorpyrifos <sup>5</sup> (4)	0.5-1.0	
	Mustang Max (0.8)	0.008-0.0175	
	Permethrin	0.1-0.15	
	Capture/bifenthrin (2)	0.033-1.0	
	Asana XL (0.66)	0.03-0.05	
	Baythroid XL (1)	0.007-0.012	
	Cyfluthrin (2)	0.013-0.025	
<b>CORN</b>	<u>At planting</u>		
Chinch bugs	Regent 4SC <sup>8</sup>	0.1 <sup>1</sup>	Preventive treatment. Apply at planting. Rates are based on a 40-inch row spacing.
	Aztec 2.1G	0.11 <sup>1</sup>	
	Furadan 4F	1.0 <sup>1</sup>	
	Counter 15G <sup>2</sup>	1.0 <sup>1</sup>	
	Thimet 20G <sup>3,4</sup>	1.0 <sup>1</sup>	
	Lorsban/chlorpyrifos 15G <sup>3</sup>	1.0 <sup>1</sup>	
	<u>Seed Treatments</u>		Commercially treated seed
	Cruiser 5FS	0.5-0.8 mgs AI/kernel	
	Poncho 500/1250	0.5/1.25 mgs AI/ kernel	
	<u>Post-emergence</u>		
	Baythroid XL (1)	0.02	Seedling corn less than 6 inches tall: 5 or more bugs on 20% or more plants. Larger plants require a judgment decision based on bug counts, crop vigor, and weather conditions.
	Lorsban/ chlorpyrifos <sup>5</sup> (4)	0.5-1.0	
	Karate Z/Warrior T/ lambda-cyhalothrin	0.03	
	Capture/bifenthrin (2)	0.033-0.1	
	Mustang Max (0.8)	0.02-0.025	
	Cyfluthrin (2)	0.03	
	Sevin (carbaryl) (4)	1.5-2.0	
	Furadan 4F	0.5	

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Insect	Insecticide	Rate Lb. Active Ingredient/Acre	Economic Threshold When to Treat
<b>CORN</b>			
Corn earworm Fall armyworm (Whorls only)	Mustang Max (0.8)	0.011-0.025	Treatment for worms in the whorl is rarely needed, except in extreme situations.
	Sevin (carbaryl) (4)	1.5-2.0	
	Asana XL (0.66)	0.03-0.05	Treatment for worms in the ear is not recommended.
	Permethrin (3.2)	0.1-0.2	
	Karate Z/Warrior T/ lambda-cyhalothrin	0.02-0.025	
	Baythoid XL (1)	0.012-0.022	
	Capture/bifenthrin (2)	0.033-0.1	
	Cyfluthrin (2)	0.025-0.044	
<b>CORN</b>			
Stink bugs	Methyl parathion <sup>5</sup> (4)	0.25-0.5	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..
	Baythroid XL <sup>7</sup> (1)	0.012-0.022	
	Mustang Max <sup>7</sup> (0.8)	0.017-0.025	
	Capture/ bifenthrin (2)	0.033-0.1	
	Cyfluthrin <sup>7</sup> (2)	0.025-0.044	
	Karate Z/Warrior T/ lambda-cyhalothrin <sup>9</sup>	0.02-0.03	
<b>CORN</b>			
Cucumber beetles and Grape colaspis	Methyl parathion (4) <sup>5</sup>	0.25	At silking, treat when 5 or more bugs are found per ear.
<b>CORN</b>			
Stalk borers	Mustang Max (0.8)	0.017-0.025	Before tassel stage, treat for 25% infested plants. At and after tassel stage, treat for 10% infested plants.
	Furadan 4F	1.0	
	Asana XL (0.66)	0.03-0.05	
	Permethrin	0.1-0.2	
	Karate Z/Warrior T/ lambda-cyhalothrin	0.02-0.03	
	Intrepid (2)	0.06-0.12	
	Cyfluthrin (2)	0.025-0.044	
	Capture/bifenthrin (2)	0.033-0.10	
	Baythroid XL (1)	0.012-0.022	
	Bt Hybrids	Yieldguard and Herculex	
<b>GRAIN SORGHUM</b>			
Fire Ants	Cruiser 5F	5.1 fluid ozs/cwt seed	Preventive treatments. Soil insecticide rate is based on a 40-inch row spacing.
	Gaucho 480	8 fluid ozs/cwt seed	
	Lorsban 15G	1.0 <sup>1</sup>	
<b>GRAIN SORGHUM</b>			
Chinch Bugs	<u>Soil Insecticides</u>		Preventive: Rates are based on a 40-inch row spacing.
	Furadan 4F <sup>1</sup>	1.0	
	Lorsban/chlorpyrifos 15G <sup>1</sup>	1.0	
	<u>Seed Treatments</u>		Preventive.
	Gaucho 480	8 fluid ozs/cwt seed	
	Poncho 600	5.1-6.4 fluid ozs/cwt seed	
	Cruiser 5FS	5.1 fluid ozs/cwt seed	

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Insect	Insecticide	Rate Lb. Active Ingredient/Acre	Economic Threshold When to Treat
<b>GRAIN SORGHUM</b>			
Chinch bugs (cont'd)	<u>Foliar sprays:</u>		Treat when two or more adults are found on 20% of seedling plants. For larger plants, a judgment decision based on bug counts, crop vigor, and growing conditions will determine need for treatment.
		Cyfluthrin (2) 0.03	
		Lorsban/chlorpyrifos (4) 0.5-1.0	
		Sevin (carbaryl) (4) 1.5-2.0	
		Furadan 4F 0.5	
		Mustang Max (0.8) 0.02-0.025	
		Karate Z/ lambda-cyhalothrin (2.08) 0.03	
	Baythroid XL (1) 0.02		
<b>GRAIN SORGHUM</b>			
Corn leaf aphid,	Dimethoate (2.67)	0.25-0.5	Treatments are rarely needed for corn leaf aphid. Infestations of greenbug are rare.
Greenbug yellow sugarcane aphid	Lorsban/chlorpyrifos (4)	0.25-0.5	
<b>GRAIN SORGHUM</b>			
Sorghum	Lorsban/chlorpyrifos (4)	0.25-0.5	At 25-30% bloom, treat for 1 or more midge per head. Additional treatments at 5-7 day intervals may be needed. Plant early and uniformly.
Midge	Lannate (2.4)	0.225-0.45	
		Karate Z/lambda-cyhalothrin (2.08) 0.02	
		Cyfluthrin (2) 0.02	
		Prolex (1.25) 0.01	
		Mustang Max (0.8) 0.025	
		Asana XL (0.66) 0.03	
		Baythroid XL (1) 0.01	
<b>GRAIN SORGHUM</b>			
Corn Earworm	Cyfluthrin (2)	0.02-0.044	Treatment in the whorl stage is rarely needed.
Fall Armyworm	Sevin (carbaryl) (4)	1.5-2.0	Treat seed heads for 1 or more worms per head, up until the hard dough stage.
	Baythroid XL (1)	0.01-0.022	
	Lannate (2.4)	0.33-0.45	
	Karate Z/ lambda-cyhalothrin (2.08)	0.02-0.03	
	Asana XL (0.66)	0.03-0.05	
	Tracer (4)	0.047-0.094	
	Mustang Max (0.8)	0.011-0.025	
	Prolex (1.25)	0.01-0.015	
<b>GRAIN SORGHUM</b>			
Sorghum	Sevin (carbaryl) (4)	1.5-2.0	Treat seed heads for 4 or more worms per head, up until the hard dough stage.
Webworm	Lannate (2.4)	0.45	
		Lorsban/chlorpyrifos (4) 0.5	
		Tracer (4) 0.047-0.094	
<b>GRAIN SORGHUM</b>			
Stalk borers	Cyfluthrin (2)	0.02- 0.044	Treat before borer larvae bore into stalk.
	Mustang Max (0.8)	0.011- 0.025	
	Karate Z/ lambda/cyhalothrin (2.08)	0.02- 0.03	
	Prolex (1.25)	0.01- 0.015	
	Baythroid XL (1)	0.01- 0.022	

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<b>GRAIN SORGHUM</b>			
Cutworms	Lorsban/chlorpyrifos (4)	0.5- 1.0	Treat before damage reduces stand below optimum plant population.
	Asana XL (0.66)	0.03- 0.05	
	Mustang Max (0.8)	0.008- 0.025	
	Baythroid XL (1)	0.008- 0.01	
	Cyfluthrin (2)	0.016- 0.02	
	Karate Z/ lambda-cyhalothrin (2.08)	0.015- 0.02	
	Prolex (1.25)	0.0075- 0.01	

**Footnotes**

- <sup>1</sup> The rate provided is active ingredient per acre based on 40-inch row spacing. Refer to label for the amount of product per 1,000 row feet. Also, refer to label for application instructions/restrictions on application method, i.e. in-furrow, surface band, T-band, etc.
- <sup>2</sup> Serious crop injury may occur if an ALS inhibiting herbicide is applied to corn previously treated at planting with Counter 15G. Read the ALS herbicide label carefully for exact restrictions and precautions.
- <sup>3</sup> Crop injury may occur if an ALS inhibiting herbicide is applied to corn treated at planting with Thimet, Lorsban, or other organophosphate soil insecticide.
- <sup>4</sup> May cause phytotoxicity if used on light soils.
- <sup>5</sup> 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.
- <sup>6</sup> At planting treatments control first generation stalk borers.
- <sup>7</sup> Warrior T will not give effective control of brown stink bugs. Mustang Max, Cyfluthin, and Baythroid XL will give satisfactory brown stink bug control only at the highest recommended rates.

**Insecticide Precautions and Limitations (refer to insecticide label for complete information)**

**Asana XL:** Toxic to fish. Do not apply directly to water. Maximum AI/acre per season: corn, 0.25 lb; grain sorghum 0.15 lb. Pre-harvest interval: corn, 21 days; grain sorghum, 21 days. REI: 12 hours.

**Aztec:** EPA SLN No. LA98001: Use only on corn grown west of Baton Rouge and north of Interstate 10. Toxic to fish and wildlife. Keep out of water. REI: 0 hours.

**Baythroid:** Toxic to fish and aquatic invertebrates. Maximum AI/acre per season: corn, 0.088 lb; grain sorghum 0.066 lb. Pre-harvest interval: corn, 21 days; grain sorghum, 14 days. REI: 12 hours

**Capture:** 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 AI per acre per season: 0.3 lb. 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 AI/acre for corn is 0.175; grain sorghum is 0.131.

**Dimethoate:** Toxic to wildlife and aquatic organisms. Do not apply after heading. Avoid runoff when spraying. On grain sorghum do not feed or graze within 28 days of the last application; make no more than 3 applications per season. 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 hrs.

**Furadan 4F:** Toxic to bees, fish, birds, and other wildlife. Keep out of any body of water. Do not apply where runoff is likely or when weather conditions favor drift. On corn, do not make more than two foliar applications per season or one application per season if Furadan was used as a soil insecticide. On corn, do not apply within 30 days of harvest. On sorghum, do not make more than two applications per season at the one-pint rate. On sorghum, do not apply after heads emerge from boot. Do not graze or harvest sorghum grown for silage within 75 days of treatment. Reentry interval: 14 days for foliar spray and 48 hours for soil applied.

**Gaicho 600:** Highly toxic to birds and aquatic invertebrates. Do not graze or feed livestock on treated seed areas for 45 days after planting. Reentry interval: 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. On corn do not apply within 21 days of harvest.

## **Insecticide Precautions and Limitations (refer to insecticide label for complete information) cont'd**

**Karate Z:** Toxic to fish, aquatic organisms, and bees. Do not graze livestock on treated areas or harvest for livestock feed. Maximum AI/acre per year is 0.08 lb. Pre-harvest 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 AI per acre per season: 0.9 lbs. Reentry interval: 48 hours.

**Lorsban:** Toxic to bees, birds, fish, and other wildlife. Pre-harvest interval for grain: corn, 35 days; grain sorghum, 30 days. Pre-harvest interval for grazing and silage: corn, 14 days; grain sorghum, 30 days. Maximum AI per acre per season: corn, 3 lbs.; grain sorghum 1.5 lbs. REI: 12 hours for 15G; 24 hours for 4E.

**Methyl parathion:** Toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not apply during pollen shed. On corn, do not harvest within 12 days of last application. REI: 4 days.

**Mustang Max:** Toxic to bees, fish, and aquatic vertebrates. Do not apply more than 0.125 lb. AI per acre on grain sorghum or 0.10 lb AI per acre on corn, per season. Pre-harvest interval: corn, 30 days; sorghum, 14 days. REI: 12 hours

**Prolex:** Same as Karate, but do not apply more than 0.04 pound AI per acre per season.

**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.

**Permethrin:** Toxic to fish and bees. Pre-harvest interval for grain: 30 days. Maximum AI per acre per season: 0.6 lbs. Keep out of any body of water. REI: 24 hours.

**Regent:** Do not get on skin, breathe the spray mist, or get in eyes. Toxic to birds and aquatic life. Keep out of water and avoid runoff. REI: 24 hrs.

**Sevin:** Pre-harvest interval for grain/fodder: corn, 48 days; grain sorghum, 21 days; pre-harvest interval on grazing/silage for corn and grain sorghum, 14 days. Maximum AI per acre per season: corn, 8 lbs; grain sorghum, 6 lbs. REI: 12 hours.

**Tracer:** Toxic to bees. Don't apply to water. Don't apply more than 14.4 ozs per acre per year. Pre-harvest treatment for grain or fodder, 7 days; for forage, 14 days.

**Thimet:** This product is toxic to fish, shrimp, crabs, birds, and other wildlife. Keep out of lakes, streams, ponds, marshes, and estuaries. Do not apply where runoff is likely to occur. REI: 48 hours.

**Warrior T:** Same general restrictions as Karate. On corn do not apply more than 0.12 lb AI per acre per season or 0.06 lb. AI per acre after silking. Pre-harvest: 21 days. REI: 24 hours.

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