

GRAIN SORGHUM INSECTICIDE PERFORMANCE RATING, 2012

	Restricted Use (R)	Chinch Bug	Sorghum Webworm	Corn Earworm	Fall Armyworm	Greenbug/Aphid	Sorghum Midge	Stink Bug
Asana XL/Adjourn	X	7	6	8	6	8	8	7
Baythroid XL	X	7	6	8	6	8	8	7
Belt				7	8			
Cruiser		3				7		
Dimethoate		5	5		5	8	8	5
Gaucho/Axcess/Senator		3				7		
Karate Z/Silencer/Lambda-Cy	X	7	6	8	6	8	8	7
Lannate	X	5	8	7	8	7	6	5
Lorsban/Chlorpyrifos/Nufos	X	5	7	5	7	8	6	5
Mustang Max/Respect	X	7	6	8	6	8	8	7
Nipsit Inside		7				7		
Poncho		7				7		
Prolex/Declare	X	7	6	8	6	8	8	7
Sevin		7	7	5	7	5	6	5
Tracer			7	6	7	0		0

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 plants in 4 spots (100/field)
Chinch Bug	When stand is threatened	
Greenbug	Plants up to 6 inches – visible damage with colonies present 6 inches to preboot – treat before entire leaves die Preboot to hard dough – treat when 2 or more entire leaves die	Examine 25 plants in 4 spots (100/field)
Yellow Sugarcane Aphid	1 aphid per seedling	Examine 25 plants in 4 spots (100/field)
Sorghum Midge	1 adult midge per head when 25%-30% of plants are flowering	Examine 25 plants in 4 spots (100/field)
Corn Earworm/Fall Armyworm	2 larvae 1/2-inch long or longer per head	Examine 25 plants in 4 spots (100/field)
Sorghum Webworm	5 to 6 larvae per head	Examine 25 plants in 4 spots (100/field)
Stink Bug	5 per head from flowering to soft dough 16 per head during hard dough	

GRAIN SORGHUM INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest	
Chinch Bug	At Planting Treatments:						
	clothianidin Poncho 600	5.1-6.4 oz/100 lb seed			Apply soil-applied treatments in areas with a history of high populations of chinch bugs.		
	Nipsit Inside 5 F	5.1-6.4 oz/100 lb seed			Cruiser, Gaucho, Axxess, Senator, Nipsit and Poncho will give early season suppression of chinch bugs.		
	imidacloprid						
	Gaicho 5 FS	6.4 oz/100 lb seed					
	Axxess 5 FS	6.4 oz/100 lb seed					
	Senator 5 FS	6.4 oz/100 lb seed					
	thiamethoxam						
	Cruiser 5 FS	5.1 oz/100 lb seed					
	Foliar Applied Treatments:					Chinch Bug Treatment Level: On seedling grain sorghum (6" or less), apply foliar sprays when stand is threatened. On taller plants, apply controls when immature and adult bugs infest 75% of the plants. Use 20-30 gal of water per acre. Direct sprays toward infested areas.	
	β -cyfluthrin (R) Baythroid XL 1 EC	2.0-2.8 oz	0.019-0.022	45.7-98.5		14	
	carbaryl Sevin 80 S	1.25-2.5 lb	1.0-2.0			21 (grain) 14 (forage)	
	esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26)	5.8-9.6 oz	0.03-0.05	13-22		21	
γ -cyhalothrin 1.25 CS (R) Prolex/Declare	1.54 oz	0.015	83		30		
λ -cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26)	1.92 oz	0.03	67		30		
ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect	3.2-4.0 oz	0.02-0.025	32-40		14 (grain & forage) 45 (fodder)		
Greenbugs and Other Aphids	At Planting Treatments:						
	clothianidin Poncho 600	5.1-6.4 oz/100 lb seed			Cruiser, Gaucho, Axxess, Senator and Poncho will give early season suppression of chinch bugs and aphids.		
	Nipsit Inside 5 F	5.1-6.4 oz/100 lb seed					
	imidacloprid						
	Gaicho 5 FS	6.4 oz/100 lb seed					
	Axxess 5 FS	6.4 oz/100 lb seed					
	Senator 5 FS	6.4 oz/100 lb seed					
thiamethoxam							
Cruiser 5 FS	5.1 oz/100 lb seed						

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest
Greenbug and Other Aphids (cont.)	Foliar Applied Treatments: chlorpyrifos (R) Lorsban 4 EC <i>(See generics, p. 26)</i>	0.5-1.0 pt	0.25-0.5	8-16	Apply sprays when infestation occurs. Yellow Sugarcane Aphid: Treat for 1 aphid per seedling plant or when damage occurs on larger plants. Aphid feeding causes seedling plants to turn purple, similar to phosphate deficiency.	30
	dimethoate Dimethoate 4 E Dimethoate 5 E Dimethoate 2.67 E	0.5-1.0 pt 6.4-12.8 oz 0.75-1.5 pt	0.25-0.5	8-16 10-20 5.3-10.7	Greenbug Treatment Levels: Emergence to 6 inches high, treat for visible damage with colonies of greenbugs on plants. Larger plants to pre-boot, treat before any entire leaves are killed. Pre-boot to hard dough, treat when greenbug numbers are sufficient to cause death of more than two normal-sized leaves. Do not apply more than 3 times. Other Aphids: Control is seldom justified unless plant growth is inhibited. Do not apply more than 3 times.	28
	Sorghum Midge					
	β-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.3 oz	0.008-0.01	98-128	Apply controls when 25%-30% of the heads have begun to flower and the number of midge adults found averages one per head. If adults are found in similar number in 3-5 days after treatment and sorghum is still blooming, treat again.	14
	chlorpyrifos (R) Lorsban 4 EC <i>(See generics, p. 26)</i>	0.5 pt	0.25	16		30
	dimethoate Dimethoate 4 E Dimethoate 5 E Dimethoate 2.67 E	0.25-0.5 pt 3.2-6.4 oz 6-12 oz	0.125-0.25	16-32 20-40 10.7-21.3		28
	esfenvalerate (R) Asana XL 0.66 EC <i>(See generics, p. 26)</i>	2.9-5.8 oz	0.015-0.03	22-44		21
	γ-cyhalothrin 1.25 CS (R) Prolex/Declare	0.77-1.28 oz	0.0075-0.0125	100-167		30
	λ-cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i>	0.96-1.28 oz	0.015-0.02	100-133		30
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.6		14
	ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		14 (grain & forage) 45 (fodder)
Corn Earworm	β-cyfluthrin (R) Baythroid XL 1 EC	1.3-2.8 oz	0.01-0.022	45.7-98.5	Whorl Stage: Damage seldom occurs, but extremely high populations of 3-6 worms per plant may justify treatment. Use 20-30 gal per acre directed into whorls.	14
	carbaryl Sevin 80S Sevin XLR or 4 F	1.87-2.5 lb 3-4 pt	1.5-2.0	2.0-2.7	Heading: Corn Earworm – Treat when numbers exceed an average of 2 larvae per head, 1/2 inch in size, in maturing sorghum.	21 (grain) 14 (forage)

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest
Corn Earworm	esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26)	5.8-9.6 oz	0.03-0.05	13-22		21
	flubendiamide Belt 4 SC	2-4 oz	0.0625-0.125	32-64		14
	γ-cyhalothrin 1.25 CS (R) Prolex/Declare	1.02-1.54 oz	0.01-0.015	83-125		30
	λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26)	1.28-1.92 oz	0.02-0.03	66.7-100		30
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.7		14
	spinosad Tracer 4 SC	1.5-3.0 oz	0.047-0.094	43-85		7 (grain) 14 (forage)
	ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		14 (grain & forage) 45 (fodder)
Fall Armyworm, Sorghum Webworm	carbaryl Sevin 80 S Sevin XLR	1.87-2.5 lb 3-4 pt	1.5-2.0	2.0-2.7	Heading: Fall Armyworm – Treat when numbers exceed an average of 2 larvae per head, 1/2 inch in size, in maturing sorghum.	21 (grain) 14 (forage)
	flubendiamide Belt 4 SC	2-4 oz			Sorghum Webworm: Treat when an average of 5 or 6 small larvae are found per head. DO NOT apply methyl parathion to grain sorghum for it will damage plants. Use higher rate for sorghum webworm.	14
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.7		14
	spinosad Tracer 4 SC	1.5-3.0 oz	0.047-0.094	43-85		7 (grain) 14 (forage)
Stink Bugs	β-cyfluthrin (R) Baythroid XL 1 EC	1.3-2.8 oz	0.01-0.022	45.7-98.5		14
	esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26)	5.8-9.6 oz	0.03-0.05	13-22	Treat when 5 or more stink bugs per head from flowering through soft dough. Treat when 16 or more stink bugs per head during hard dough.	21
	γ-cyhalothrin 1.25 CS (R) Prolex/Declare	1.02-1.54 oz	0.01-0.015	83-125		30
	λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26)	1.28-1.92 oz	0.02-0.03	66.7-100		30
	ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		14 (grain & forage) 45 (fodder)