

GRAIN SORGHUM INSECTICIDE PERFORMANCE RATING, 2009

	Restricted Use (R)	Chinch Bug	Sorghum Webworm	Corn Earworm	Fall Armyworm	Greenbug/Aphid	Sorghum Midge	Stink Bug
Asana XL/Adjourn	X	8	6	8	6	8	8	7
Baythroid XL	X	8	6	8	6	8	8	7
Cruiser		8				7		
Dimethoate		5	5	–	5	8	8	5
Gaicho		8	–	–	–	7	–	–
Karate Z/Silencer/Lambda-Cy	X	8	6	8	6	8	8	7
Lannate	X	5	8	7	8	7	6	5
Lorsban/Chlorpyrifos	X	5	7	5	7	8	6	5
Mustang Max/Respect	X	8	6	8	6	8	8	7
Poncho		7				7		
Prolex	X	8	6	8	6	8	8	7
Sevin		7	7	5	7	5	6	5
Temik	X	8	–	–	–	7	–	–
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.

GRAIN SORGHUM INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
Chinch Bugs	At Planting Treatments:					
	aldicarb (R) Temik 15 G	7 lb	1.05		Apply soil-applied treatments in areas with a history of high populations of chinch bugs.	90
	clothianidin Poncho 600	5.1-6.4 oz/100 lb seed				
	imidacloprid Gaucho 480 FS	4 oz/100 lb seed			Cruiser, Gaucho and Poncho will give early season suppression of chinch bugs.	
	thiamethoxam Cruiser 5 FS	5.1 oz/100 lb seed				
	Foliar Applied Treatments:					
	beta-cyfluthrin (R) Baythroid XL 1 EC	2.0-2.8 oz	0.019-0.022	45.7-98.5	Chinch Bug Treatment Level: On seedling grain sorghum (6 inches or less), apply foliar sprays when 2 or more adult chinch bugs are found on 20% of the plants. On taller plants, apply controls when immature and adult bugs infest 75% of the plants. Use 20-30 gallons of water per acre. Direct sprays toward infested areas.	14
	carbaryl Sevin 80 S	1.25-2.5 lb	1.0-2.0			21 (grain) 14 (forage)
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.54 oz	0.015	83		30
lambda-cyhalothrin (R) Karate Z 2.08 CS	1.92 oz	0.03	67	30		
Lambda-Cy/Silencer 1 EC	3.84 oz		33.3			
zeta-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:					
	aldicarb (R) Temik 15 G	7 lb	1.05			90
	clothianidin Poncho 600	5.1-6.4 oz/100 lb seed			Cruiser, Gaucho and Poncho will give early season suppression of greenbugs and other aphids.	
	imidacloprid Gaucho 480 FS	4 oz/100 lb seed				
	thiamethoxam Cruiser 5 FS	5.1 oz/100 lb seed				

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Greenbugs and Other Aphids	Foliar Applied Treatments: chlorpyrifos (R)		0.25-0.5		Apply sprays when infestation occurs. Yellow Sugarcane Aphid: Treat for 1 aphid per seedling plant, when damage occurs on larger plants. Aphid feeding causes seedling plants to turn purple similar to phosphate deficiency.	30
	Lorsban 4 E	0.5-1.0 pt		8-16		
	Chlorpyrifos 4 EC	0.5-1.0 pt		8-16		
	dimethoate		0.25-0.5		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..	28
	Dimethoate 4 E	0.5-1.0 pt		8-16	Pre-boot to hard dough, treat when greenbug numbers are sufficient to cause death of more than two normal-size 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.	
Sorghum Midge	beta-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 and sorghum is still blooming, treat again.	14
	chlorpyrifos (R) Lorsban 4 E	0.5 pt	0.25	16		30
	Chlorpyrifos 4 EC	0.5 pt		16		
	dimethoate		0.125-0.25			28
	Dimethoate 4 E	0.25-0.5 pt		16-32		
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	2.9-5.8 oz	0.015-0.03	22-44		21
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167		30
	lambda-cyhalothrin (R) Karate Z 2.08 CS	0.96-1.28 oz	0.015-0.02	100-133		30
	Silencer/Lambda-Cy 1 EC	1.92-2.56 oz		50-66.7		
methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.6		14	
zeta-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	beta-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 budworms per plant may justify treatment. Use 20-30 gal per acre directed into whorls.	14
	carbaryl Sevin 80S	1.87-2.5 lb	1.5-2.0	2-2.7	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)
	Sevin XLR or 4F	3-4 pt				
esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21	

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Corn Earworm	gamma-cyhalothrin (R) Prolex 1.25 CS	1.02-1.54 oz	0.01-0.015	83-125		30
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	67-100 33.3-50		30
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.6		14
	spinosad Tracer 4 SC	1.5-3 oz	0.047-0.094	43-85		7 (grain) 14 (forage)
	zeta-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	2-2.7	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)
	methomyl (R) Lannate 2.4 LV	1.5 pt	0.22-0.45	5.3-10.6	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
	spinosad Tracer 4 SC	1.5-3.0 oz	0.047-0.94	43-85		7 (grain) 14 (forage)
Stink Bugs	beta-cyfluthrin (R) Baythroid XL 1 EC	1.3-2.8 oz	0.01-0.022	45.7-98.5		14
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	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
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.02-1.54 oz	0.01-0.015	83-125		30
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.28-1.92 oz 2.56-3.84 oz	0.02-0.03	67-100 33.3-50		30
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		14 (grain & forage) 45 (fodder)