

**SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2009**  
**(Barley, Wheat, Oats and Rye)**

	<b>Restricted Use (R)</b>	<b>Armyworm</b>	<b>Greenbug/Aphid</b>	<b>Grasshopper</b>	<b>Hessian Fly</b>	<b>Cereal Leaf Beetle</b>
Dimethoate			7	6		
Baythroid XL	X	8	8	7		7
Lannate	X	7	7	3		8
Malathion		3	6	6		8
Methyl Parathion	X	8	8	7		
Mustang Max/Respect	X	8	8	7		7
Proaxis	X	8	8	7		7
Sevin		6	0	6		7
Tracer		7	0	2		
Karate/Silencer/Lambda-Cy	X	8	8	7		7

**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.

**SMALL GRAIN INSECT CONTROL**  
(Barley, Wheat, Oats and Rye)

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days Last Application To		
						Harvest	Grazing	
<b>Armyworm Army Cutworms</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128		30	3	
	carbaryl Sevin 80 S Sevin XLR	1 1/4-1 7/8 lb 1-1 1/2 qt	1.0-1.5	2.7-4	Use higher rates of insecticides on larger worms.	21	7	
	gamma-cyhalothrin (R) Proaxis 0.5 CS	2.56-3.84 oz	0.01-0.015	33.3-50	Karate, Silencer, Proaxis, Baythroid, Respect and Mustang Max are not labeled on barley, oats or rye.	30		
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.28-1.92 fl oz 2.56-3.84 fl oz	0.02-0.03	66.7-100 33.3-50		30	7	
	methomyl (R) Lannate 2.4 LV	3/4-1 1/2 pt	0.22-0.45	5.3-10.6	<b>Armyworm Treatment Level:</b>	7	10	
	methyl parathion (R) Methyl 4 EC PennCap-M 2 E	1 pt 1 qt	0.5	8 4	Apply when larvae are present and head cutting is occurring after wheat has reached milk/soft dough stage. For fall infestation, treat when populations reach 6 larvae per square foot.	15	15	
	spinosad Tracer 4 E (wheat only)	1.5-3 oz	0.04-0.09	42.6-85		21	14	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.76-4.0 oz	0.011-0.025	32-72.7		14	14	
	<b>Greenbug and Other Aphids</b>	dimethoate Dimethoate 4 E (wheat only)	3/4 pt	0.375	10.6	<b>Greenbug Treatment Level:</b>	60	14
		malathion Fyfanon 5 lb	1 1/2-2 pt	1.0-1.25	4-5.3	Number per Plant Height Linear Foot of Drill 4-6 inches 50 6-10 inches 200 18-20 inches 300 30+ inches 800	7	7
methomyl (R) Lannate 2.4 LV		3/4-1 1/2 pt	0.225-0.45	5.3-10.6	For broadcast wheat, use a square foot measurement and double the numbers above.	7	10	
methyl parathion (R) Methyl 4 EC		1/2-1 pt	0.25-0.5	8-16	<b>Barley Yellow Dwarf Virus (BYD):</b> Controlling aphids in order to prevent BYD is not an economical practice. BYD outbreaks occur approximately 1 out of 10 years. The most effective method of preventing BYD is to avoid planting early, which increases the risk of developing fall BYD infections. <b>Other Aphids:</b> Other aphids seldom damage wheat even though they may be present in large numbers.	15	15	

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						Harvest	Grazing	
<b>Grasshoppers</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	1.8-2.4 oz	0.014-0.019	53.3-71	Apply when damage is occurring.	30	3	
	carbaryl Sevin 80 S Sevin XLR	0.6-1.87 lb 1-3 pt	0.5-1.5	2.7-8		21	7	
	dimethoate Dimethoate 4 E (wheat only)	3/4 pt	0.375	10.7		60	14	
	gamma-cyhalothrin (R) Proaxis 0.5 CS	2.56-3.84 oz	0.01-0.015	33.3-50		30		
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.28-1.92 fl oz 2.56-3.84 oz	0.02-0.03	66.7-100 33.3-50		30	7	
	malathion Fyfanon 5 lb	2 pt	1.25	4		7	7	
	methyl parathion (R) Methyl 4 EC	1 pt	0.5	8	Apply methyl parathion in minimum of 5 gallons per acre total volume.	15	15	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.76-4.0 oz	0.011-0.015	32-40		14	14	
	<b>Hessian Fly (Wheat)</b>	Preventative treatment for Hessian fly is not typically recommended in Arkansas. However, if the field is deemed at risk (e.g., an early planted susceptible cultivar), consider using Cruiser 5 FS seed treated at 1.3 fl oz per 100 lb seed.  Hessian fly can be controlled by cultural methods: <b>a.</b> Burn wheat stubble and disc under. <b>b.</b> Destroy volunteer wheat. <b>c.</b> Plant late in fall, mid October or early November. <b>d.</b> Plant resistant varieties.						
	<b>Cereal Leaf Beetle</b>	beta-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128	Proaxis, Karate, Silencer, Baythroid, Mustang Max and Respect are not labelled for use on barley, oats or rye.	30	3
		carbaryl Sevin 80 S Sevin XLR	1.25 lb 1 qt	1.0	4		Treat when an average of 1 beetle per stem is found.	21
gamma-cyhalothrin (R) Proaxis 0.5 CS		2.56-3.84 oz	0.01-0.015	33.3-50		30		
lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC		1.28-1.92 fl oz 2.56-3.84 fl oz	0.02-0.03	66.7-100 33-50		30	7	
methomyl (R) Lannate 2.4 LV		0.75-1.5 pt	0.22-0.45	5.3-10.7		7	10	
zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect		1.76-4.0 oz	0.011-0.025	32-72.7		14	14	