

SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2012
(Barley, Wheat, Oats and Rye)

Insecticide	Restricted Use (R)	Armyworm	Greenbug/Aphid	Grasshopper	Hessian Fly	Cereal Leaf Beetle
Dimethoate			7	6		
Baythroid XL	X	8	8	7		7
Lannate	X	7	7	3		8
Malathion/Fyfanon		3	6	6		8
Methyl Parathion	X	8	8	7		
Mustang Max/Respect	X	8	8	7		7
Proaxis/Declare	X	8	8	7		7
Sevin		6	0			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. Shaded boxes indicate products recommended for specific pests in this guide.

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	
Armyworm Army Cutworm	β -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 1/4-2 1/2 lb 1-2 qt	1.0-2.0	2.0-4.0	Use higher rates of insecticides on larger worms.	48	14	
	γ -cyhalothrin (R) Declare 1.25 CS Proaxis 0.5 CS	1.02-1.54 oz 2.56-3.84 oz	0.01-0.015	83-125.5 33.3-50	Karate, Silencer, Proaxis, Declare, Baythroid, Respect and Mustang Max are not labeled on barley, oats or rye.	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	7	
	methomyl (R) Lannate 2.4 LV	3/4-1 1/2 pt	0.22-0.45	5.3-10.6	Armyworm Treatment Level:	7	10	
	methyl parathion (R) Methyl 4 EC PennCap-M 2 E	1 1/2 pt 3 pt	0.75	5.3 2.7	For fall infestation, treat when populations reach 6 larvae per square foot. Apply when larvae are present and head cutting is occurring after wheat has reached milk/soft dough stage. Consider application in heading wheat prior to the milk stage if most leaves are destroyed and larvae are observed in the panicles (>20 larvae/sq ft).	15	15	
	spinosad Tracer 4 E (wheat only)	1.5-3 oz	0.04-0.09	42.6-85		21	14	
	ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect	1.76-4.0 oz	0.011-0.025	32-72.7		14	14	
	Greenbug and Other Aphids	dimethoate Dimethoate 4 E (wheat only)	3/4 pt	0.375	10.6	Greenbug Treatment Level:	35	14
		malathion Fyfanon 5 lb (See generics, p. 26)	1 1/2 pt	1.0	5.3	Plant Height 4-6 inches 6-10 inches 18-20 inches 30+ inches Number per Linear Foot of Drill 50 200 300 800	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 1/2 pt	0.25-0.75	5.3-16	Barley Yellow Dwarf Virus (BYD): 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. Other Aphids: Other aphids seldom damage wheat even though they may be present in large numbers.	15	15	

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						Harvest	Grazing
Grasshopper	β-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
	dimethoate Dimethoate 4 E (wheat only)	3/4 pt	0.375	10.7		35	14
	γ-cyhalothrin (R) Proaxis 0.5 CS	2.56-3.84 oz	0.01-0.015	33.3-50	30		
	Declare 1.25 CS	1.02-1.54 oz		83-125.5			
	λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26)	1.28-1.92 fl oz	0.02-0.03	66.7-100	30	7	
	malathion Fyfanon 5 lb (See generics, p. 26)	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
ξ-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.76-4.0 oz	0.011-0.015	32-40	14		14	
Hessian Fly (Wheat)					Preventative treatment for Hessian fly is not typically recommended in Arkansas. Hessian fly can be controlled by cultural methods: a. Burn wheat stubble and disc under. b. Destroy volunteer wheat. c. Plant late in fall, mid October or early November. d. Plant resistant varieties.		
Cereal Leaf Beetle	β-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128	Proaxis, Karate, Silencer, Baythroid, Declare, Mustang Max and Respect are not labelled for use on barley, oats or rye.	30	3
	γ-cyhalothrin (R) Declare 1.25 CS	1.02-1.54 oz	0.01-0.015	83-125.5		30	
	Proaxis 0.5 CS	2.56-3.84 oz		33.3-50	Treat when an average of 1 beetle per stem is found.		
	λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26)	1.28-1.92 fl oz	0.02-0.03	66.7-100	30	7	
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.22-0.45	5.3-10.7	7	10	
ξ-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.76-4.0 oz	0.011-0.025	32-72.7	14	14		