

SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2017
(Barley, Wheat, Oats and Rye)

Insecticide	Chemistry	Restricted Entry Interval (hours)	Restricted Use (R)	Armyworm	Greenbug/Aphid	Grasshopper	Hessian Fly	Cereal Leaf Beetle
Cruiser	NEO	12			8		7	
Gaucho/Axcess/Senator	NEO	12			8		7	
NipsIt Inside	NEO	12			8		7	
Dimethoate	OP	48			7	6		
Baythroid XL	SyP	12	X	8	8	7		7
Lannate	Car	48	X	7	7	3		8
Malathion/Fyfanon	OP	12		3	6	6		8
Mustang Maxx/Respect	SyP	12	X	8	8	7		7
Proaxis/Declare	SyP	24	X	8	8	7		7
Sevin	Car	12		6	0			7
Blackhawk	SP	4		7	0	2		
Karate/Silencer/Lambda-Cy	SyP	24	X	8	8	7		7
Transform	SX	24			9			

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	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 1/4-2 1/2 lb 1-2 qt	1.0-2.0	2.0-4.0	Use higher rates of insecticides on larger worms.	48	14	
	gamma-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	Proaxis and Respect are not labeled on barley, oats or rye.	30		
	lambda-cyhalothrin (R) Karate Z 2.08 CS (See Generic Insecticides)	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	
	spinosad Blackhawk	1.67-3.3 oz	0.038-0.075		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).	21	when spray has dried	
	zeta-cypermethrin 0.8 EC (R) Mustang Maxx/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 Generic Insecticides)	1 1/2 pt	1.0	5.3	Number per Plant Height Linear Foot of Drill 4-6 inches 50 6-10 inches 200 10-20 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	
beta-cyfluthrin (R) Baythroid XL 1 EC		1.8-2.4 oz	0.014-0.019	53-71	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.	30	3	
gamma-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		30		
lambda-cyhalothrin (R) Karate Z 2.08 CS (See Generic Insecticides)		1.28-1.92 oz	0.02-0.03	66.7-100	Other Aphids: Other aphids seldom damage wheat even though they may be present in large numbers.	30	7	
zeta-cypermethrin 0.8 EC (R) Mustang Maxx/Respect		3.2-4.0 oz	0.02-0.025	32-40		14	14	

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
Grasshopper	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
	dimethoate Dimethoate 4 E (wheat only)	3/4 pt	0.375	10.7		35	14
	gamma-cyhalothrin (R) Proaxis 0.5 CS Declare 1.25 CS	2.56-3.84 oz 1.02-1.54 oz	0.01-0.015	33.3-50 83-125.5		30	
	lambda-cyhalothrin (R) Karate Z 2.08 CS (See Generic Insecticides)	1.28-1.92 fl oz	0.02-0.03	66.7-100		30	7
	malathion Fyfanon 5 lb (See Generic Insecticides)	1.6 pt	1	5		7	7
	zeta-cypermethrin 0.8 EC (R) Mustang Maxx/Respect	3.2-4.0 oz	0.02-0.025	32-40		14	14
	Hessian Fly (Wheat)	clothianidin NipsIt Inside 5 FS	1.79 oz/100 lb				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. e. Consider using a seed treatment (Cruiser, NipsIt, Gaucho) if wheat is planted early (prior to mid October). Seed treatments may help reduce Hessian fly in early plantings.
	imidacloprid Gaucho 600 F Axxess 5 F Senator 5 FS	1.2-2.4 oz/100 lb 1.2-2.4 oz/100 lb 1.2-2.4 oz/100 lb				45	
	thiamethoxam Cruiser 5 FS	0.75-1.33 oz/100 lb					
Cereal Leaf Beetle Treat when an average of 1 beetle per stem is found.	beta-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128	Proaxis and Respect are not labeled on barley, oats or rye.	30	3
	gamma-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		30	
	lambda-cyhalothrin (R) Karate Z 2.08 CS (See Generic Insecticides)	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
	zeta-cypermethrin 0.8 EC (R) Mustang Maxx/Respect	1.76-4.0 oz	0.011-0.025	32-72.7		14	14