SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2018
(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/Warrior	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	Minimum Days Last Application to Grazing
Armyworm Army Cutworm	beta-cyfluthrin (**R**)		0.008-0.014			30	3
	Baythroid XL 1 EC	1.0-1.8 oz		71-128			
	carbaryl		1.0-2.0		Use higher rates of insecticides on larger worms.	48	14
	Sevin 80 S	1 1/4-2 1/2 lb					
	Sevin XLR	1-2 qt		2.0-4.0			
	gamma-cyhalothrin (**R**)		0.01-0.015		Proaxis and Respect are not labeled on barley, oats or rye.	30	
	Declare 1.25 CS	1.02-1.54 oz		83-125.5			
	Proaxis 0.5 CS	2.56-3.84 oz		33.3-50			
	lambda-cyhalothrin (**R**)		0.02-0.03			30	7
	Warrior II 2.08 CS *(See Generic Insecticides)*	1.28-1.92 oz		66.7-100			
	methomyl (**R**)		0.22-0.45		**Armyworm Treatment Level:**	7	10
	Lannate 2.4 LV	3/4-1 1/2 pt		5.3-10.6	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).		
	spinosad		0.038-0.075			21	when spray has dried
	Blackhawk	1.67-3.3 oz					
	zeta-cypermethrin 0.8 EC (**R**)		0.011-0.025			14	14
	Mustang Maxx/Respect	1.76-4.0 oz		32-72.7			
Greenbug and Other Aphids	dimethoate		0.375		**Greenbug Treatment Level:**	35	14
	Dimethoate 4 E (wheat only)	3/4 pt		10.6	Plant Height: Number per Linear Foot of Drill 4-6 inches: 50 6-10 inches: 200 10-20 inches: 300 30+ inches: 800		
	malathion		1.0			7	7
	Fyfanon 5 lb *(See Generic Insecticides)*	1 1/2 pt		5.3			
	methomyl (**R**)		0.225-0.45		For broadcast wheat, use a square foot measurement and double the numbers above.	7	10
	Lannate 2.4 LV	3/4-1 1/2 pt		5.3-10.6			
	beta-cyfluthrin (**R**)		0.014-0.019		**Barley Yellow Dwarf Virus (BYD):** The most effective method of preventing BYD is to avoid planting early, which increases the risk of developing fall BYD infections. If planting early, using an insecticide seed treatment or a foliar application in late fall or early spring may reduce incidence of BYD.	30	3
	Baythroid XL 1 EC	1.8-2.4 oz		53-71			
	gamma-cyhalothrin (**R**)		0.01-0.015			30	7
	Declare 1.25 CS	1.02-1.54 oz		83-125.5			
	Proaxis 0.5 CS	2.56-3.84 oz		33.3-50			
	lambda-cyhalothrin (**R**)		0.02-0.03		**Other Aphids:** Other aphids seldom damage wheat even though they may be present in large numbers.	30	7
	Warrior Z 2.08 CS *(See Generic Insecticides)*	1.28-1.92 oz		66.7-100			
	sulfaxaflor		0.023-0.047		If blooming vegetation is present 12 feet out from the downwind edge of the field, a 12-foot in-field buffer must be observed.	14	7
	Transform 50WG	0.75-1.5 oz					
	zeta-cypermethrin 0.8 EC (**R**)		0.02-0.025			14	14
	Mustang Maxx/Respect	3.2-4.0 oz		32-40			

SMALL GRAIN INSECT CONTROL
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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days Last Application to Harvest	Minimum Days Last Application to Grazing
Grasshopper	beta-cyfluthrin (**R**)		0.014-0.019		Apply when damage is occurring.	30	3
	Baythroid XL 1 EC	1.8-2.4 oz		53.3-71			
	dimethoate		0.375			35	14
	Dimethoate 4 E (wheat only)	3/4 pt		10.7			
	gamma-cyhalothrin (**R**)		0.01-0.015			30	7
	Proaxis 0.5 CS	2.56-3.84 oz		33.3-50			
	Declare 1.25 CS	1.02-1.54 oz		83-125.5			
	lambda-cyhalothrin (**R**)		0.02-0.03			30	7
	Warrior II 2.08 CS *(See Generic Insecticides)*	1.28-1.92 fl oz		66.7-100			
	malathion		1			7	7
	Fyfanon 5 lb *(See Generic Insecticides)*	1.6 pt		5			
	zeta-cypermethrin 0.8 EC (**R**)		0.02-0.025			14	14
	Mustang Maxx/Respect	3.2-4.0 oz		32-40			
Hessian Fly (Wheat)	clothianidin				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.		45
	NipsIt Inside 5 FS	1.79 oz/100 lb					
	imidacloprid						
	Gaucho 600 F	1.2-2.4 oz/100 lb					
	Axcess 5 F	1.2-2.4 oz/100 lb					
	Senator 5 FS	1.2-2.4 oz/100 lb					
	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**)		0.008-0.014		Proaxis and Respect are not labeled on barley, oats or rye.	30	3
	Baythroid XL 1 EC	1.0-1.8 oz		71-128			
	gamma-cyhalothrin (**R**)		0.01-0.015			30	
	Declare 1.25 CS	1.02-1.54 oz		83-125.5			
	Proaxis 0.5 CS	2.56-3.84 oz		33.3-50			
	lambda-cyhalothrin (**R**)		0.02-0.03			30	7
	Warrior II 2.08 CS *(See Generic Insecticides)*	1.28-1.92 fl oz		66.7-100			
	methomyl (**R**)		0.22-0.45			7	10
	Lannate 2.4 LV	0.75-1.5 pt		5.3-10.7			
	zeta-cypermethrin 0.8 EC (**R**)		0.011-0.025			14	14
	Mustang Maxx/Respect	1.76-4.0 oz		32-72.7			