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/Poncho	NEO	12			8		7	
Dimethoate	OP	48			7	6		
Baythroid XL	SyP	12	Х	8	8	7		7
Lannate	Car	48	Х	7	7	3		8
Malathion/Fyfanon	OP	12		3	6	6		8
Mustang Maxx/Respect	SyP	12	Х	8	8	7		7
Proaxis/Declare	SyP	24	Х	8	8	7		7
Sevin	Car	12		6	0			7
Blackhawk	SP	4		7	0	2		
Karate/Silencer/Lambda-Cy/Warrior	SyP	24	Х	8	8	7		7
Transform	SX	24			9			

SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2025 (Barley, Wheat, Oats and Rye)

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.

QUICK VIEW THRESHOLD GUIDE

Insect	Threshold	Scouting Procedure
Armyworm, Army Cutworm	Fall infestation: 6 larvae per square foot. Spring infestation: Head cutting and larvae present.	Inspect area at base of plants under leaves and debris in 4 spots in the field.
Cereal Leaf Beetle	1 beetle per stem.	Examine 25 plants in 4 spots (100/field)
Grasshopper	When substantial damage is occurring.	Examine plants in 4 spots in field.
Greenbug	Plants up to 6 inches – 50 per row foot. 6 to 10 inches – 200 per row foot. 10 to 20 inches – 300 per row foot. 30+ inches – 800 per row foot.	Examine plants in 4 spots in field.

SMALL GRAIN INSECT CONTROL

(Barley, Wheat, Oats and Rye)

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest (PHI)	Restricted Entry Interval (REI) Hours
Armyworm Army Cutworm	beta-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128		30 (grain) 3 (grazing)	12
For fall infestation, treat when populations reach 6 larvae per square	carbaryl Sevin XLR or 4F	1-2 qt	1-2	2-4		48 (grain) 14 (grazing)	12 12
foot. Apply when larvae are present and head cutting is occurring after wheat	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	Labeled on wheat only. Labeled on wheat only.	14 14	24 24
has reached milk/soft dough stage. Consider application in heading	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 oz	0.015-0.025	67-100		14	24
wheat prior to milk stage if most leaves are destroyed and	spinosad Blackhawk	1.7-3.3 oz	0.038-0.075			21 (grain) 0 (grazing	4
larvae are observed in the panicles (>20 larvae/sq ft.).	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	1.76-4.0 oz	0.011-0.025	32-73		14	12
and Other Aphids	The most effective method of pr es the risk of developing fall BY treatment or foliar application in	D infections. If planting	early, using an	insecticide seed	Number perPlant HeightLinear Foot of Drill4-6 inches506-10 inches20010-20 inches30030+ inches800		
	dimethoate Dimethoate 4 E	0.75 pt	0.375	10.6	Labeled on wheat only.	35 (grain) 14 (grazing)	48
	malathion Fyfanon 5 lb	1.5 pt	1	5.3		7	12
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.8-2.4 oz	0.014-0.019	53-71		30 (grain) 3 (grazing)	12
	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		14 14	24 24
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 oz	0.015-0.025	67-100		14	24
	sulfaxaflor Transform 50 WG	0.75-1.5 oz	0.023-0.047		Do not make more than 2 applications per crop.	14 (grain) 7 (grazing	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	3.2-4.0 oz	0.02-0.025	32-40		14	12

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SMALL GRAIN

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

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest (PHI)	Restricted Entry Interval (REI) Hours
Grasshopper	beta-cyfluthrin (R) Baythroid XL 1 EC	1.8-2.4 oz	0.014-0.019	53-71		30 (grain) 3 (grazing)	12
Treat when damage is occurring.	dimethoate Dimethoate 4 E	0.75 pt	0.375	10.6	Labeled on wheat only.	35 (grain) 14 (grazing)	48
	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	33-50 83-125	Labeled on wheat only. Labeled on wheat only.	14 14	24 24
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 fl oz	0.015-0.025	67-100		14	24
	malathion Fyfanon 5 EC <i>(See Generic Insecticides)</i>	1.5 pt	1	5.3		7	12
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC <i>(See Generic Insecticides)</i>	3.2-4.0 oz	0.02-0.025	32-40		14	12
Hessian Fly	At planting treatments:				Preventative treatment for Hessian fly is not typically		
(Wheat)	clothianidin Nipslt Inside 5 FS Poncho 600	1.79 oz/100 lb seed 1.79 oz/100 lb seed			recommended in Arkansas. Hessian fly can be controlled by cultural methods: a. Burn wheat stubble and disc under. b. Destroy volunteer wheat.		12
	imidacloprid Gaucho 600 F Axcess 5 F Senator 5 FS	1.2-2.4 oz/100 lb seed 1.2-2.4 oz/100 lb seed 1.2-2.4 oz/100 lb seed			 c. Plant late in fall, mid October or early November. d. Plant resistant varieties. e. Consider a seed treatment if wheat is planted early. 		12 12 12
	thiamethoxam Cruiser 5 FS	0.75-1.33 oz/100 lb					12
	Foliar Applied Treatments:				Foliar treatments should only be used on early planted		
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 oz	0.015-0.03	66.7-100	wheat if an insecticide seed treatment was not used. Target adults and/or eggs shortly after plants emerge (2-3 leaf stage).	14	24
	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		14	24
Cereal Leaf Beetle	beta-cyfluthrin (R) Baythroid XL 1 EC	1.0-1.8 oz	0.008-0.014	71-128		30 (grain) 3 (grazing)	12
Treat when an average of 1 beetle per stem is found.	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	33-50 83-125	Labeled on wheat only. Labeled on wheat only.	14 14	24 24
	lambda-cyhalothrin (R) Warrior II 2.08 CS <i>(See Generic Insecticides)</i>	1.28-1.92 fl oz	0.015-0.025	67-100		14	24
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC (See Generic Insecticides)	1.76-4.0 oz	0.011-0.025	32-73		14	12