SMALL GRAIN INSECTICIDE PERFORMANCE RATING, 2024 (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/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			

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 (See Generic Insecticides)	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 (See Generic Insecticides)	1.76-4.0 oz	0.011-0.025	32-73		14	12
Greenbug and Other Aphids	Barley Yellow Dwarf Virus (B) The most effective method of pr es the risk of developing fall BY treatment or foliar application in	eventing BYD is to avo D infections. If planting	early, using an	insecticide seed	Plant Height Linear Foot of Drill 4-6 inches 50 6-10 inches 200 10-20 inches 300 30+ inches 800		
	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 (See Generic Insecticides)	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 (See Generic Insecticides)	3.2-4.0 oz	0.02-0.025	32-40		14	12

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 (See Generic Insecticides)	1.28-1.92 fl oz	0.015-0.025	67-100		14	24
	malathion Fyfanon 5 EC (See Generic Insecticides)	1.5 pt	1	5.3		7	12
	zeta-cypermethrin (R) Mustang Maxx 0.8 EC (See Generic Insecticides)	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 NipsIt 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 (See Generic Insecticides)	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 (See Generic Insecticides)	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