

Field Crops

Department of Entomology

SOYBEAN INSECT CONTROL RECOMMENDATIONS

Christian H. Krupke and John L. Obermeyer, Extension Entomologists

Read and Follow ALL Label Rate, Application, and Use Directions

This publication is intended to aid pest managers in treating pest infestations in soybean during the growing season and in situations where replanting is needed. Consequently, many current preventative pest management decisions that are made pre-planting (e.g., seed-applied insecticides) are not included in this list.

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Beetles: (Bean Leaf Beetle, Japanese Beetle, Mexican Bean Beetle, Blister Beetles)	alpha-cypermethrin*	Fastac	21	3	Prebloom: when greater than 30% defoliation. Blooming to pod fill: when greater than 10% defoliation. Full pod to maturity; when greater than 15% defoliation. Pod feeding: when approximately 5% or more of the marketable pods are damaged, and there are 10 or more beetles per foot of row.	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Capture, generics	18	3		
	carbaryl	Generics	21	1A		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	esfenvalerate*	Asana, generics	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro, generics	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A			
chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3			
imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A			
lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A			

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Caterpillars: (Green Clover-worm, Thistle Caterpillar, Woollybear)	alpha-cypermethrin*	Fastac	21	3	Prebloom: when greater than 30% defoliation. Blooming to pod fill: when greater than 10% defoliation. Full pod to maturity: when greater than 15% defoliation.	
	Bacillus thuringiensis	Dipel, Javelin, generics	0	11A		
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Generics	21	1A		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	esfenvalerate*	Asana, generics	21	3		
	flubendiamide	Belt	14	28		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	indoxacarb	Steward	21	22		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	methoxyfenozide	Intrepid	7	18		
	permethrin*	Pounce, generics	60	3A		
	spinetoram	Delegate, Radiant	28	5		
	spinosad	Entrust, Tracer, generics	28	5		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
		beta-cyfluthrin; imidacloprid*	Leverage	45		3;4A
		bifenthrin;acetamiprid*	Argyle, Punisher	30		3;4A
		bifenthrin;imidacloprid*	Brigadier, Swagger, others	18		3;4A
		chlorantraniliprole; lambda-cyhalothrin*	Besiege	30		28;3
		imidacloprid;lambda-cyhalothrin*	Kilter	30		3;4A
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
Cutworms	alpha-cypermethrin*	Fastac	21	3	When cutworms are numerous and actively feeding, and stand counts are nearing the lower end of the scale in regard to plant population necessary to achieve good yields.	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Generics	21	1A		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	esfenvalerate*	Asana, generics	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro, generics	21	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		

3 Soybean Insect Control Recommendations — E-77-W

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Cutworms (Con't.)	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
Grasshoppers	alpha-cypermethrin*	Fastac	21	3	Prebloom: when greater than 30% defoliation. Blooming to pod fill: when greater than 10% defoliation. Full pod to maturity: when greater than 15% defoliation. Pod feeding: when approximately 10% of the pods are damaged, pods are green, and grasshoppers are actively feeding. USUALLY ONLY BORDER ROWS REQUIRE TREATMENT	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Generics	21	1A		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
Potato Leafhopper	alpha-cypermethrin*	Fastac	21	3	Early vegetative stages: 2 leafhoppers per plant. Flowering: 1 leafhopper per trifoliolate leaf. Pod development: 2 leafhoppers per trifoliolate.	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	dimethoate	Dimethoate, generics	21	1B		
	esfenvalerate*	Asana, generics	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro	21	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		

Soybean Insect Control Recommendations — E-77-W 4

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Potato Leafhopper (Con't.)	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
Seed/Seedling Feeders (mag-gots, grubs, wireworms)	clothianidin	Nipsit Inside, others	-	4A	No rescue treatments are available. Use/apply seed treatments if replanting into damaged field areas and pests are still present.	
	Imidacloprid	Acceleron, others	-	4A		
	permethrin	Kernel Guard Supreme	-	3		
	thiamethoxam	Crusier	-	4A		
Slugs	metaldehyde	Deadline Bullets, others	-		Spread bait evenly across damaged area if plants are significantly defoliated and stand is threatened. Use high rate for severe infestations.	
	iron phosphate (OMRI listed)	Ferroxx, Sluggo				
Soybean Aphid	alpha-cypermethrin*	Fastac	21	3	Average of 250, or more, aphids per plant from beginning bloom to full pod. If aphids are increasing well beyond 250 per plant during seed fill and plants are under moisture stress with few predators or diseased aphids present, then controls should be considered at this later growth stage.	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro, generics	21	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	sulfoxaflor	Transform	7	4C		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin; imidacloprid*	Leverage	21	3;4A		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A			
Soybean Thrips	beta-cyfluthrin*	Baythroid	21	3	Treat during dry weather with more than 75% of the trifoliolates mottled, and more than 8 thrips per leaf present.	
	bifenthrin*	Generics	18	3		
	cyfluthrin*	Tombstone	45	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro, generics	21	4A		

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Soybean Thrips (Con't.)	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
Stink Bugs	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A	Treat during dry weather with more than 75% of the trifoliolate mottled, and more than 8 thrips per leaf present.	
	beta-cyfluthrin*	Baythroid	21	3		
	bifenthrin*	Generics	18	3		
	cyfluthrin*	Tombstone	45	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Admire Pro, generics	21	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, generics	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger, others	18	3;4A		
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		
chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3			
imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A			
lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A			
Twospotted Spider Mite	abamectin	Agri-Mek, others	28	6	If leaf discoloration is apparent, mites are positively identified, and hot, dry conditions are expected to persist, a control may be considered. If caught early, border treatments may be an option because infestations often begin in the field margins.	
	bifenazate	Acramite, Engulf, others	3	20D		
	bifenthrin	Bifenture EC, Brigade 2EC, Capture LFR, Discipline 2EC, Fanfare 2EC, Sniper, Tundra EC, generics	18	3A		
	dimethoate	Dimethoate, Dimate	21	1B		
	etoxazole	Stifle, Zeal Pro	<R6	10B		
	fenpyroximate	Portal	1	21A		
	Pre-Mixes					
	bifenthrin;acetamiprid*	Argyle, Punisher	30	3;4A		

*Restricted Use Product.

¹Mode of Action: Insecticides are classified based on their target site. Using different, and combined, modes of action may delay insect resistance to insecticide groups. More specific information can be found at IRAC: <www.irac-online.org>.

READ AND FOLLOW ALL LABEL INSTRUCTIONS. THIS INCLUDES DIRECTIONS FOR USE, PRECAUTIONARY STATEMENTS (HAZARDS TO HUMANS, DOMESTIC ANIMALS, AND ENDANGERED SPECIES), ENVIRONMENTAL HAZARDS, RATES OF APPLICATION, NUMBER OF APPLICATIONS, REENTRY INTERVALS, HARVEST RESTRICTIONS, STORAGE AND DISPOSAL, AND ANY SPECIFIC WARNINGS AND/OR PRECAUTIONS FOR SAFE HANDLING OF THE PESTICIDE.

May 2023

It is the policy of the Purdue University Cooperative Extension Service that all persons have equal opportunity and access to its educational programs, services, activities, and facilities without regard to race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability or status as a veteran. Purdue University is an Affirmative Action institution. This material may be available in alternative formats.

This work is supported in part by Extension Implementation Grant 2017-70006-27140/ IND011460G4-1013877 from the USDA National Institute of Food and Agriculture.