

Field Crops

Department of Entomology

SOYBEAN INSECT CONTROL RECOMMENDATIONS

Christian H. Krupke, John L. Obermeyer and Larry W. Bledsoe, 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 40% defoliation. Blooming to pod fill: when greater than 15% defoliation. Full pod to maturity; when greater than 25% 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*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		
	chlorpyrifos*	Lorsban, generics	28	1B		
	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	Prey, generics	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Ambush, Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin;imidacloprid*	Leverage	45	3;4A		
bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B			
bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A			

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) (Con't.)	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
	lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C		
Caterpillars: (Green Cloverworm, Thistle Caterpillar, Woollybear)	alpha-cypermethrin*	Fastac	21	3	Prebloom: when greater than 40% defoliation. Blooming to pod fill: when greater than 15% defoliation. Full pod to maturity: when greater than 25% defoliation.	
	Bacillus thuringiensis	Dipel, Javelin, generics	0	11A		
	beta-cyfluthrin*	Baythroid	45	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		
	chlorpyrifos*	Lorsban, generics	28	1B		
	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*	Ambush, Pounce, generics	60	3A		
	spinetoram	Delegate, Radiant	28	5		
	spinosad	Tracer, generics	28	5		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3			

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Caterpillars: (Green Clover-worm, Thistle Caterpillar, Woollybear) (Con't.)	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin;thiamethoxam*	Endigo	30	3;4A		
	lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C		
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	45	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		
	chlorpyrifos*	Lorsban, generics	28	1B		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	esfenvalerate*	Asana, generics	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	imidacloprid	Prey	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Ambush, Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin;imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole;lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3			

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Cutworms (Con't.)	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
	lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C		
Grasshoppers	alpha-cypermethrin*	Fastac	21	3	Prebloom: when greater than 40% defoliation. Blooming to pod fill: when greater than 15% defoliation. Full pod to maturity: when greater than 25% 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	45	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		
	chlorpyrifos*	Lorsban, generics	28	1B		
	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		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A			
lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C			
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	45	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Potato Leaf-hopper (Con't.)	chlorpyrifos*	Lorsban, generics	28	1B		
	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	Prey	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	permethrin*	Ambush, Pounce, generics	60	3A		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin;imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole;lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3		
imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A			
lambda-cyhalothrin;thiamethoxam*	Endigo	30	3;4A			
lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C			
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, Kickstart	-	3		
	thiamethoxam	Crusier	-	4A		
Slugs	metaldehyde	Deadline MPs	-		Spread bait evenly across damaged area if plants are significantly defoliated and stand is threatened. Use high rate for severe infestations.	

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
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	45	3		
	bifenthrin*	Generics	18	3		
	chlorpyrifos*	Lorsban, generics	28	1B		
	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	Prey	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	sulfoxaflor	Transform	7	4C		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	acetamiprid;bifenthrin*	Justice	30	4A;3		
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3			
lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A			
lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C			
Soybean Thrips	beta-cyfluthrin*	Baythroid	45	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	Prey	7	4A		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline	
Soybean Thrips (Con't.)	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		
	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3		
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A		
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A		
	lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C		
Stink Bugs	alpha-cypermethrin*	Fastac	21	3	Sample field with a sweep net. Commercial: 40 stink bugs per 100 sweeps and pods are still green. Seed: 20 stink bugs per 100 sweeps and pods are still green.	
	beta-cyfluthrin*	Baythroid	45	3		
	bifenthrin*	Generics	18	3		
	carbaryl	Sevin, generics	14	1A		
	chlorpyrifos*	Lorsban, generics	28	1B		
	cyfluthrin*	Tombstone	45	3		
	deltamethrin*	Delta Gold	21	3		
	esfenvalerate*	Asana, generics	21	3		
	gamma-cyhalothrin*	Declare, Proaxis	45	3		
	lambda-cyhalothrin*	Warrior II, generics	30	3		
	zeta-cypermethrin*	Mustang Max, Respect	21	3		
	Pre-Mixes					
	beta-cyfluthrin; imidacloprid*	Leverage	45	3;4A		
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B		
	bifenthrin;imidacloprid*	Brigadier, Swagger	18	3;4A		
	bifenthrin;zeta-cypermethrin*	Hero, Steed	21	3;3		
	chlorantraniliprole; lambda-cyhalothrin*	Besiege	30	28;3		
	chlorpyrifos;gamma-cyhalothrin*	Cobalt, Bolton	30	1B;3		
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3		
	chlorpyrifos;zeta-cypermethrin*	Stallion	28	3;3		

Pest	Active Ingredient(s)	Trade Name(s)	Pre-Harvest Interval (days)	MoA ¹	Treatment Guideline
Stink Bugs (Con't.)	diflubenzuron;lambda-cyhalothrin*	DoubleTake	30	15;3	
	imidacloprid;lambda-cyhalothrin*	Kilter	30	3;4A	
	lambda-cyhalothrin; thiamethoxam*	Endigo	30	3;4A	
	lambda-cyhalothrin;sulfoxaflor*	Seeker	30	3A;4C	
Twospotted Spider Mite	chlorpyrifos*	Lorsban, generics	28	1B	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.
	dimethoate	Dimethoate, generics	21	1B	
	bifenthrin;chlorpyrifos*	Tundra Supreme	28	3;1B	
	chlorpyrifos;lambda-cyhalothrin*	Cobalt Advanced	30	1B;3	

*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.irc-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.

August 2017

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.