

SOYBEAN INSECTICIDE PERFORMANCE RATING, 2009

Rating Scale: 0 = no control 10 = excellent	Restricted Use (R)	Stem Feeders		Defoliators									Defoliator and Pod Feeder				Pod Feeders	
		Cutworms	Threecornered Alfalfa Hopper	Blister Beetles	Garden Webworms	Grasshoppers	Green Cloverworms	Saltmarsh Caterpillar	Cabbage Loopers	Soybean Loopers	Spider Mites	Velvetbean Caterpillar	Bean Leaf Beetle	Beet Armyworm	Yellowstriped Fall Armyworm	Corn Earworm	Green Stink Bugs	Brown Stink Bug
Ambush/Pounce	X	-	7	6	7	6	8	4	6	2	0	8	7	3	7	8	5	5
Asana XL	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	7	5
<i>Bacillus thuringiensis</i>		0	0	0	5	0	8	3	6	6	0	8	0	2	-	2	0	0
Baythroid XL	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	7	5
Brigade	X	9	9	8	8	7	9					9				8	8	8
Cruiser			7									5						
Cobalt	X	8	8	7	8	8	9	5	7	3	4	9	7	5	7	8	7	5
Dimethoate		0	6	5	5	7	3	1	2	2	4	3	8	2	4	2	8	4
Endigo	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	8	8
Gaicho			5									5						
Intrepid					8		8	8		8		8		8	8	7		
Karate/Silencer/Lambda-Cy	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	7	5
Lannate 2.4LV	X	2	5	5	8	6	9	4	7	7	0	9	6	7	7	8	7	5
Larvin 3.2 F	X	5	2	2	8	5	9	5	8	8	0	9	8	7	7	8	3	2
Lorsban 4E	X	8	4	4	5	8	7	2	4	3	4	7	5	5	5	5	6	4
Methyl Parathion	X	2	4	7	6	8	7	3	3	3	2	7	7	3	5	5	8	8
Mustang Max/Respect	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	7	6
Orthene/Acephate	X	-	-	-	-	8	-	-	7	-	-	-	-	-	-	-	8	8
PennCap-M	X	2	4	7	6	8	7	3	3	3	2	7	7	3	5	5	8	8
Prolex	X	8	8	7	8	7	9	5	7	3	0	9	7	3	7	8	7	5
Sevin		5	3	8	3	7	8	5	1	1	0	8	8	3	6	6	5	4
Steward		9	0	0	8	0	9	5	9	8	0	4		8	8	8	1	1
Tracer	X	7	0	0	8	2	9	5	9	8	0	9	3	8	7	8	1	1

The performance ratings in the chart are for comparison purposes only and are not necessarily a measure of percent control.

Equivalent Economic Threshold Conversion Between Drop Cloth and Sweepnet				
Sampling Method Used at Four Random Areas Per 40 Acres				
Insect	Drop Cloth (at least 8 shakes)	Sweepnet (at least four 25-sweep samples)		
	Number/Foot of Row	Number/25 Sweeps	Number/50 Sweeps	Number/100 Sweeps
Stink bugs	1	9	18	36
Soybean looper, cabbage looper, velvetbean caterpillar, green cloverworm, armyworm complex ¹	6	29	58	116
Corn earworm ²	4	15	30	60

¹Threshold numbers in association with 40 percent defoliation before bloom and 25 percent after bloom. Number represents medium and large larvae.
²Corn earworm is difficult to sample with sweepnet; sweep deeper into the canopy using extra force. Supplement with visual checks for bloom and pod feeding.

SOYBEAN INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest	
STEM FEEDERS Cutworms	beta-cyfluthrin (R) Baythroid XL 1 EC	0.8-1.6 oz	0.007-0.013	80-160		45	
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18	
	carbaryl Sevin 80 S Sevin XLR or 4 F	1 1/4-1 7/8 lb 1-1 1/2 qt	1.0-1.5	2.7-4	Treat when infestation threatens to reduce stand to less than 4-6 plants per row foot.	21	
	chlorpyrifos 4 E (R) Lorsban/Chlorpyrifos	1-2 pt	0.5-1.0	4-8		28	
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21	
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167		45	
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30	
	indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21	
	thiodicarb (R) Larvin 3.2 F	1.25-1.9 pt	0.5-0.75	4.3-6.4	Do not feed forage, hay or straw treated with Larvin. Use minimum 3 gal by air and 15 gal by ground finish spray.	28	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21	
	Threecornered Alfalfa Hopper	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80	Damage usually occurs when plants are less than 10 inches tall. Apply when 50% of the plants are girdled or if fewer than 4-6 ungirdled plants per row foot remain in conventional rows, 30-38 inches, and hopper nymphs are still present.	45
		esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
		gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167		45
lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC		0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30	
imidacloprid Gaucho 600		1.6 oz/100 lb seed			Seed treatment		
thiamethoxam Cruiser 5 FS		1.28 oz/100 lb seed			Seed treatment		
zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect		1.28-4.0 oz	0.008-0.025	32-100		21	

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest	
DEFOLIATORS Blister Beetles	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45	
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18	
	carbaryl Sevin XLR or 4 F Sevin 80 S	1-2 pt 0.625-1.25 lb	0.5-1.0	4-8	Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs.	21	
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.8-0.96 oz	0.0125-0.015	83-100		45	
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.6-1.92 oz 3.2-3.84 oz	0.025-0.03	67-80 33.3-40		30	
	methyl parathion (R) Methyl 4 EC PennCap-M 2	0.75-2.0 pt 2-3 pt	0.375-1.0	4-10 2.7-4		20	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21	
	Garden Webworms	<i>Bacillus thuringiensis</i>	Check label.				
		beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45
		bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
		gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167	Before bloom treat when 40% defoliation occurs. After bloom treat when 25% defoliation occurs.	45
		indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21
lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC		0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30	
methyl parathion (R) Methyl 4 EC PennCap-M 2		0.75-2.0 pt 2-3 pt	0.375-1.0	4-10.7 2.7-4		20	
methoxyfenozide Intrepid 2 F		4-8 oz	0.0625-0.125	16-32		14	
zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect		1.28-4.0 oz	0.008-0.025	32-100		21	
Grasshoppers		beta-cyfluthrin (R) Baythroid XL 1 EC	2.0-2.8 oz	0.016-0.022	45-64		45
		bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
		carbaryl Sevin 80 S Sevin XLR or 4 F	1.25 lb 1 qt	1.0	4	Before bloom treat when 40% defoliation occurs. After bloom treat when 25% defoliation occurs.	21

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
Grasshoppers (cont.)	chlorpyrifos (R) Lorsban 4 E	0.5-1.0 pt	0.25-0.5	4-8		28
	diflubenzuron (R) Dimilin 2 L	2 oz	0.031	64	Apply Dimilin when majority of grasshoppers have reached the 2nd to 3rd nymphal stage. Dimilin is not effective against adults.	21
	dimethoate Dimethoate 4 E	1 pt	0.5	8		21
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.8-0.96 oz	0.0125-0.015	83-100		45
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.6-1.92 oz 3.2-3.84 oz	0.025-0.03	67-80 33.3-40		30
	methyl parathion (R) Methyl 4 EC PennCap-M 2	2 pt 2 qt	1.0	4 2		20
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21
	Green Cloverworms	beta-cyfluthrin (R) Baythroid XL 1 EC	0.8-1.6 oz	0.007-0.013	80-160	
bifenthrin (R) Brigade 2 EC		2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
carbaryl Sevin 80 S Sevin XLR or 4 F		0.67-1.25 lb 1-2 pt	0.5-1.0	4-8	Green cloverworms at low to moderate populations are considered beneficial because they serve as food sources for beneficial insects. Use defoliation threshold levels for other defoliators as guidelines.	21
esfenvalerate 0.66 EC (R) Asana XL/Adjourn		2.9-5.8 oz	0.015-0.03	22-44		21
gamma-cyhalothrin (R) Prolex 1.25 CS		0.77-1.28 oz	0.0075-0.0125	100-167	Before bloom treat when 40% defoliation occurs. After bloom treat when 25% defoliation occurs.	45
indoxacarb Steward 1.25 SC		4.6-11.3 oz	0.045-0.11	11.5-28		21
lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC		0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30
methomyl (R) Lannate 2.4 LV		0.4-0.75 pt	0.12-0.225	10.7-20		14
methoxyfenozide Intrepid 2 F		4-8 oz	0.06-0.125	16-32		14
methyl parathion (R) PennCap-M 2 Methyl 4 EC		2 pt 1 pt	0.5	4 8		20

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
Green Cloverworms	permethrin (R) Ambush 2.0 E Pounce 3.2 E	3.2-6.4 oz 2-4 oz	0.05-0.1	20-40 32-64		60
	spinosad Tracer 4 SC	1-2 oz	0.031-0.062	64-128	Use sufficient volume to ensure good coverage. Do not apply more than 6 oz (0.186 lb) of Tracer per year. Do not feed treated forage to meat or dairy animals.	28
	thiodicarb (R) Larvin 3.2 F	10 oz	0.25	12.8		28
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21
	Saltmarsh Caterpillars	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80	
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
	carbaryl Sevin 80 S Sevin XLR or 4 F	1 1/4-1 7/8 lb 1-1 1/2 qt	1.0-1.5	2.7-4	Before bloom treat when 40% defoliation occurs. After bloom treat when 25% defoliation occurs.	21
	chlorpyrifos 4 EC (R) Lorsban/Chlorpyrifos	1-2 pt	0.5-1.0	4-8		28
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167		45
	indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21
	lambda-cyhalothrin (R) Karate Z 2.08 EC Silencer/Lambda-Cy 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14
	thiodicarb (R) Larvin 3.2 F	1.25-1.9 pt	0.5-0.75	4.3-6.4		28
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21
Soybean Loopers	<i>Bacillus thuringiensis</i>	Check label.			<i>Bacillus thuringiensis</i> works effectively against insecticide resistant or susceptible populations of soybean loopers and requires 3-4 days to kill larvae.	0
	indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21
	methomyl (R) Lannate 2.4 LV	1.5-3 pt	0.45-0.9	2.7-5.3		14
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
Soybean Loopers	spinosad Tracer 4 SC	1-2 oz	0.031-0.062	64-128	Before bloom, treat for 40% defoliation and insects present. After bloom, treat for 25% defoliation plus 6-8 large worms per row foot found when using a shake cloth.	28
	thiodicarb (R) Larvin 3.2 F	1.1-1.9 pt	0.45-0.75	4.3-7.1	Do not feed forage, hay or straw treated with Larvin.	28
Cabbage Loopers	acephate (R) Orthene/Acephate 90 S Orthene/Acephate 97 S	0.83-1.1 lb 0.75-1.0 lb	0.75-1.0		Do not apply more than 1.5 lb ai acephate per season.	14
	<i>Bacillus thuringiensis</i>	Check label.			<i>Bacillus thuringiensis</i> works effectively against insecticide resistant or susceptible populations of soybean loopers and requires 3-4 days to kill larvae.	0
	beta-cyhalothrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45.7-80		45
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
	indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30
	methomyl (R) Lannate 2.4 LV	1.5-3 pt	0.45-0.9	2.7-5.3		14
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14
	spinosad Tracer 4 SC	1-2 oz	0.031-0.062	64-128	Before bloom, treat for 40% defoliation and insects present. After bloom, treat for 25% defoliation plus 6-8 large worms per row foot found when using a shake cloth.	28
	thiodicarb (R) Larvin 3.2 F	1.1-1.9 pt	0.45-0.75	4.3-7.1	Do not feed forage, hay or straw treated with Larvin.	28
	Spider Mites	bifenthrin (R) Brigade 2 EC	5.12-6.4 oz	0.08-0.1	25-61	Do not apply more than 0.3 lb ai of Brigade per season.
chlorpyrifos 4 EC (R) Lorsban/Chlorpyrifos		1 pt	0.5	8	Two applications may be needed for control. Control is best using higher volumes. Total spray 15-20 gal per acre. Treat when spider mites are numerous.	28
dimethoate Dimethoate 4 E		1 pt	0.5	8		21
Velvetbean Caterpillar	<i>Bacillus thuringiensis</i>	Check label.				
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45
	carbaryl Sevin 80 S Sevin XLR or 4 F	2/3 lb 1 pt	0.5	8	Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs plus 6-8 larvae, 1/2 inch or larger, are found per row foot using a shake cloth.	21

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest	
Velvetbean Caterpillar	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	2.9-5.8 oz	0.015-0.03	22-44		21	
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30	
	methomyl (R) Lannate 2.4 LV	6.4 oz	0.125	20		14	
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14	
	methyl parathion (R) Methyl 4 EC Pennacp-M 2	1 pt 2 pt	0.5	8 4		20	
	permethrin (R) Ambush 2.0 E Pounce 3.2 E	3.2-6.4 oz 2-4 oz	0.05-0.1	20-40 32-64	Permethrin: Do not graze treated areas or harvest for forage or hay. Do not make more than 2 applications per season.	60	
	spinosad (R) Tracer 4 SC	1-2 oz	0.031-0.062	64-128	Use sufficient volume to ensure good coverage. Do not apply more than 6 oz (0.186 lb) of Tracer per year. Do not feed treated forage to meat or dairy animals.	28	
	thiodicarb (R) Larvin 3.2 F	10 oz	0.25	12.8		28	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100		21	
	DEFOLIATOR and POD FEEDER						
	Bean Leaf Beetle	acephate (R) Orthene/Acephate 97 S Orthene/Acephate 90S	0.75-1.0 lb 0.83-1.1 lb	0.73-0.97 0.73-0.97			14
		beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45
		bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
carbaryl Sevin 80 S Sevin XLR or 4 F		2/3 lb 1 pt	0.5	8	Before bloom treat when 40% defoliation occurs. After bloom treat when 25% defoliation occurs.	21	
dimethoate Dimethoate 4 E		1 pt	0.5	8		21	
esfenvalerate 0.66 EC (R) Asana XL/Adjourn		5.8-9.6 oz	0.03-0.05	13-22		21	
gamma-cyhalothrin (R) Prolex 1.25 CS		0.77-1.28 oz	0.0075-0.0125	100-167		45	
lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC		0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30	

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DEFOLIATOR and POD FEEDER						
Bean Leaf Beetle (cont.)	imidacloprid Gaucho 600	1.6 oz/100 lb seed			Gaucho and Cruiser will suppress early season bean leaf beetles.	
	thiamethoxam Cruiser 5 FS	1.28 oz/100 lb seed				
	methomyl (R) Lannate 2.4 LV	1-1.5 pt	0.3-0.45	5.3-8	14	
	methyl parathion (R) Methyl 4 EC PennCap-M 2	2 pt 2 qt	1.0	4 2	20	
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	1.28-4.0 oz	0.008-0.025	32-100	21	
Beet Armyworm	indoxacarb Steward 1.25 SC	4.6-11.3 oz	0.045-0.11	11.5-28	Before bloom, treat when 40% defoliation occurs and an active population. After bloom, treat when 25% defoliation occurs and an active population. Use higher rates on larger larvae. Fall armyworm infestations often occur in grassy fields.	21
	methomyl (R) Lannate 2.4 LV	1-1.5 pt	0.3-0.45	5.3-8		14
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14
	spinosad (R) Tracer 4 SC	1.5-2.0 oz	0.047-0.062	64-85		28
Yellow Striped Armyworm, Fall Armyworm	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80	Do not apply more than 0.3 lb ai of Brigade per season. Before bloom, treat when 40% defoliation occurs and an active population. After bloom, treat when 25% defoliation occurs and an active population. Use higher rates on larger larvae. Fall armyworm infestations often occur in grassy fields.	45
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61		18
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.28-1.54 oz	0.0125-0.015	83-100		30
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	1.6-1.92 fl oz 3.2-3.84 oz	0.025-0.03	69-83 33.3-40		30
	indoxacarb Steward 1.25 SC	4.6-11.3 oz	0.045-0.11	11.5-28		21
	methoxyfenozide Intrepid 2 F	4-8 oz	0.06-0.125	16-32		14
	spinosad (R) Tracer 4 SC	1.5-2.0 fl oz	0.047-0.062	64.5-85		28
	thiodicarb (R) Larvin 3.2 F	0.6-1.9 pt	0.25-0.75	4.3-12.8		28
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	3.2-4.0 oz	0.02-0.025	32-40		21

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
Corn Earworm	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
	carbaryl Sevin 80 S Sevin XLR or 4 F	1-2 lb 1-3 pt	0.5-1.5	2.7-5.3	Before bloom, treat when 40% defoliation occurs. After bloom, treat when population approaches an average of 4 or more larvae per row foot 1/2 inch or larger size on vigorously growing beans. For dryland beans under drought stress, treat when populations approach 3 larvae per row foot using a shake sheet.	21
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.77-1.28 oz	0.0075-0.0125	100-167		45
	lambda-cyhalothrin (R) Karate Z 2.08 CS Silencer/Lambda-Cy 1 EC	0.96-1.6 oz 1.92-3.2 oz	0.015-0.025	80-133 40-66.7		30
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22		21
	indoxacarb Steward 1.25 SC	5.6-11.3 oz	0.055-0.11	11.5-22.8		21
	methomyl (R) Lannate 2.4 LV	0.75-1.5 pt	0.225-0.45	5.3-10.7		14
	permethrin (R) Ambush 2.0 E Pounce 3.2 E	6.4-12.8 oz 4-8 oz	0.1-0.2	10-20 16-32	Permethrin: Do not graze treated areas or harvest for forage or hay. Do not make more than 2 applications per season.	60
	spinosad (R) Tracer 4 SC	1.5-2.0 oz	0.047-0.062	64-85	Use sufficient volume to ensure good coverage. Do not apply more than 6 oz (0.186 lb) of Tracer per year. Do not feed treated forage to meat or dairy animals.	28
	thiodicarb (R) Larvin 3.2 F	10-16 oz	0.25-0.4	8-12.8	Use higher rates of insecticides on large worms and closed canopy beans.	21
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	3.2-4.0 oz	0.02-0.025	32-40		21
	ROOT FEEDER Grape Colaspis	imidacloprid Gaucho 600	1.6 fl oz/100 lb seed			A seed treatment can be beneficial in areas where grape colaspis has historically been a problem.
	thiamethoxam Cruiser 5 FS	1.28 fl oz/100 lb seed				
POD FEEDER Green Stink Bug, Southern Green Stink Bug, Red Shouldered Stink Bug	acephate (R) Orthene/Acephate 90S Orthene/Acephate 97S	0.56-1.1 lb 0.50-1.0 lb	0.5-1.0		Do not exceed 1.5 lb ai acephate per acre per season.	14
	beta-cyfluthrin (R) Baythroid XL 1 EC	1.6-2.8 oz	0.013-0.022	45-80		45

SOYBEAN INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
POD FEEDER						
Green Stink Bug, Southern Green Stink Bug, Red Shouldered Stink Bug	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
	esfenvalerate 0.66 EC (R) Asana XL/Adjourn	5.8-9.6 oz	0.03-0.05	13-22	Treat into R7 physiology (beginning maturity), keeping application-to-harvest interval restrictions in mind.	21
	gamma-cyhalothrin (R) Prolex 1.25 CS	0.8-0.96 oz	0.0125-0.015	83-100		45
	lambda-cyhalothrin (R) Karate Z 2.08 CS	1.6-1.92 oz	0.025-0.03	67-80	Treat when an average of 1 stink bug per row foot is found using a shake sheet.	30
	Silencer/Lambda-Cy 1 EC	3.2-3.84 oz		33.3-40		20
	methyl parathion (R) Methyl 4 EC PennCap-M 2	1 pt 2 pt	0.5	8 4		
	zeta-cypermethrin 0.8 EC (R) Mustang Max/Respect	3.2-4.0 oz	0.02-0.025	32-40		21
Brown Stink Bug	acephate (R) Orthene/Acephate 90S Orthene/Acephate 97S	0.56-1.1 lb 0.5-1.0 lb	0.5-1.0		Do not exceed 1.5 lb ai acephate per acre per season.	14
	bifenthrin (R) Brigade 2 EC	2.1-6.4 oz	0.033-0.1	20-61	Do not apply more than 0.3 lb ai of Brigade per season.	18
	lambda-cyhalothrin + thiamethoxam (R) Endigo CZ 2.06	4-4.5 oz	0.064-0.07	28.4-32		30
	methyl parathion (R) Methyl 4 EC PennCap-M 2 (microencapsulated)	1-2 pt 2-3 pt	0.5-1.0	4-8 2.7-8		20
	Red Banded Stink Bug	acephate (R) Orthene/Acephate 90S Orthene/Acephate 97S	1.1 lb 1.0 lb	1.0		Do not apply more than 1.5 lb ai acephate per season.
lambda-cyhalothrin + thiamethoxam (R) Endigo CZ 2.06		4-4.5 oz	0.064-0.07	28.4-32		30
Multiple Species		cyfluthrin/imidacloprid (R) Leverage 2.7 F	3.0-3.8 oz	0.063-0.08	33.7-42.7	For control of multiple pests including but not limited to bollworm, bean leaf beetle, aphids, grasshoppers, three-cornered alfalfa hopper, saltmarsh caterpillar, blister beetle, cabbage looper, velvetbean caterpillar, green cloverworm, yellowstriped armyworm, thrips and stink bugs.
	gamma-cyfluthrin + chlorpyrifox (R) Cobalt 2.545 EC	7-38 oz	0.14-0.76	3.4-18.3	30	
	lambda-cyhalothrin + thiamethoxam (R) Endigo CZ 2.06	4.0-4.5 oz	0.064-0.07	28.4-32	30	