

# Crops - Commercial

<b>Soybean</b>					
<b>Insect</b>	<b>Insecticide</b>	<b>Amount of Concentrate per Acre</b>	<b>Pounds Active Ingredient per Acre</b>	<b>Acres Treated per Gallon or Pound</b>	<b>When to Treat (Economic threshold)</b>
<b>Banded cucumber beetle<sup>5</sup></b>	carbaryl Sevin (4)	16 oz.	0.5	8	4 beetles per sweep.
	lambda-cyhalothrin Karate Z (2.08)	1.28-1.60 oz.	0.02-0.025	100-80	
	gamma-cyhalothrin Declare (1.25)	1.02-1.28 oz.	0.01-0.0125	125.5-100	
<b>Bean leaf beetle<sup>5</sup></b>	carbaryl Sevin (4)	16 oz.	0.5	8	After pod set, 2 beetles per sweep or when 10% of pods are damaged.
	esfenvalerate Asana XL (0.66)	5.8-9.6 oz.	0.03-0.05	22-13	
	lambda-cyhalothrin Karate Z (2.08)	1.28-1.60 oz.	0.02-0.025	100-80	Pyrethroids may provide inconsistent control.
	gamma-cyhalothrin Declare (1.25)	1.02-1.28 oz.	0.01-0.0125	125.5-100	
	bifenthrin Brigade (2)	2.1-6.4 oz.	0.033-0.1	61-20	
	bifenthrin, z-cypermethrin Hero (1.24)	2.6-6.1 oz.	0.025-0.06	49.2-21	
	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	
	lambda-cyhalothrin, thiamethoxam Endigo ZC	4.0-4.5 oz.	premix	32-28.4	
	Imidacloprid, beta-cyfluthrin Leverage 360	2.8 oz.	premix	45.7	
	Trap crop <sup>1</sup>				
<b>Beet armyworm<sup>3</sup></b>	chlorpyrifos Lorsban (4)	24 oz.	0.75	5.3	12 worms, ½ inch or longer per row foot or 150 worms in 100 sweeps. If pod feeding occurs, treat when 10% of pods are damaged.
	spinosad Blackhawk (0.36)	1.7 – 2.2 oz.	0.038-.049	9.4-7.3	
	indoxacarb Steward (1.25)	11.3 oz.	0.11	11.3	
	methoxyfenozide Intrepid (2)	6.0-8.0 oz.	0.09-0.125	21.3-16	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	
	lambda-cyhalothrin, chlorantraniliprole Besiege	10 oz.	premix	12.8	
<b>Blister beetles<sup>5</sup></b>	carbaryl (Sevin) (4)	25 oz.	0.80	5.1	Spot treat infested area when defoliation becomes excessive.
<b>Brown stink bug</b>	cyfluthrin Tombstone (2)	2.8 oz.	0.044	45.7	After pods appear, 1 stink bug per row foot or 36 in 100 sweeps.
	beta-cyfluthrin Baythroid XL (1)	2.8 oz.	0.022	45.7	

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	z-cypermethrin Mustang Maxx(0.8)	4.0 oz.	0.025	32	Treat soybeans grown for seed at 1 stink bug per 6 row feet or six bugs per 100 sweeps.
	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	
	lambda-cyhalothrin, thiamethoxam Endigo ZC	4.0-4.5 oz.	premix	32-28.4	
	bifenthrin Brigade (2)	6.4 oz.	0.1	20	
	bifenthrin, z-cypermethrin Hero (1.24)	10.3 oz.	0.1	12.4	
	imidacloprid, beta-cyfluthrin Leverage 360	2.8 oz.	premix	45.3	
<b>Corn earworm</b> <sup>5, 8</sup>	spinosad Blackhawk (0.36)	1.7 – 2.2 oz.	0.038-.049	9.4-7.3	After bloom, 3 worms per row foot or 38 in 100 sweeps.
	esfenvalerate Asana XL (0.66)	5.8-9.6 oz.	0.03-0.05	22-13	
	carbaryl Sevin (4)	24-32 oz.	0.75-1.0	5.3-4	<b>Use Pyrethroids With Caution:</b> Pyrethroid resistance is prevalent in corn earworms in Louisiana. <sup>8</sup>
	Npv Heligen	1.0-1.6 oz.	---	128-80	
	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	
	indoxacarb Steward (1.25)	5.6-11.3 oz.	0.055-0.011	22.8-11.3	
	lambda-cyhalothrin Karate (2.08)	0.96-1.60 oz.	0.015-0.025	133.3-79.4	
	gamma-cyhalothrin Declare (1.25)	0.77-1.28 oz.	0.0075-0.0125	166.2-100	
	z-cypermethrin Mustang Maxx (0.8)	2.8-4.0 oz.	0.0175-0.025	45.7-32	
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 oz.	0.013-0.022	80-45.7	
	cyfluthrin Tombstone (2)	1.6-2.8 oz.	0.025-0.044	80-45.7	
	bifenthrin Brigade (2)	2.1-6.4 oz.	0.033-0.1	61-20	
	bifenthrin, z-cypermethrin Hero (1.14)	4.0-10.3 oz.	0.04-0.1	32-12.4	
	lambda-cyhalothrin, chlorantraniliprole Besiege	5-8 oz.	premix	25.6-16	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	

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	Methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	
<b>Fall armyworm (corn strain)<sup>5</sup></b>	carbaryl Sevin (4)	16 oz.	0.5	8	When seedling beans are reduced to six or less plants per foot of fewer. In older beans treat when defoliation becomes excessive <sup>5</sup> .
	methomyl Lannate (2.4)	16-24 oz.	0.3-0.45	8-5.3	
	spinosad Blackhawk (0.36)	1.7 – 2.2 oz.	0.038-.049	9.4-7.3	
	indoxacarb Steward (1.25)	7.7-11.3 oz.	0.075-0.11	16.6-11.3	
	lambda-cyhalothrin, chlorantraniliprole Besiege	8-10 oz.	premix	16-12.8	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	
<b>Fall armyworm (grass strain)<sup>5</sup></b>	carbaryl Sevin (4)	16 oz.	0.5	8	When seedling beans are reduced to 6 or fewer plants per foot of row. In older beans, treat when defoliation becomes excessive <sup>5</sup> .
	methomyl Lannate (2.4)	6.7 oz.	0.3-0.45	8-5.3	
	spinosad Blackhawk (0.36)	1.7 – 2.2 oz.	0.038-.049	9.4-7.3	
	indoxacarb Steward (1.25)	7.7-11.3 oz.	0.075-0.11	16.6-11.3	
	lambda-cyhalothrin, chlorantraniliprole Besiege	8-10 oz.	premix	16-12.8	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	
	lambda-cyhalothrin, Karate (2.08)	0.96-1.60 oz.	0.015-0.025	133.3-80	Grass strain fall armyworm unlike corn strain fall armyworm primarily originates from grass hosts.
	gamma-cyhalothrin Declare (1.25)	0.77-1.28 oz.	0.0075-0.0125	166.2-100	
	z-cypermethrin Mustang Maxx(0.8)	1.2-4.0 oz.	0.0075-0.025	106.7-32	
	beta-cyfluthrin Baythroid XL (1)	0.8-1.6 oz.	0.007-0.013	160-80	
	cyfluthrin Tombstone (2)	0.8-1.6 oz.	0.013-0.025	160-80	
	bifenthrin, z-cypermethrin Hero (1.24)	2.6-6.1 oz.	0.025-0.06	49.2-20.9	

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	methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	
<b>Grasshoppers</b> <sup>5</sup>	diflubenzuron Dimilin (2)	2.0 oz.	0.031	64	Treat to prevent excessive stand loss or foliage loss. <b>Not effective on adults.</b> Apply to second and third stage nymphs only.
<b>Green cloverworm</b> <sup>3, 5</sup>	carbaryl Sevin (4)	8-16 oz.	0.25-0.5	16-8	8 worms, ½ inch or longer, per row foot or 300 worms in 100 sweeps.
	spinosad Blackhawk (0.36)	1.1 – 2.2 oz.	0.025-.049	14.5-7.3	
	methomyl Lannate (2.4)	6.7 oz.	0.125	19.1	
	indoxacarb Steward (1.25)	5.6-11.3 oz.	0.055-0.11	22.9-11.3	
	lambda-cyhalothrin Karate (2.08)	0.96-1.60 oz.	0.015-0.025	133.3-80	
	gamma-cyhalothrin Declare (1.25)	0.77-1.28 oz.	0.0075-0.0125	166.2-100	
	z-cypermethrin Mustang Maxx (0.8)	1.2-4.0 oz.	0.0075-0.025	106.7-32	
	beta-cyfluthrin Baythroid XL (1)	0.8-1.6 oz.	0.007-0.013	160-80	
	cyfluthrin Tombstone (2)	0.8-1.6 oz.	0.013-0.025	160-80	
	bifenthrin, z-cypermethrin Hero (1.24)	2.6-6.1 oz.	0.025-0.06	49.2-20.9	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	
	lambda-cyhalothrin, chlorantraniliprole Besiege	5-8 oz.	premix	25.6-16	
	methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	
<b>Kudzu bug</b>	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	1 nymph per sweep.  For more information see <a href="http://kudzubug.org">kudzubug.org</a> .
	bifenthrin Discipline (2)	6.4 oz.	0.1	20	
	thiamethoxam, lambda-cyhalothrin Endigo ZC	4.5 oz.	premix	28.4	
	gamma-cyhalothrin Declare (1.25)	1.28-1.54 oz.	0.0125-0.015	100-83.11	

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<b>Redbanded stink bug<sup>4</sup></b>	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	16 bugs in 100 sweeps.  <b>Caution:</b> 8 oz. of acephate applied alone has provided unsatisfactory control of redbanded stinkbugs.
	thiamethoxam, lambda- cyhalothrin Endigo ZC	-4.5 oz.	premix	28.4	
	bifenthrin Brigade (2)	6.4 oz.	0.1	20	
	bifenthrin, z- cypermethrin Hero (1.24)	10.3 oz.	0.1	12.4	
	imidacloprid, beta- cyfluthrin Leverage 360	2.8 oz.	premix	45.7	
	clothianidin Belay (2.13)	4.0 oz.	0.067	32	
<b>Salt marsh caterpillar<sup>5</sup></b>	methomyl Lannate (2.4)	24 oz.	0.45	5.3	Spot treat when 8 worms per row foot or when seedling beans are reduced to 6 or fewer per row foot.
	acephate Orthene	12.0 oz.	0.75	1.3	
	methoxyfenozide Intrepid (2)	4-8 oz.	0.06-0.125	32-16	
	methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	
<b>Southern green stink bug, Green stink bug</b>	cyfluthrin Tombstone (2)	1.6-2.8 oz.	0.025-0.044	80-45.7	After pods appear, 1 stink bug per row foot or 36 in 100 sweeps. Treat soybeans grown for seed at 1 stink bug per 6 row feet or 6 bugs per 100 sweeps.
	z-cypermethrin Mustang Maxx (0.8)	3.2-4.0 oz.	0.02-0.025	40-32	
	lambda- cyhalothrin Karate Z (2.08)	1.60-1.92 oz.	0.025-0.03	80-66.7	
	gamma- cyhalothrin Declare (1.25)	1.28-1.54 oz.	0.0125-0.015	100-83.11	
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 oz.	0.013-0.022	80-45.7	
	acephate Orthene	12-16 oz.	0.75-1.0	1.3-1	
	bifenthrin Brigade (2)	2.1-6.4 oz.	0.033-0.1	61-20	
	bifenthrin, z- cypermethrin Hero (1.24)	4.0-10.3 oz.	0.04-0.1	32-12.4	
	imidacloprid, beta- cyfluthrin Leverage 360	2.8 oz.	premix	45.7	

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	thiamethoxam, lambda-cyhalothrin Endigo ZC	4.0-4.5 oz.	premix	32-28.4	
	Trap crop <sup>1,2</sup>				
<b>Soybean looper<sup>3, 5</sup></b>	methomyl Lannate <sup>6</sup> (2.4)	24.0 oz.	0.45	5.3	8 worms, ½ inch or longer, per row foot or 150 worms in 100 sweeps. <b>Caution:</b> Resistance to Intrepid, Prevathon and Besiege has been detected across the South.
	spinosad Blackhawk (0.36)	1.7 – 2.2 oz.	0.038-.049	9.4-7.3	
	indoxacarb Steward (1.25)	5.6-11.3 oz.	0.055-0.11	22.9-11.3	
	methoxyfenozide Intrepid (2)	6.0-8.0 oz.	0.09-0.125	21.3-16	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047-0.067	9.1-6.4	
	lambda-cyhalothrin, chlorantraniliprole Besiege	10 oz.	premix	12.8	
	methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	
<b>Threecornered alfalfa hopper</b>	esfenvalerate Asana XL (0.66)	5.8 – 9.6 oz.	0.03-0.05	22 – 13	Starting at pod set, 3 nymphs per row foot or one adult per sweep.
	lambda-cyhalothrin, Karate Z (2.08)	1.60 oz.	0.025	80	
	gamma-cyhalothrin Declare (1.25)	1.28 oz.	0.0125	100	
	cyfluthrin Tombstone (2)	1.6 – 2.8 oz.	0.025-0.044	80-45.7	
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 oz.	0.013- 0.022	80-45.7	
	z-cypermethrin Mustang Maxx (0.8)	2.8-4.0 oz.	0.017-0.025	45.7-32	
	acephate Orthene)	12-16 oz.	0.75-1.0	1.3-1	
	bifenthrin, z-cypermethrin Hero (1.24)	4.0-10.3 oz.	0.04- 0.1	32-12.4	
<b>Velvetbean caterpillar<sup>3, 5</sup></b>	carbaryl Sevin (4)	8-16 oz.	0.25-0.5	16-8	8 worms, ½ inch or longer, per row foot or 300 worms in 100 sweeps.
	spinosad Blackhawk (0.36)	1.1 – 2.2 oz.	0.025-.049	14.5-7.3	
	chlorpyrifos Lorsban (4)	16.0 oz.	0.5	8	

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	lambda-cyhalothrin, Karate Z (2.08)	0.96-1.28 oz.	0.015-0.02	133.3-100	Preventive – Apply at or shortly after bloom.
	gamma-cyhalothrin Declare (1.25)	0.77-1.28 oz.	0.0075-0.015	166.2-100	
	cyfluthrin Tombstone (2)	1.8 oz.	0.028	71.1	
	beta-cyfluthrin Baythroid XL (1)	1.6-2.8 oz.	0.013-0.022	80-45.7	
	z-cypermethrin Mustang Maxx (0.8)	2.8-4.0 oz.	0.0175-0.025	45.7-32	
	methoxyfenozide Intrepid (2)	4.0-8.0 oz.	0.06-0.125	32-16	
	methomyl Lannate (2.4)	6.7 oz.	0.125	19.1	
	bifenthrin, z-cypermethrin Hero (1.24)	4.0-10.3 oz.	0.04-0.1	32-12.4	
	diflubenzuron Dimilin (2)	2.0 oz.	0.031	64	
	chlorantraniliprole Prevathon (0.43)	14-20 oz.	0.047 – 0.067	9.1-6.4	
	lambda-cyhalothrin, chlorantraniliprole Besiege	5.0-8.0 oz.	premix	25.6-16	
	methoxyfenozide, spinetoram Intrepid Edge	4.0-6.4 oz.	premix	32-20	

<sup>1</sup> **Trap crops for control of bean leaf beetle or stinkbugs:** Where bean leaf beetle and stinkbugs occur in damaging numbers, both pests can be controlled by use of the same early planted trap crops. Plant early maturing varieties, Group IV or V, in small blocks near favorable hibernation quarters two weeks before planting most of the crop. Areas planted to trap crops need not exceed 5% of the total acreage. Bean leaf beetles are attracted to the trap crop areas as soon as the plants emerge. The Southern green and brown stinkbug is attracted to the trap areas at the beginning of flowering and pod set. Thus treatment will differ for the two pests. For bean leaf beetles, foliar insecticide applications can be made to control the first field generation that develops in the trap crop. The first treatment should be made when new adults begin to emerge, about four to five weeks after planting and the second, one week later.

<sup>2</sup> For southern green stinkbug, treat the trap area or soybeans grown for seed with a recommended material at one bug per 6 feet of row or six bugs in 100 sweeps and before immature bugs become adults. Start monitoring insect numbers at bloom. A second application may be necessary. For both pests, it is imperative that the insects produced in the trap areas be prevented from moving to the main plantings regardless of how many applications are required. **The widespread adoption of early planting and early maturing varieties has made trap cropping less feasible in some areas.**

<sup>3</sup> Beet armyworms, green cloverworms, soybean loopers and velvetbean caterpillars should be counted together, and an insecticide to control them should be applied when any combination of the four reaches 300 worms in 100 sweeps. However, treatment should be made anytime soybean loopers and/or beet armyworms exceed 150 worms in 100 sweeps.

<sup>4</sup> Effective control of the redbanded stinkbug has been difficult to achieve with labeled insecticides. Multiple applications may be required to achieve season long control.

<sup>5</sup> Prior to bloom, soybeans can tolerate 30% to 35% defoliation. During bloom and pod set, defoliation should not exceed 20% to 25%.

<sup>6</sup> Recent LSU AgCenter research has shown satisfactory control of soybean looper with Lannate at 0.45 pound AI per acre. In past years, however, this pest has been highly resistant to Lannate at some locations. Producers should be aware that the current use of Lannate might still give inconsistent results.

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<sup>7</sup> LSU AgCenter Research indicates that low rates of Blackhawk will not give satisfactory control of rapid outbreaks of soybean looper that far exceed the economic threshold. Also, ground application is more effective than aerial application.

<sup>8</sup> Some corn earworms are exhibiting resistance to pyrethroids. When numbers exceed two times the action threshold, use other products or add 0.5 pound Orthene (Acephate) to the recommended pyrethroid.

**CAUTION:** A species of green stinkbug that feeds almost exclusively on morning glory occurs in soybean fields infested with this weed. This species is not a pest and should not be controlled. The adult can readily be recognized by a white, heart-shaped spot in the middle of the upper surface. In early September this species turns a dark brown to deep red resembling the brown stinkbug, but it can be recognized by the white spot.

**CAUTION:** The lesser cornstalk borer can be a serious soil insect problem. Most problems occur in late-planted soybeans that follow wheat or rye grass. Drought and high temperatures are also usually associated with the problem. Some states recommend Lorsban 15G applied at planting in a T-band at 8 oz granules per 1,000 row feet for preventive control.

<b>Soybean</b>
<b>Insecticide Precautions and Limitations (refer to insecticide label for complete information)</b>
<b>Asana XL:</b> Extremely toxic to fish and aquatic invertebrates. Do not feed or graze livestock on treated fields. Do not exceed 0.2 pound AI per acre per season. Preharvest interval: 21 days. REI: 12 hours.
<b>Baythroid XL:</b> Same as cyfluthrin (2) except maximum AI per acre per season is 0.0875 pound. Preharvest interval: 21 days.
<b>Brigade:</b> Toxic to fish and aquatic invertebrates. Do not exceed 0.3 pound AI per acre per season. Preharvest interval is 18 days. REI: 12 hours.
<b>Carbaryl (Sevin):</b> Toxic to bees, estuarine and aquatic organisms. Preharvest intervals: 21 days for grain, 14 days for grazing or forage. Maximum AI per acre per season is 6 pounds. REI: 12 hours.
<b>Cyfluthrin:</b> Toxic to fish and aquatic invertebrates. Maximum AI per acre per season is 0.175 pound. Do not feed forage within 15 days of harvest. Preharvest interval: 45 days. REI: 12 hours.
<b>Declare:</b> Extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not apply more than 0.03 pound AI per acre per season. Preharvest interval: 30 days. REI: 24 hours.
<b>Dimilin:</b> Toxic to aquatic invertebrates. Do not make more than two applications per season. Preharvest interval: 21 days. REI: 12 hours.
<b>Endigo ZC:</b> Toxic to fish, aquatic organisms and wildlife. Do not apply to water. Avoid weather conditions that favor drift and runoff. Do not exceed a total of 9 fluid oz. of Endigo, or 0.06 pound AI of lambda-cyhalothrin products or 0.125 pound AI of thiamethoxam products per acre per season. Do not graze or harvest straw, forage or hay for livestock. Preharvest interval: 30 days. REI: 24 hours.
<b>Hero:</b> Toxic to fish, oysters, shrimp and aquatic invertebrates. Do not exceed 0.4 pound AI per acre per season. Do not graze or harvest forage, straw or hay for livestock. Preharvest interval: 21 days. Re-entry interval: 12 hours.
<b>Intrepid:</b> Drift and runoff may be toxic to sensitive aquatic invertebrates. Do not apply by air within 150 feet or by ground within 25 feet of surface water. Apply no more than 1 pound AI per acre per season or four applications per acre per season. Preharvest interval: 14 days for seed and 7 days for hay or forage. REI: 4 hours.
<b>Karate:</b> Toxic to fish, aquatic organisms and bees. Do not graze or harvest treated forage, straw or hay for livestock. Do not apply more than 0.06 pound AI per acre per season. Preharvest interval: 30 days. REI: 24 hours.
<b>Lannate:</b> Toxic to fish, aquatic invertebrates, bees and wildlife. Do not apply within 14 days of harvest. Do not apply more than 1.35 pounds AI per acre per year. Do not graze forage within 3 days of last application. Preharvest interval: 12 days. REI: 48 hours.
<b>Leverage 360:</b> Extremely toxic to fish and aquatic invertebrates. Direct sprays and residues are highly toxic to bees. Avoid drift and runoff when treating. Use of this product on highly permeable soils with a shallow water table may result in ground water contamination. Maximum formulated product allowed per crop season: 9 fluid oz. (0.07 pound AI of beta-cyfluthrin and 0.14 pound AI of imidacloprid). Preharvest interval: 21 days for seed and 15 days for hay and green forage. REI: 12 hours.
<b>Lorsban:</b> Toxic to bees, birds, fish and other wildlife. Do not feed treated soybean forage or hay to livestock. Do not apply more than 3 pounds AI per acre per season. Preharvest interval: 28 days. REI: 24 hours.
<b>Mustang Maxx:</b> Toxic to aquatic invertebrates, fish, oysters and shrimp. Do not apply more than 0.15 pound AI per acre per season. Preharvest interval: 21 days. REI: 12 hours.
<b>Orthene/Acephate:</b> Apply by air at 5-10 GPA and by ground at 10-50 GPA. Do not harvest for hay or forage. Do not apply more than 1.5 pounds AI per acre per season. Preharvest interval: 14 days. REI: 24 hours.



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## Soybean

**Insecticide Precautions and Limitations (refer to insecticide label for complete information)**

**Respect:** Same as Mustang Maxx.

**Steward:** Toxic to fish, birds and aquatic invertebrates. Do not feed or graze livestock on treated fields. Do not apply more than 0.44 pound AI per acre per year. Preharvest interval: 21 days. REI: 12 hours.

**Blackhawk:** Toxic to bees and mollusks. Do not apply more than 0.186 pound A.I. per acre per year. Do not feed treated forage/hay to beef or dairy cattle. Preharvest interval: 28 days. REI: 4 hours.

**Abbreviations:** **REI:** re-entry interval; **AI:** active ingredient; **GPA:** gallons per acre