

SOYBEAN INSECTICIDE PERFORMANCE RATING, 2012

| Rating Scale: 0 = no control 10 = excellent | Restricted Use (R) | Stem Feeders | | Defoliators | | | | | | | | | Defoliators and Pod Feeders | | | | Pod Feeders | |
|---|--------------------|--------------|------------------------------|----------------|----------------|-------------|------------------|-----------------------|----------------|----------------|-------------|------------------------|-----------------------------|---------------|-----------------------------|--------------|-----------------|-----------------|
| | | Cutworm | Threecornered Alfalfa Hopper | Blister Beetle | Garden Webworm | Grasshopper | Green Cloverworm | Saltmarsh Caterpillar | Soybean Looper | Cabbage Looper | Spider Mite | Velvetbean Caterpillar | Bean Leaf Beetle | Beet Armyworm | Yellowstriped Fall Armyworm | Corn Earworm | Green Stink Bug | Brown Stink Bug |
| Ambush/Pounce | X | | 7 | 6 | 7 | 6 | 8 | 4 | 2 | 6 | 0 | 8 | 7 | 3 | 7 | 8 | 5 | 5 |
| Asana XL/Adjourn | X | 8 | 8 | 7 | 8 | 7 | 9 | 5 | 3 | 7 | 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 | 0 | 2 | 0 | 0 |
| Baythroid XL | X | 8 | 8 | 7 | 8 | 7 | 9 | 5 | 3 | 7 | 0 | 9 | 7 | 3 | 7 | 8 | 7 | 5 |
| Belay | | | | | | | | | | | | | | | | | 7 | 7 |
| Belt | | | | | 9 | | 9 | 8 | 9 | 9 | | | | 8 | 9 | 8 | | |
| Brigade/Discipline/Fanfare | X | 9 | 9 | 7 | 7 | 7 | 9 | 6 | 3 | 7 | 8 | 9 | 9 | | 8 | 8 | 8 | 8 |
| Cruiser | | | 7 | | | | | | | | | | 5 | | | | | |
| Cobalt | X | 8 | 8 | 7 | 8 | 8 | 9 | 5 | 3 | 7 | 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 | 3 | 7 | 0 | 9 | 7 | 3 | 7 | 8 | 8 | 8 |
| Gaicho | | | 5 | | | | | | | | | | 5 | | | | | |
| Hero | X | 9 | 9 | 7 | 7 | 7 | 9 | 6 | 3 | 7 | 8 | 9 | 7 | | 8 | 8 | 8 | 8 |
| Intrepid | | | | | 8 | | 8 | 8 | 8 | | | 8 | | 8 | 8 | 7 | | |
| Karate/Silencer/Lambda-Cy | X | 8 | 8 | 7 | 8 | 7 | 9 | 5 | 3 | 7 | 0 | 9 | 7 | 3 | 7 | 8 | 7 | 5 |
| Lannate 2.4 LV | 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 |
| Leverage | X | 8 | 8 | 7 | 8 | 7 | 9 | 5 | 3 | 7 | 0 | 9 | 8 | 3 | 7 | 8 | 8 | 7 |
| Lorsban/Nufos/Warhawk | X | 8 | 4 | 4 | 5 | 8 | 7 | 1 | 3 | 4 | 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 | 3 | 7 | 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/Declare | X | 8 | 8 | 7 | 8 | 7 | 9 | 5 | 3 | 7 | 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 | 8 | 9 | 0 | 4 | | 8 | 8 | 8 | 1 | 1 |
| Tracer | | 7 | 0 | 0 | 8 | 2 | 9 | 5 | 8 | 9 | 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.

Shaded boxes indicate products recommended for specific pests in this guide.

| Equivalent Economic Threshold Conversion Between Drop Cloth and Sweepnet | | | | |
|---|--|--|------------------|-------------------|
| Insect | Sampling Method Used at Four Random Areas Per 40 Acres | | | |
| | 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 | 2 | 9 | 18 | 36 |

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 Cutworm | β -cyfluthrin (R) Baythroid XL 1 EC | 0.8-1.6 oz | 0.007-0.013 | 80-160 | Treat when infestation threatens to reduce stand to less than 4-6 plants per row foot. | 45 | |
| | bifenthrin (R) Brigade 2 EC <i>(See generics, p. 26)</i> | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 | |
| | cyfluthrin (R) Tombstone 2 EC <i>(See generics, p. 26)</i> | 0.8-1.6 oz | 0.013-0.025 | 80-160 | | 45 | |
| | carbaryl Sevin 80 S Sevin XLR or 4F | 1.25-1.875 lb 1.0-1.5 qt | 1.0-1.5 | 2.7-4.0 | | 21 | |
| | chlorpyrifos (R) Lorsban 4 E <i>(See generics, p. 26)</i> | 1-2 pt | 0.5-1.0 | 4-8 | | 28 | |
| | esfenvalerate (R) Asana XL 0.66 EC <i>(See generics, p. 26)</i> | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 | |
| | γ -cyhalothrin 1.25 (R) Prolex/Declare CS | 0.77-1.28 oz | 0.0075-0.0125 | 100-167 | | 45 | |
| | λ -cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i> | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 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 | |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 1.28-4.0 oz | 0.008-0.025 | 32-100 | | 21 | |
| | Threecornered Alfalfa Hopper | β -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" tall. Apply when 50% of the plants are girdled or if fewer than 4-6 un-girdled plants per row foot remain in conventional rows, 30"-38", and hopper nymphs are still present. | 45 |
| | | clothianidin Belay 2.13 EC | 3-6 oz | 0.05-0.1 | 21.3-42.7 | | 21 |
| cyfluthrin (R) Tombstone 2 EC <i>(See generics, p. 26)</i> | | 1.6-2.8 oz | 0.025-0.044 | 46-80 | | 45 | |
| esfenvalerate (R) Asana XL 0.66 EC <i>(See generics, p. 26)</i> | | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 | |
| γ -cyhalothrin 1.25 (R) Prolex/Declare CS | | 0.77-1.28 oz | 0.0075-0.0125 | 100-167 | | 45 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|---|--|--|-------------------|---------------------|--|--|
| STEM FEEDERS | | | | | | |
| Threecornered Alfalfa Hopper (cont.) | λ -cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i> | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 30 |
| | imidacloprid Gaucho 600 Senator 600 Axxess 5 FS | 1.6 oz/100 lb seed 1.6 oz/100 lb seed 1.6 oz/100 lb seed | | | Seed treatment. DO NOT graze or feed livestock on forage or hay. | |
| | thiamethoxam Cruiser 5 FS Warden CZ | 1.28 oz/100 lb seed 3.2 oz/100 lb seed | | | Seed treatment | |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 |
| | ζ -cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |
| DEFOLIATORS | | | | | | |
| Blister Beetle | β -cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45-80 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs. | 45 |
| | bifenthrin (R) Brigade 2 EC <i>(See generics, p. 26)</i> | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | carbaryl Sevin 80 S Sevin XLR or 4F | 0.625-1.25 lb 1-2 pt | 0.5-1.0 | 4-8 | | 21 |
| | cyfluthrin (R) Tombstone 2 EC <i>(See generics, p. 26)</i> | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |
| | γ -cyhalothrin 1.25 (R) Prolex/Declare CS | 1.25-1.54 oz | 0.0125-0.015 | 83-100 | | 45 |
| | λ -cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i> | 1.6-1.92 oz | 0.025-0.03 | 67-80 | | 30 |
| | methyl parathion (R) Methyl 4 EC | 0.75-2.0 pt | 0.375-1.0 | 4-10 | | 20 |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 |
| | ζ -cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest | |
|---|--|--|-------------------|---------------------|---|--|----|
| Garden Webworm | <i>Bacillus thuringiensis</i> | Check label. | | | | | |
| | β-cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45-80 | | 45 | |
| | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 | |
| | cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 | |
| | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 | |
| | γ-cyhalothrin 1.25 (R) Prolex/Declare CS | 1.25-1.54 oz | 0.0075-0.0125 | 83-100 | 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 | |
| | λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 30 | |
| | methyl parathion (R) Methyl 4 EC | 0.75-2.0 pt | 0.375-1.0 | 4-10 | | 20 | |
| | methoxyfenozide Intrepid 2 F | 4-8 oz | 0.0625-0.125 | 16-32 | | 14 | |
| | ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 | |
| | ζ-cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 | |
| | Grasshopper | β-cyfluthrin (R) Baythroid XL 1 EC | 2.0-2.8 oz | 0.016-0.022 | 45-64 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs. | 45 |
| | | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | | chlorpyrifos (R) Lorsban 4 E (See generics, p. 26) | 0.5-1.0 pt | 0.25-0.5 | 8-16 | | 28 |
| cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | | 2.0-2.8 oz | 0.031-0.044 | 68-80 | | 45 | |
| 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 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|--|--|---------------------------------------|-------------------|---|---|--|
| DEFOLIATORS | | | | | | |
| Grasshopper (cont.) | dimethoate Dimethoate 4 E | 1 pt | 0.5 | 8 | | 21 |
| | esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 |
| | γ-cyhalothrin 1.25 (R) Prolex/Declare CS | 1.28-1.54 oz | 0.0125-0.015 | 83-100 | | 45 |
| | λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 1.6-1.92 oz | 0.025-0.03 | 67-80 | | 30 |
| | methyl parathion (R) Methyl 4 EC Pennacap-M 2 | 2 pt 2 qt | 1.0 | 4 2 | | 20 |
| | ξ-cypermethrin 0.8 EC (R) Mustang Max/Respect | 3.2-4.0 oz | 0.02-0.025 | 32-40 | | 21 |
| | ξ-cypermethrin + bifenthrin (R) Hero 1.24 EC | 2.6-6.1 oz | 0.025-0.06 | 21-49.2 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |
| | Green Cloverworm | β-cyfluthrin (R) Baythroid XL 1 EC | 0.8-1.6 oz | 0.007-0.013 | 80-160 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs. |
| bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 | |
| carbaryl Sevin 80 S Sevin XLR or 4F | 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 | |
| cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 | |
| esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | 2.9-5.8 oz | 0.015-0.03 | 22-44 | | 21 | |
| flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 | |
| γ-cyhalothrin 1.25 (R) Prolex/Declare CS | 0.77-1.28 oz | 0.0075-0.0125 | 100-167 | | 45 | |
| indoxacarb Steward 1.25 SC | 4.6-11.3 oz | 0.045-0.11 | 11.5-28 | | 21 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest | |
|--|--|---|-----------------------------|----------------|--|--|----|
| Green Cloverworm | λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 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 | 0.0625-0.125 | 16-32 | | 14 | |
| | methyl parathion (R) Methyl 4 EC PennCap-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 | | 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 | |
| | ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 | |
| | ζ-cypermethrin + bifenthrin (R) Hero 1.24 EC | 2.6-6.1 oz | 0.025-0.06 | 21-49.2 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 | |
| | Saltmarsh Caterpillar | β-cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs. | 45 |
| | | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | | carbaryl Sevin 80 S Sevin XLR or 4F | 1.25-1.875 lb 1.0-1.5 qt | 1.0-1.5 | 2.7-4 | | 21 |
| chlorpyrifos (R) Lorsban 4 E (See generics, p. 26) | | 1-2 pt | 0.5-1.0 | 4-8 | | 28 | |
| cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 | |
| esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 | |
| flubendiamide Belt 4 SC | | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest | |
|--------------------------------------|--|-------------------------------|-------------------|---------------------|---|---|----|
| DEFOLIATORS | | | | | | | |
| Saltmarsh Caterpillar (cont.) | γ-cyhalothrin 1.25 (R) Prolex/Declare 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 | |
| | λ-cyhalothrin (R) Karate Z 2.08 EC (See generics, p. 26) | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 30 | |
| | methoxyfenozide Intrepid 2 F | 4-8 oz | 0.0625-0.125 | 16-32 | | 14 | |
| | thiodicarb (R) Larvin 3.2 F | 1.25-1.9 pt | 0.5-0.75 | 4.3-6.4 | | 28 | |
| | ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect | 1.28-4.0 oz | 0.008-0.025 | 32-100 | | 21 | |
| | ζ-cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 | |
| | Soybean Looper | <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. | |
| | | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | indoxacarb Steward 1.25 SC | 5.6-11.3 oz | 0.055-0.11 | 11.5-22.8 | 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. | 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 | 0.0625-0.125 | 16-32 | | 14 | |
| | spinosad Tracer 4 SC | 1-2 oz | 0.031-0.062 | 64-128 | | 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 Looper | 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. | | | | 0 | |
| | β-cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | 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. | 45 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|--|--|---|-------------------|---------------------|---|---|
| Cabbage Looper | cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |
| | esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 |
| | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | indoxacarb Steward 1.25 SC | 5.6-11.3 oz | 0.055-0.11 | 11.5-22.8 | | 21 |
| | λ-cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 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 | 0.0625-0.125 | 16-32 | | 14 |
| | spinosad Tracer 4 SC | 1-2 oz | 0.031-0.062 | 64-128 | | 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 (See generics, p. 26) | 5.12-6.4 oz | 0.08-0.1 | 20-25 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. |
| chlorpyrifos (R) Lorsban 4 E (See generics, p. 26) | | 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. | | | Before bloom, treat when 40% defoliation and insects present. After bloom, treat when 25% defoliation plus 6-8 large worms are found using a shake cloth. | |
| | β-cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | | 45 |
| | carbaryl Sevin 80 S Sevin XLR or 4 F | 0.67 lb 1 pt | 0.5 | 8 | | 21 |
| | cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|---------------------------------------|---|----------------------------|-------------------|---------------------|--|--|
| DEFOLIATORS | | | | | | |
| Velvetbean Caterpillar (cont.) | esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | 2.9-5.8 oz | 0.015-0.03 | 22-44 | | 21 |
| | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | λ -cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 30 |
| | methomyl (R) Lannate 2.4 LV | 6.4-24 oz | 0.125-0.45 | 5.3-20 | | 14 |
| | methoxyfenozide Intrepid 2 F | 4-8 oz | 0.0625-0.125 | 16-32 | | 14 |
| | methyl parathion (R) Methyl 4 EC Penncap-M 2 | 1-2 pt 2 pt | 0.25-0.5 | 4-8 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 |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 |
| | ζ -cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |
| DEFOLIATORS and POD FEEDERS | | | | | | |
| Bean Leaf Beetle | 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 of acephate per season. | 14 |
| | β -cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when 25% defoliation occurs. | 45 |
| | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | carbaryl Sevin 80 S Sevin XLR or 4F | 0.67 lb 1 pt | 0.5 | 8 | | 21 |
| | cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest | |
|---------------------------------|---|--|-------------------|---------------------|--|---|----|
| Bean Leaf Beetle | dimethoate Dimethoate 4 E | 1 pt | 0.5 | 8 | | 21 | |
| | esfenvalerate (R) Asana XL 0.66 EC <i>(See generics, p. 26)</i> | 5.8-9.6 oz | 0.03-0.05 | 13-22 | | 21 | |
| | γ-cyhalothrin 1.25 (R) Prolex/Declare CS | 0.77-1.28 oz | 0.0075-0.0125 | 100-167 | | 45 | |
| | λ-cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i> | 0.96-1.6 oz | 0.015-0.025 | 80-133 | | 30 | |
| | imidacloprid Gaucho 600 Access 5 FS Senator 600 | 1.6 oz/100 lb seed 1.6 oz/100 lb seed 1.6 oz/100 lb seed | | | | Gaucho and Cruiser will suppress early-season bean leaf beetles. | |
| | thiamethoxam Cruiser 5 FS Warden CZ | 1.28 oz/100 lb seed 3.2 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 | |
| | ζ-cypermethrin 0.8 EC (R) Mustang Max/Respect | 2.8-4.0 oz | 0.0175-0.025 | 32-45.7 | | 21 | |
| | ζ-cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 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. | 21 |
| | | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | | 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 | 0.0625-0.125 | 16-32 | | 14 | |
| 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 | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|--|--|--|-------------------|---------------------|--|---|
| DEFOLIATORS and POD FEEDERS | | | | | | |
| Yellowstriped Armyworm, Fall Armyworm | β -cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | 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 <i>(See generics, p. 26)</i> | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | cyfluthrin (R) Tombstone 2 EC <i>(See generics, p. 26)</i> | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |
| | flubendiamide Belt 4 SC | 2-3 oz | 0.0625-0.0937 | 42.7-64 | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | γ -cyhalothrin 1.25 (R) Prolex/Declare CS | 1.28-1.54 oz | 0.0125-0.015 | 83-100 | | 45 |
| | λ -cyhalothrin (R) Karate Z 2.08 CS <i>(See generics, p. 26)</i> | 1.6-1.92 oz | 0.025-0.03 | 69-83 | | 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 | 0.0625-0.125 | 16-32 | | 14 |
| | spinosad 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 | 0.6-1.9 pt | 0.25-0.75 | 4.3-12.8 | | 28 |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 3.2-4.0 oz | 0.02-0.025 | 32-40 | | 21 |
| | ζ -cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |
| | Corn Earworm | β -cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | Before bloom, treat when 40% defoliation occurs. After bloom, treat when population approaches an average of 2 or more larvae per row foot 1/2" or larger size on vigorously growing beans. |
| bifenthrin (R) Brigade 2 EC <i>(See generics, p. 26)</i> | | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|---------------------------------|---|-------------------------|-------------------|---|---|--|
| Corn Earworm | carbaryl | | 0.5-1.5 | | | 21 |
| | Sevin 80 S | 1-2 lb | | | | |
| | Sevin XLR or 4 F | 1-3 pt | | 2.7-8 | | |
| | cyfluthrin (R) | | 0.025-0.044 | | | 45 |
| | Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | | 45.7-80 | | |
| | flubendiamide | | 0.0625-0.0937 | | DO NOT apply more than 6 oz of Belt per acre per season. | 14 |
| | Belt 4 SC | 2-3 oz | | 42.7-64 | | |
| | γ-cyhalothrin 1.25 (R) | | 0.0075-0.0125 | | | 45 |
| | Prolex/Declare CS | 0.77-1.28 oz | | 100-167 | | |
| | λ-cyhalothrin (R) | | 0.02-0.03 | | | 30 |
| | Karate Z 2.08 CS (See generics, p. 26) | 1.28-1.92 oz | | 67-100 | | |
| | esfenvalerate (R) | | 0.03-0.05 | | | 21 |
| | Asana XL 0.66 EC (See generics, p. 26) | 5.8-9.6 oz | | 13-22 | | |
| | indoxacarb | | 0.055-0.11 | | | 21 |
| | Steward 1.25 SC | 5.6-11.3 oz | | 11.5-22.8 | | |
| methomyl (R) | | 0.225-0.45 | | | 14 | |
| Lannate 2.4 LV | 0.75-1.5 pt | | 5.3-10.7 | | | |
| permethrin (R) | | 0.1-0.2 | | Permethrin: DO NOT graze treated areas or harvest for forage or hay. DO NOT make more than 2 applications per season. | 60 | |
| Ambush 2.0 E | 6.4-12.8 oz | | 10-20 | | | |
| Pounce 3.2 E | 4-8 oz | | 16-32 | | | |
| spinosad (R) | | 0.047-0.062 | | 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 | |
| Tracer 4 SC | 1.5-2.0 oz | | 64-85 | | | |
| thiodicarb (R) | | 0.25-0.4 | | | 28 | |
| Larvin 3.2 F | 10-16 oz | | 8-12.8 | | | |
| ζ-cypermethrin 0.8 EC (R) | | 0.0175-0.025 | | | 21 | |
| Mustang Max/Respect | 2.8-4.0 oz | | 32-45.7 | | | |
| ζ-cypermethrin + bifenthrin (R) | | 0.04-0.1 | | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 | |
| Hero 1.24 EC | 4.0-10.3 oz | | 12.4-32 | | | |
| ROOT FEEDER | | | | | | |
| Grape Colaspis | imidacloprid | | | | A seed treatment can be beneficial in areas where grape colaspis has historically been a problem. | |
| | Gaucho 600 | 1.6 oz/100 lb seed | | | | |
| | Axcess 5 FS | 1.6 oz/100 lb seed | | | | |
| | Senator 600 | 1.6 oz/100 lb seed | | | | |
| | thiamethoxam | | | | | |
| | Cruiser 5 FS | 1.28 oz/100 lb seed | | | | |
| | Warden CZ | 3.2 oz/100 lb seed | | | | |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|--|---|----------------------------|-------------------|---------------------|---|--|
| POD FEEDERS Green Stink Bug, Southern Green Stink Bug, Red Shouldered Stink Bug | acephate (R) Orthene/Acephate 90 S Orthene/Acephate 97 S | 0.56-1.1 lb 0.50-1.0 lb | 0.5-1.0 | | DO NOT apply more than 1.5 lb ai acephate per season. | 14 |
| | β -cyfluthrin (R) Baythroid XL 1 EC | 1.6-2.8 oz | 0.013-0.022 | 45.7-80 | Treat when an average of 1 stink bug per row foot is found using a shake sheet or 9 stink bugs per 25 sweeps. | 45 |
| | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | clothianidin Belay 2.13 | 3-6 oz | 0.05-0.1 | 21.3-42.7 | DO NOT apply Belay treatments less than 7 days apart. DO NOT apply more than 12 oz per acre. | 21 |
| | cyfluthrin (R) Tombstone 2 EC (See generics, p. 26) | 1.6-2.8 oz | 0.025-0.044 | 45.7-80 | | 45 |
| | esfenvalerate (R) Asana XL 0.66 EC (See generics, p. 26) | 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 |
| | γ -cyhalothrin 1.25 (R) Prolex/Declare CS | 1.28-1.54 oz | 0.0125-0.015 | 83-100 | | 45 |
| | λ -cyhalothrin (R) Karate Z 2.08 CS (See generics, p. 26) | 1.6-1.92 oz | 0.025-0.03 | 67-80 | | 30 |
| | methyl parathion (R) Methyl 4 EC PennCap-M 2 | 1-2 pt 2 pt | 0.25-0.5 | 8 4 | | 20 |
| | ζ -cypermethrin 0.8 EC (R) Mustang Max/Respect | 3.2-4.0 oz | 0.02-0.025 | 32-40 | | 21 |
| | ζ -cypermethrin + bifenthrin (R) Hero 1.24 EC | 4.0-10.3 oz | 0.04-0.1 | 12.4-32 | DO NOT apply more than 0.4 lb ai of Hero per season. DO NOT apply again for 30 days. | 21 |

SOYBEAN INSECT CONTROL

| Insect | Insecticide | Formulation/Acre | Lb ai/Acre | Acres/Gallon | Application/Comments | Minimum Days From Last Application to Harvest |
|----------------------------|---|---------------------------|---------------------|---------------------|---|--|
| Brown Stink Bug | acephate (R) Orthene/Acephate 90 S Orthene/Acephate 97 S | 0.56-1.1 lb 0.5-1.0 lb | 0.5-1.0 | | DO NOT apply more than 1.5 lb ai acephate per season. | 14 |
| | bifenthrin (R) Brigade 2 EC (See generics, p. 26) | 2.1-6.4 oz | 0.033-0.1 | 20-61 | DO NOT apply more than 0.3 lb ai of Brigade per season. DO NOT apply again for 30 days. | 18 |
| | clothianidin Belay 2.13 | 3-6 oz | 0.05-0.1 | 21.3-42.7 | DO NOT apply Belay treatments less than 7 days apart. DO NOT apply more than 12 oz per acre. | 21 |
| | λ-cyhalothrin + thiamethoxam (R) Endigo CZ 2.06 | 4.0-4.5 oz | 0.064-0.07 | 28.4-32 | Treat when an average of 1 stink bug per row foot is found using a shake sheet or 9 stink bugs per 25 sweeps. | 30 |
| | methyl parathion (R) Methyl 4 EC PennCap-M 2 (microencapsulated) | 1-2 pt 2-3 pt | 0.5-1.0 0.5-0.75 | 4-8 2.7-4 | | 20 |
| Redbanded Stink Bug | acephate (R) Orthene/Acephate 90 S Orthene/Acephate 97 S | 1.1 lb 1.0 lb | 1.0 | | DO NOT apply more than 1.5 lb ai acephate per season. | 14 |
| | λ-cyhalothrin + thiamethoxam (R) Endigo ZC 2.06 | 4.0-4.5 oz | 0.064-0.07 | 28.4-32 | | 30 |
| MULTIPLE SPECIES | β-cyfluthrin + imidacloprid (R) Leverage 360 | 2.8 oz | 0.066 | 45.7 | 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. | 45 |
| | γ-cyhalothrin + chlorpyrifos (R) Cobalt Advanced | 6-38 oz | 0.012-0.76 | 3.4-21.3 | | 30 |
| | λ-cyhalothrin + thiamethoxam (R) Endigo ZC 2.06 | 2.5-4.5 oz | 0.04-0.07 | 28.4-51.2 | | 30 |