

Field Crops

Department of Entomology

CORN INSECT CONTROL RECOMMENDATIONS - 2016

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

This publication is intended to aid pest managers in treating pest infestations in corn 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., Bt traited hybrids) are not included in this list.

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|----------------------------------|---------------------------------|---------------------------|-----------------------------|------------------|--|--|
| Armyworm species | alpha-cypermethrin* | Fastac | 30 | 3 | Greater than 50% of the plants show fresh feeding and the larvae are less than 1-1/4" long. Whorl feeding: more than 75% of plants show whorl feeding, plants are stressed, and larvae less than 1-1/4" long. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | methoxyfenozide | Intrepid | 21 | 18 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | spinetoram | Delegate, Radiant | 28 | 5 | | |
| | spinosad | Tracer, generics | 28 | 5 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| chlorpyrifos;lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|--|--|----------------------------------|-----------------------------|------------------|--|------|
| Armyworm species (Con't.) | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Cutworms (Black, Dingy, Variegated, Clay-backed) | alpha-cypermethrin* | Fastac | 30 | 3 | Post emergence: 3-5% of the plants show damage, 2 or more larvae are found per 100 plants and larvae are 1/2 to 1-1/2" long. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | methoxyfenozide | Intrepid | 21 | 18 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | | 3;1B |
| | | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | | 3;3 |
| | | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | | 1B;3 |
| | | chlorpyrifos;lambda-cyhalothrin* | Cobalt Advanced | 21 | | 1B;3 |
| | | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | | 3;3 |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Brown Stink Bug | alpha-cypermethrin* | Fastac | 30 | 3 | Control may be needed if seedling plants are emerging from poorly closed seed slots and being damaged and/or killed. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| Pre-Mixes | | | | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|--------------------------|--|---------------------------|-----------------------------|------------------|--|--|
| Brown Stink Bug (Con't.) | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambdacyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Corn Earworm | alpha-cypermethrin* | Fastac | 30 | 3 | Control is only economically justified on seed, sweet, or popcorn. Treat if 10 or more moths for several consecutive nights are captured in an earworm pheromone trap just before or during silking. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | chlorantraniliprole | Coragen | 14 | 28 | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | spinosad | Tracer, generics | 28 | 5 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambdacyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Corn Flea Beetle | alpha-cypermethrin* | Fastac | 30 | 3 | 5 or more beetles per plant, 50% of seedlings are severely damaged, and plants are under additional stress(es). | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|--|----------------------------------|---------------------------|-----------------------------|------------------|---|--|
| Corn Flea Beetle (Con't.) | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | | |
| Corn Leaf Aphid | chlorpyrifos* | Lorsban, generics | 21 | 1B | Pre-tassel: 15 aphids/plant whorl 3 weeks before tasseling and plants under moisture stress. Post-tassel: 50% of tassels covered prior to 50% pollination and plants under moisture stress. | |
| | dimethoate | Dimethoate, generics | 14 | 1B | | |
| | malathion | Malathion | 5 | 1B | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| Corn Rootworm Beetles | alpha-cypermethrin* | Fastac | 30 | 3 | When tassels are shedding pollen and green silk is continuously clipped back to 1/2 inch or less before 50% pollination has taken place and beetles are present. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|---------------------------------------|--|---------------------------|-----------------------------|------------------|---|--|
| Corn Rootworm Beetles (Con't.) | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambdacyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Corn Rootworm Larvae | chlorpyrifos* | Lorsban, generics | 21 | 1B | 2 or more larvae per plant are found while hand sorting through soil and root-mass prior to lay-by ("cultivation"). | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambdacyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| Corn Borer: European and Southwestern | alpha-cypermethrin* | Fastac | 30 | 3 | European corn borer: base controls on anticipated yield, level of infestation, number of larvae per plant, corn growth stage, expected level of control, and cost of product and application. Refer to Field Crops IPM website < http://www.entm.purdue.edu/fieldcropsipm/ >. | |
| | <i>Bacillus thuringiensis</i> | Dipel, Agree, generics | 0 | 11A | | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorantraniliprole | Coragen | 14 | 28 | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | methoxyfenozide | Intrepid | 21 | 18 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | spinetoram | Delegate, Radiant | 28 | 5 | | |
| | spinosad | Tracer, generics | 28 | 5 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | Southwestern corn borer: First generation - at or just before 35% of the plants show fresh whorl feeding and live larvae are present. Second generation - controls are less effective and generally not economical for field corn. |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|--|---|------------------------------|-----------------------------|------------------|---|---|
| Corn Borer: European and South- western | chlorpyrifos;gamma- cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambda- cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta- cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Grasshop- per | alpha-cypermethrin* | Fastac | 30 | 3 | Treat field borders if about 8 or more adults or 15 or more nymphs/square yard are estimated. Treat field if about 3 or more adults or nymphs/yard are estimated. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | carbaryl | Sevin, Carbaryl, generics | 48 | 1A | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta- cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma- cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambda- cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta- cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| | Japanese Beetle | alpha-cypermethrin* | Fastac | 30 | | 3 |
| beta-cyfluthrin* | | Baythroid | 21 | 3 | | |
| bifenthrin* | | Capture, generics | 30 | 3 | | |
| carbaryl | | Sevin, Carbaryl, generics | 48 | 1A | | |
| cyfluthrin* | | Tombstone | 21 | 3 | | |
| deltamethrin* | | Delta Gold | 21 | 3 | | |
| esfenvalerate* | | Asana, generics | 21 | 3 | | |
| gamma-cyhalothrin* | | Declare, Proaxis | 21 | 3 | | |
| lambda-cyhalothrin* | | Warrior II, generics | 21 | 3 | | |
| zeta-cypermethrin* | | Mustang Max, Respect | 30 | 3 | | |
| Pre-Mixes | | | | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|---|---|----------------------|-----------------------------|------------------|--|--|
| Japanese Beetle (Con't.) | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta- cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma- cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambd- cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos;zeta- cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| Seed Feeders: Seedcorn Maggot, Seedcorn Beetles | beta-cyfluthrin* | Baythroid | 21 | 3 | No rescue treatments available. Apply treatments if replanting into damaged field and pests are still present. | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | clothianidin | Poncho, generics | - | 4A | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | permethrin* | Kernel Guard Supreme | - | 3 | | |
| | terbufos* | Counter | - | 1B | | |
| | tefluthrin* | Force | - | 3 | | |
| | thiamethoxam | Cruiser | - | 4A | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorethoxyfos* | SmartChoice | - | 3;1B | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta- cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | cyfluthrin; tebupirimphos* | Aztec, generics | - | 3;1A | | |
| | chlorpyrifos;gamma- cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambd- cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| Slugs | metaldehyde | Deadline MPs | - | | Spread bait evenly across damaged area if leaves are significantly defoliated and stand is threatened. Use high rate for severe infestations. | |
| Spider Mites | dimethoate | Dimethoate, generics | 14 | 1B | If infested fields have significant yield potential (100+ bu/a), spider mite colonies have established on the lower leaves (discolored), and spreading to the ear leaf or above, then treating before the dent stage may be justified. | |
| | etoxazole | Zeal | 21 | 10B | | |
| | hexythiazox | Onager | 30 | 10A | | |
| | propargite* | Comite | 30 | 12C | | |
| | spiromesifen | Oberon | 30 | 23 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|---|----------------------------------|--------------------------|-----------------------------|------------------|--|--|
| Stalk Borer | alpha-cypermethrin* | Fastac | 30 | 3 | Treatment protects only uninfested plants. When crop stands are threatened, control should be applied to prevent additional plant damage and/or death. Spot spraying infested area(s) of the field is often effective. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | deltamethrin* | Delta Gold | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin;zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos;gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos;lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| chlorpyrifos;zeta-cypermethrin* | Stallion | 30 | 3;3 | | | |
| lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | | |
| Western Bean Cutworm | alpha-cypermethrin* | Fastac | 30 | 3 | Treatment may be needed if 5% of the plants have an egg mass and/or young larvae in the whorl. | |
| | beta-cyfluthrin* | Baythroid | 21 | 3 | | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | chlorantraniliprole | Coragen | 14 | 28 | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | cyfluthrin* | Tombstone | 21 | 3 | | |
| | esfenvalerate* | Asana, generics | 21 | 3 | | |
| | flubendiamide | Belt | 28 | 28 | | |
| | gamma-cyhalothrin* | Declare, Proaxis | 21 | 3 | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | methoxyfenozide | Intrepid | 21 | 18 | | |
| | permethrin* | Ambush, Pounce, generics | 30 | 3A | | |
| | spinetoram | Delegate, Radiant | 28 | 5 | | |
| | spinosad | Tracer, generics | 28 | 5 | | |
| | zeta-cypermethrin* | Mustang Max, Respect | 30 | 3 | | |
| Pre-Mixes | | | | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline | |
|------------------------|--|----------------------|-----------------------------|------------------|--|--|
| Bean Cut-worm (Con't.) | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin; zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos; gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos; lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | chlorpyrifos; zeta-cypermethrin* | Stallion | 30 | 3;3 | | |
| | lambda-cyhalothrin; chlorantraniliprole* | Besiege | 21 | 3;28 | | |
| White Grubs | chlorpyrifos* | Lorsban, generics | 21 | 1B | No rescue treatments are available. Apply treatments if replanting into damaged field areas and grubs are still present. | |
| | clothianidin | Poncho, generics | 0 day plant-back | 4A | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | terbufos* | Counter | - | 1B | | |
| | tefluthrin* | Force | - | 3 | | |
| | thiamethoxam | Cruiser | - | 4A | | |
| | Pre-Mixes | | | | | |
| | bifenthrin; chlorethoxyfos* | SmartChoice | - | 3;1B | | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | | |
| | bifenthrin; zeta-cypermethrin* | Hero, Steed | 30 | 3;3 | | |
| | chlorpyrifos; gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | | |
| | chlorpyrifos; lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | | |
| | cyfluthrin; tebupirimphos* | Aztec, generics | - | 3;1A | | |
| Wireworms | beta-cyfluthrin* | Baythroid | 21 | 3 | No rescue treatments are available. Apply treatments if replanting into damaged field areas and wireworms are still present. | |
| | bifenthrin* | Capture, generics | 30 | 3 | | |
| | chlorpyrifos* | Lorsban, generics | 21 | 1B | | |
| | clothianidin | Poncho, generics | 0 day plant-back | 4A | | |
| | lambda-cyhalothrin* | Warrior II, generics | 21 | 3 | | |
| | terbufos* | Counter | - | 1B | | |
| | tefluthrin* | Force | - | 3 | | |
| | thiamethoxam | Cruiser | - | 4A | | |
| | Pre-Mixes | | | | | |

| Pest | Active Ingredient(s) | Trade Name(s) | Pre-Harvest Interval (days) | MoA ¹ | Treatment Guideline |
|--------------------|-----------------------------------|-----------------|-----------------------------|------------------|---------------------|
| Wireworms (Con't.) | bifenthrin; chlorethoxyfos* | SmartChoice | - | 3;1B | |
| | bifenthrin; chlorpyrifos* | Tundra Supreme | 30 | 3;1B | |
| | chlorpyrifos; gamma-cyhalothrin* | Cobalt, Bolton | 21 | 1B;3 | |
| | chlorpyrifos; lambda-cyhalothrin* | Cobalt Advanced | 21 | 1B;3 | |
| | cyfluthrin; tebupirimphos* | Aztec, generics | - | 3;1A | |

*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>.

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