

Hi-Yield[®]

Systemic Insect Spray



- Use on Lawns, Flowers, Shrubs and Trees
- Kills White Grubs, Mole Crickets, and European Crane Fly Larvae
- Kills Aphids, Beetles, Leafminers, Scale and Other Listed Pest

ACTIVE INGREDIENT:	
Imidacloprid	1.47%
OTHER INGREDIENTS:	
98.53%	
TOTAL	100.00%

**KEEP OUT OF REACH
OF CHILDREN
CAUTION**

See Back Booklet for Additional
Precautionary Statements

For Outdoor Residential Use Only.
**NOT FOR SALE, USE OR DISTRIBUTION IN or INTO Nassau, Suffolk, Kings or
Queens Counties, New York**

NET CONTENTS ONE PINT (16 FL. OZ. / 473 ML)

Hi-Yield® Systemic Insect Spray

PEEL FROM CORNER OF BOOKLET

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If Swallowed

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If In Eyes

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN

No specific antidote is available. Treat the patient symptomatically.

In the event of a medical or chemical emergency, contact 
North America 1-800-255-3924 or Worldwide Intl. + 01- 813-248-0585

Hi-Yield® is a registered trademark of Voluntary Purchasing Groups, Inc.

Manufactured By:



230 FM 87 • BONHAM, TEXAS 75418

EPA Reg. No. 53883-205-7401

EPA Est. No. 7401-TX-01

Visit Us At: www.fertilome.com

Product Questions? 855-270-4776





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30205-0914-CL



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to lakes, streams or ponds. Do not dump rinse water into sewers or other bodies of water. This pesticide is highly toxic to bees. Do not apply this product when bees are active or allow it to drift to blooming plants or weeds when bees are foraging. Apply this product only as specified on this label.



PROTECTION OF POLLINATORS

APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon  in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar. Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.



Do not apply this product while bees are foraging. Do not apply this product to plants that are flowering. Only apply after all petals have fallen off.

For best results, be sure to read and follow all label directions. Shake well before using.

RESTRICTIONS:

- Read and follow directions when using.
- Do not spray the product into fish pools, ponds, streams, or lakes.
- Remove animal feeding dishes prior to application.
- Do not apply this product, by any application method to linden, basswood, or other *Tilia* species.

LAWNS

Hi-Yield® Systemic Insect Spray kills White Grubs, Mole Crickets, European Crane Fly Larvae and other pests listed in the table below. This product forms a protective barrier in the soil which provides control of listed pests all season long. When applied early, **Hi-Yield® Systemic Insect Spray** kills grubs, mole crickets and European crane fly before they hatch and damage lawns. Contact your County Extension Agent for the best dates to apply in your area. This product may be sprayed over soil or mulch. Remove weed barrier before applying.

Use on lawns and yards including the following grasses:

Cool Season or Northern Lawns	Warm Season or Southern Lawns
Kentucky Bluegrass Perennial Ryegrass Tall Fescue, fescues (Red or Fine Leaf)	Bermudagrass, common and hybrid Centipedegrass St. Augustinegrass Zoysiagrass Buffalograss Bahigrass

PESTS CONTROLLED

Pest	Indication of Damage to Lawn
<p>Adelgids Annual bluegrass Weevil Aphids Billbugs Bluegrass Weevils Chinch bug (suppression) Cutworms (suppression) Elm Leaf Beetle European Crane Fly Larvae Lacebugs Leafhoppers Leafminers Mealybugs Mole Crickets Sawfly Larvae Sod Webworm Thrips Whiteflies White Grubs (including larvae of Asiatic Garden Beetle, Black Turfgrass Ataenius, Chafers, Japanese Beetle, May or June Beetle, and Oriental Beetle)</p>	<p>European Crane Fly Larvae often cause damage by feeding on grass roots and disrupting soil surface.</p> <p>Mole Crickets often cause extensive damage by tunneling through lawns. Some species also feed on roots. Tunneling uproots the grass so it easily dries out. Lawns turn yellow, become thin, weedy and can eventually die.</p> <p>White Grubs cause extensive damage to lawns by feeding on grass roots. Grass turns yellow, then brown and dies. Grubs chew off roots so that the grass is easily pulled up in pieces in your hands. You can roll it back like a carpet to reveal the grubs. If patches of dead grass appeared in your lawn late last summer, check for grubs.</p>

Application Instructions

Treat for grubs from the beginning of May to the end of October, or when first noticed. Contact your State Agricultural Extension Service agents for additional recommendations for your area.

RESTRICTIONS:

- Do not exceed one application of **Hi-Yield® Systemic Insect Spray** per season for lawns.
- Do not allow this product to contact plants in bloom if bees are foraging in the treatment area.

Hand-Operated Sprayers

Including backpack, compression, knapsack or tank type sprayers and low pressure boom sprayers. For lawns, mix 2 to 3 fl. oz. of **Hi-Yield® Systemic Insect Spray** per one (1.0) gallon of water for treating approximately 333 sq. ft. of lawn. Use the higher rate for heavier infestations of insect pests.

Gallons of Water	Fluid ounces (fl. Oz.) of product	Tablespoons (tbs.) of product	Area to be treated (sq. ft.)
1 gallon	2.0 – 3.0 fl. oz	4 - 6 tbs.	333 sq. ft.
2 gallons	4.0 – 6.0 fl. oz	8 - 12 tbs.	666 sq. ft.
3 gallons	6.0 – 9.0 fl. oz	12 - 18 tbs.	1,000 sq. ft.

1.0 fl. oz. = 2 tablespoons

RESTRICTIONS

- Children and pets may re-enter the treated area after the spray has dried.
- Do not water lawn within one hour after applying.
- Do not apply this product to waterlogged areas.
- For grub (larvae) control, ½ inch of rainfall or irrigation should occur within 24 hours after application. Thoroughly wet the lawn a few hours after application.
- For Armyworm and Cutworm control, do not irrigate treated areas within 24 hours after application of this product.
- Do not mow treated lawn until after adequate rainfall or irrigation has occurred.

ESTABLISHED ORNAMENTALS IN RESIDENTIAL AREAS

Information:

Hi-Yield® Systemic Insect Spray is for use on outdoor trees, shrubs and groundcovers in landscape plantings as listed in the table below:

Landscape Plantings	Types of Plants
Roses, flowers, bedding plants and flowering shrubs	Azalea, Begonia, Camellia, Cherry Laurel, Geranium, Gardenia, Hydrangea, Impatiens, Ligustrum, Peonies, Primrose, Tea Roses, Salvia, Zinnias and similar herbaceous plants
Evergreen and leafy shrubs and woody ornamentals	Arborvitae, Boxwood, Cotoneaster, Euonymus, Holly, Juniper, Laurel, Privet, Spruce, Yews and similar plants
Groundcovers	English Ivy, Dichondra, Ivy, Pachysandra, Vinca and other similar plants

Hi-Yield® Systemic Insect Spray is for use to kill the pests listed in the table below on outdoor trees and shrubs.

PESTS CONTROLLED

Adelgids	Leafhoppers
Adelgids	(incl. Glassy-winged
Aphids	Sharpshooters)
Black Vine Weevil Larvae	Leafminers
Roundheaded Borers	(incl. Birch Leafminers)
(incl. Eucalyptus	Mealybugs
Longhorned Borers)	Pine Tip Moth Larvae
Flatheaded Borers (incl.	Psyllids
Bronze Birch, Alder Borers)	Royal Palm Bugs
Japanese Beetles (Adult)	Sawfly Larvae
Lacebugs	Scales (incl. Armored
Leaf Beetles (incl. Elm Leaf	Scale [suppression]
Beetles and Viburnum Leaf	and Soft Scale)
Beetles)	Thrips (suppression)
	Whiteflies

Foliar Applications

Use **Hi-Yield® Systemic Insect Spray** as a foliar spray to provide contact control of larvae, nymphs or adults of the following insect pests: Adelgids, Aphids, Japanese Beetles, Lace Bugs, Leaf Beetles (including Elm Leaf Beetles and Viburnum Leaf Beetles), Leafhoppers (including Glassy-Winged Sharpshooter), Mealybugs, Psyllids, Sawfly Larvae, Thrips (Suppression) and Whiteflies.

APPLICATION INSTRUCTIONS

Apply when insects first appear and before high pest populations are established. Retreat when re-infestation occurs, when high pest pressure is observed or repeat applications on an as-needed basis with 10-14 day intervals between applications.

Foliar applications with water must be made as a thorough cover spray to provide uniform distribution. Spray to wet all foliage (leaves, stems and branches). Target the underside of the leaves and try to penetrate dense foliage with the spray droplets.

Hand-Operated Sprayers

Including backpack, compression, knapsack or tank type sprayers. For foliar applications mix 1.5 (1-1/2) teaspoons (tsp) of Hi-Yield® Systemic Insect Spray per one (1) gallon of water.

Spray Volume Gallons of Water	Teaspoons (tsp.) of product	Tablespoons (tbs.) of product
1 gallon	1 ½ tsp.	½ tbs.
2 gallons	3 tsp	1 tbs.
3 gallons	4 ½ tsp.	1 ½ tbs.

1.0 fl. oz. = 2 tablespoons = 6 teaspoons (tsp)

APPLE, PEAR, PEACH, PLUM, CHERRY AND PECAN TREES

For plants established in residential areas as ornamental plantings or as fruit/nuts for consumption.

Plants	Insect Pests Controlled
Apple and Crabapple, Pear, Common and Oriental	Aphids (except Woolly Apple Aphid), Japanese Beetles, Leafhoppers (including Glassy-Winged Sharpshooter), Leafminers, Mealybugs, and San Jose Scale
Peach, Plum and Cherry	Aphids, Cherry Fruit Fly Maggot, Japanese Beetles, Leafhoppers, Plant Bugs, San Jose Scale and Stink Bugs
Pecan	Yellow Pecan Aphid, Black Margined Aphid, Pecan Leaf Phylloxera, Pecan Spittlebug, Pecan Stem Phylloxera

Application Instructions

Timing of applications should coincide with vulnerable stages of the pests. The calendar schedules below are to be used as a guide to application timing but should not be considered a forecast or predictor for treating these insect pests. Consult your State Agricultural Extension Service agent for specific schedules and guidance for your local area. In addition, observe these guidelines for treating the following pests:

- **Aphids:** Make application when aphids first appear and before the leaves are rolled as a result of these pests.
- **Leafhoppers:** Make application when Leafhoppers first appear, during the nymph stage.

- **Leafminers:** Make two applications with intervals of 10 or more days. Make the first application soon after the petal fall is complete. A second application at the same dosage 10 days later should be applied to the early instar larvae.
- **Mealybugs:** Thorough and uniform coverage is necessary.
- **San Jose Scale:** Make application when crawlers are present. Ensure complete spray coverage of the branches, stems and leaves.
- **Spittlebug:** Apply when spittle masses are present and as new generations develop.

For Apples and Pears: Apply full cover sprays after the petal fall is complete. Continue application until the target insects are controlled. Apply up to five (5) foliar applications per season and allow 10 or more days between insecticide applications. Allow seven (7) days between the final application and the apple or pear harvest.

Stage of Trees	Approximate Dates	Apple	Pear
Petal fall	May 22		
1st cover spray, 5-10 days after petal fall	June 1	X	X
2nd cover spray, 10-14 days later	June 15	X	X

Stage of Trees	Approximate Dates	Apple	Pear
3rd cover spray, 10-14 days later	June 29	X	X
4th cover spray, 10-14 days later	July 13	X	X
5th cover spray, 10-14 days later	July 27	X	X
Waiting period before harvest	-	7 days	7 days

For Peaches: Apply full cover sprays after the petal fall is complete. Continue application until the listed insects are controlled sufficiently.

Use up to three (3) foliar applications per season. Allow at least 7 days between applications.

Stage of Trees	Approximate Dates	Peach
Petal fall	May 25 – June 1	
1st cover spray, 5-10 days after petal fall	June 1	X
2nd cover spray, 7-14 days later	June 8 – 14	X
3rd cover spray, 7-14 days later	June 15 – 21	X
Waiting period before harvest	-	0 days

For Cherries and Plums: Apply full cover sprays after the petal fall is complete. Continue application until the target insects are controlled sufficiently. Apply up to five (5) foliar applications per season and allow 10 or more days between insecticide applications. Allow seven (7) days between the final application and the cherry or plum harvest.

Stage of Trees	Approximate Dates	Apple	Pear
Petal fall	May 22		
1st cover spray, 5-10 days after petal fall	June 1	X	X
2nd cover spray, 10-14 days later	June 15	X	X
3rd cover spray, 10-14 days later	June 29	X	X
4th cover spray, 10-14 days later	July 13	X	X
5th cover spray, 10-14 days later	July 27	X	X
Waiting period before harvest	-	7 days	7 days

For Pecans: Apply full cover sprays after the petal fall is complete. Continue application until the listed insects are controlled sufficiently.

Use up to three (3) foliar applications per season. Allow at least 7 days between applications.

Stage of Trees	Approximate Dates	Pecan
Petal fall	Late April	
1st cover spray, 5-10 days after petal fall	May 1	X
2nd cover spray, 10-14 days later	May 15	X
3rd cover spray, 10-14 days later	May 30	X

HOW TO APPLY

Foliar applications with water should be made as a thorough cover spray to provide uniform distribution. Spray to wet all foliage (leaves, stems and branches). Target the undersides of the leaves and try to penetrate dense foliage with the spray droplets.

Hose-End Sprayer Instructions

1. Set the dial to 1-1/2 teaspoons (tsp.). Keep the dial set to this setting while spraying.
2. Add an adequate amount of product to the spray bottle to treat the infested trees. Do not add water to jar.
3. Spray to wet all foliage and direct the spray droplets for an even distribution on the target plants. Any unused product can be poured back into its original container.

Spray volume will vary with the size of the trees and thorough coverage is important. Small trees (less than 15 feet in height) will require approximately 2 gallons of diluted spray per tree. Larger trees (25 feet in height) will require approximately 8 gallons of diluted spray per tree.

Dilution and Time Chart

The estimated amount of diluted spray and the time required to spray one tree with the dial setting of 1-1/2 teaspoons (tsp.)

Tree Height	Spray Volume per Infested Tree (gallons)	Estimated Time to Spray One Tree (minutes)
15	2	1
20	5	2-1/2
25	8	4
30	15	7-1/2
35	20	10

STORAGE AND DISPOSAL

Pesticide Storage: Store in original container in a cool, dry place, out of the reach of children, preferably a locked storage cabinet. Protect from freezing. **Pesticide Disposal: If empty:** Non refillable container. Do not reuse or refill this container. Rinse the empty product container thoroughly and disperse the rinse water on lawn as part of the application. Offer for recycling if available. If recycling is not available: then dispose of container in sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **If partly filled:** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please call your local solid waste agency. Never place unused product down any indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS

The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Voluntary Purchasing Groups, Inc. (VPG) control it is impossible for VPG to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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