Town of Scarborough Conservation Commission

September 23, 2026 | 6:00 pm | Hybrid: Scarborough Town Hall and via Zoom

To participate in the Conservation Commission meeting remotely, please follow this link:
https://scarboroughmaine.zoom.us/webinar/register/WN_lT1_800wRBS6RKUHjXJ_cg

To view the Conservation Commission, please follow this link:
https://www.youtube.com/channel/UCD5Y8CFy5HpXMftV3xX73aw

Agenda

6:00 pm **Call to order and attendance**

(1) Welcome and introductions

(2) Land acknowledgement

(3) Vote on minutes from 7/22/26 meeting

(4) Review 9/23/26 agenda

(5) Public comment

6:15 pm **Old Business**

(1) Low Impact Development (LID) Ordinance – update on schedule

(2) Community Stewardship Guide – update on progress; discuss next steps

(3) Planning Board Applications – TBD; submittals due 9/21/26

6:50 pm **New Business**

(1) Pest Management Advisory Committee – waiver request from Community Services (attached)

(2) Community outreach – discuss tabling at polls (11/3/26)

7:15 pm **Updates**

(1) Town Council

(2) Parks and Conservation Land Board

(3) Transportation Committee

(4) Sustainability Committee

(5) Planning Projects: Climate Action Plan
Visit SustainingScarborough.org to review the daft plan

7:30 pm **Adjourn**

Next meeting:
October 28, 2026

Town of Scarborough Conservation Commission

July 22, 2026 | 6:00 pm | Hybrid: Town Hall and via Zoom

Minutes - DRAFT

Present in person:
Commission: Kate Borduas, Carrick Gambell, Christine Labaree, Cathleen Miller, Abel Plaud
Staff: Jami Fitch, Autumn Speer

Present on Zoom:
Commission: Randi Hogan, Crescie Mauer, Abel Plaud
Town Council: Karin Shupe

Meeting recording

Call to order

1. Meeting is called to order at 6:02 pm.
2. Cathleen offers a land acknowledgement to recognize the Wabanaki People as traditional stewards of Scarborough.
3. Abel motions to accept minutes from the 5/27/25 meeting, Christine seconds. Rollcall vote is 5 in favor, 1 abstain. Motion passes.

Public Comment

1. None.

Old Business

1. Low Impact Development Ordinance
   - Jami shares an updated anticipated adoption timeline. A public meeting will be held in the fall. The meeting will be open to all members of the public. There will not be a separate meeting for developers.
   - The public meeting will focus on DEP-mandated standards and where Scarborough intends to set a high standard than the state minimum. This will not be a Town Council workshop, but staff will provide a workshop if requested.
   - Scarborough is moving the ordinance process forward despite the State pausing the process due to an appeal by another municipality.
   - The Commission discusses messaging around the ordinance, including it being a DEP-mandate as part of the Town's federal Clean Water Act permit, Scarborough is seeking higher standards due to the importance of the marsh and amount of development happening in town.
   - The Commission discusses avenues for public notification, including an article in the digital Leader, e-newsletter, social media, etc.
2. Tree Removal and Site Disturbance

- Autumn provides an update on the tree ordinance. The Ordinance Committee will review it again in August.
- Autumn shares the definition of Heritage Trees and asks the Commission's feedback. The Commission would like the definition to include reference to size and rare/unique species.
- Randi suggests relying on objectivity, e.g., size, species, historical significance, etc.
- Christine suggests referencing Maine's list of species of special concern.
- The ordinance will apply to non-residential development. Residents who want to remove trees will need to check with the Town before moving forward to ensure the trees can be removed. Some newer subdivisions have no-disturb buffers on private lots, so the trees cannot be removed.
- Autumn encourages members to apply to serve on the newly-formed Tree Board. Only one person has applied so far.
- **ACTION: JAMI will send the volunteer application to the group.**

3. Planning Board
   - No projects require Conservation Commission review this month.
   - Autumn shares that tree cutting for the Elmwood Subdivision (near Maple Ave.) has started.

New Business

1. Community Stewardship Guide
   - Cathleen shared a draft outline with the group before the meeting.
   - Kate suggests the guide include the "why," which in this case is clean water.
   - The Commission discusses additional efforts that will support the guide, such as talks and workshops.
   - The produced document should be short, aesthetically pleasing, and include a lot of pictures.
   - The Commission discusses the format for the guide. There should be options for homeowners and renters. An online version makes sense, and a brief pamphlet or fact sheet can direct people online for more information.
   - The Commission will be responsible for developing the content for the guide. Jami will help with formatting.
   - Randi suggests a recognition component for people who use the guide, similar to the summer photo contest.
   - Karin notes that Saco's Conservation Commission is very active at community events. She suggests the Commission make an effort to be at more events in Scarborough.
   - The Commission suggests having a table at the November election. The guide may not be available for the election, but it will be an opportunity to engage with the public. It's also an opportunity to get input from the community on a certain topic or topics.
   - Christine suggests aiming to have it ready for spring when people are ready to start thinking about their yards.
   - Karin encourages the Commission to plan to table at Summerfest in 2027.
   - Commissioners should work within the shared document to add ideas and information.
   - Jami shares that the Town is in the process of developing an online dashboard to help communicate the work the Town is doing.

Updates

1. Town Council
   - Town Council is amending the Rate of Growth Ordinance.
   - Karin hopes the Tree Ordinance will go to the Town Council in September.
   - There is a workshop on data centers happening in September.
   - Karin will being to provide more substantial updates related to the LID Ordinance.

- Maine Audubon reached out to Karin related to bird-safe building ordinances. She plans to meet with them to learn more.
- Eastern Trail Close the Gap ribbon cutting scheduled at the end of July.

2. Parks and Conservation Land Board
   - Scarborough Land Trust is under contract to purchase ~50 acres of land near the Gateway Apartments. The parcel includes wetlands and a vernal pool.
   - The 30x30 display will be updated at the August Town Council meeting.
3. Transportation Committee
   - Greater Portland Metro will hold a public meeting on the Transportation Committee's regular meeting time to help finalize the microtransit zone.
4. Sustainability Committee
   - Sustainability Committee will write a memo to the Town Council recommending the Zoning Ordinance be updated to not allow data center development in Scarborough.
5. Climate Action Plan
   - The draft plan will be available soon. An Town Council workshop is scheduled on 9/16.

Next meeting: August 26, 2026 at 6:00 pm.
Meeting adjourned at 7:31 pm.

MEMO

TO: Conservation Committee; Jami Fitch, Sustainability Manager; Tom Hall, Town Manager

FROM: Nick Cliche, Community Services Director

RE: Waiver Request: Pesticide Application for Grub Infestation

DATE: 9/16/26

Scarborough Community Services is requesting a waiver to permit the application of pesticides to address a significant grub infestation at Willey Field. The infestation is causing noticeable damage to the turf and, if left untreated, could result in further deterioration of the area. Treatment is being requested to control the existing infestation and proactively apply in the Spring to protect the condition and usability of the park.

The two products identified include the use of **Arena**, which will be applied in Fall 2026 upon approval, to remedy any present grubs and also prevent any outbreak for the rest of the season. In April/May, a pre-emergent use of **Acelepryn** would be applied to remain in the soil and prevent grub hatching in the subsequent growing seasons.

We will follow all applicable label requirements and safety measures associated with the application. Upon review of past pest management documentation, it's been noted that waivers have been granted at this location for application in May 2014 and Spring 2018 to treat a similar grub infestation.

We respectfully request approval of this waiver to allow the necessary treatment to be completed over 10 months. After consultation with Mission Turf Services, the above-based program would start this Fall and run through next Summer.

Additionally, we will provide proper notification to the school department, user groups, and community at large, including proper signage near the areas being treated if approved.

Grub Infestation Assessment 9/15/26

Willey Field (Park) - 1 square foot turf rollback: Complete Infestation

1- 19 grubs per square foot

2- 18 grubs per square foot

3- 39 grubs per square foot

4- 30 grubs per square foot

5- 26 grubs per square foot

6- 14 grubs per square foot

ATTACHMENTS

- Treatment plan and product label information provided by Mission Turf Services
- Pictures of grub infestation and assessment by Casey Cunningham, Parks Grounds Manager

If you have any questions or concerns, please don't hesitate to reach out.

Thank you,

Nick Cliche

ncliche@scarboroughmaine.org.

207-730-4151

MISSION TURF SERVICES

O: 603-418-7865
Missionturfllc.com

9.15.26
Scarborough Athletic Fields
2026 Seasonal Grub Monitoring.

Grub Thresholds per Square Foot for Athletic Fields

- Japanese beetle grubs: ~8–10 per sq ft before visible damage occurs.
- Healthy, well-irrigated, and stress-free turf can tolerate 8–10 grubs/sq ft before damage appears
- Stressed turf (due to drought, shade, or heavy foot traffic) may show damage at 5–6 grubs/sq ft
- Dry turf samples of 15+ grubs/sq ft are often considered a trigger for action
- Irrigated turf can carry higher densities before damage is visible, but still requires monitoring

Sampling method:

- Cut a 1 ft × 1 ft square of turf, pull back at least 3 inches deep, and count grubs per square
- Repeat in multiple areas to get an accurate picture.

Bottom line: For most athletic fields, 8–10 grubs/sq ft is the typical action threshold for healthy turf, but 5–6 grubs/sq ft can be critical if turf is stressed. Always confirm species and turf conditions before deciding on treatment.

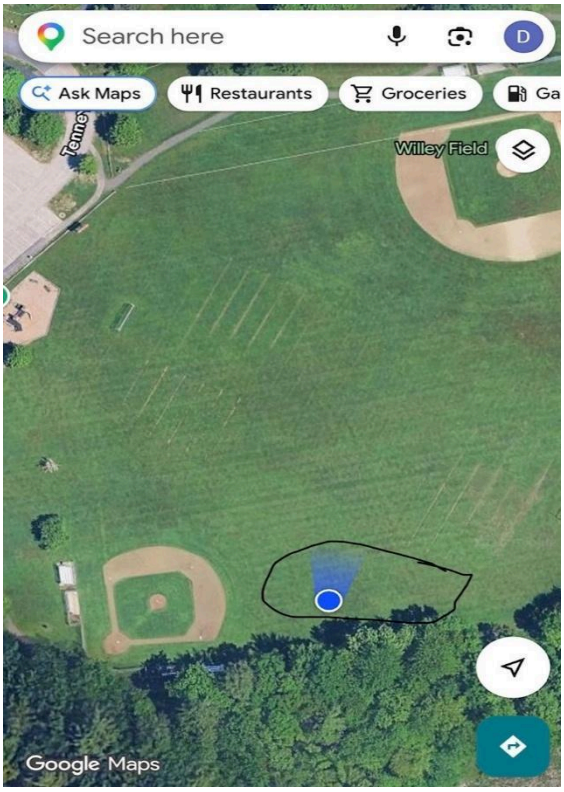
There are a few ways of addressing grubs. The most effective approach is to apply a product in the spring (April-May) that remains in the soil and prevents grubs as they are hatched, thus preventing any outbreak in the fall. This product is Acelepryn and is the least toxic option this could be in a liquid or granular form and would be watered into the soil where it would become effective against grubs hatching. Once we are this late in the season, the options are more limited. One option is Dylox, this will kill any grubs that are present very quickly but have no residual for any grubs that have not hatched. This could be a granular or liquid application and would be watered into the soil to get in contact with the present grubs. The other option is the product Arena, this will kill any present grubs and also prevent any outbreak for the rest of the season. This would be a liquid application and would be watered into the soil to become effective.

It is our recommendation to treat Arena this late in the season to control the current outbreak while preventing any further outbreak. With a follow up application of Acelepryn in the spring to prevent any further outbreak next season.

Willey Field (Park)- 1 square foot turf roll back: Complete Infestation

- (19) grubs per square foot
- (2- 18) grubs per square foot
- (3- 39) grubs per square foot
- (4- 30) grubs per square foot
- (5- 26) grubs per square foot
- (6- 14) grubs per square foot




Search here
D
Ask Maps
Restaurants
Groceries
Ga
Willey Field
Google Maps


1


2


3


4


5


6

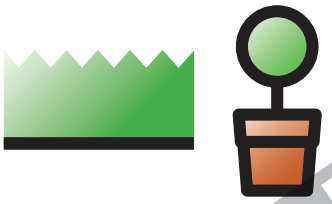
CLOTHIANIDIN | GROUP 4A | INSECTICIDE

Arena® 50 WDG



PROFESSIONAL VALENT® PRODUCTS

INSECTICIDE[1]



FOR FOLIAR AND SYSTEMIC CONTROL OF LISTED INSECTS IN COMMERCIAL AND RESIDENTIAL LANDSCAPES AND INTERIORSCAPES, NON-BEARING FRUIT AND NUT TREES, RESIDENTIAL APPLE AND PEAR TREES, TURFGRASS AND SITES WHERE PLANTS ARE GROWN FOR ORNAMENTAL, AESTHETIC AND CLIMATE MODIFICATION PURPOSES

Active Ingredient	By Wt
*Clothianidin	50.0%
Other Ingredients	50.0%
Total	100.0%

*(E)-1-[(2-chlorothiazol-5-yl)methyl]-3-methyl-2-nitroguanidine

EPA Reg. No. 59639-152
EPA Est. 33762-IA-1, 67545-AZ-1Ⓨ, 70989-MO-1Ⓙ, 86555-MO-1Ⓢ
Superscript is first letter in lot number.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET WEIGHT
2 POUNDS 8 OUNCES

Form 1666-K

SPECIMEN

FIRST AID

If swallowed:	Call 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 by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 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.

HOT LINE NUMBERS

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies, call the **poison control center** at **1-800-222-1222**.
You may also contact **Valent** at **800-892-0099** for emergency medical treatment information.
For general information on this product, you may contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at http://npic.orst.edu.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapor.

SPECIMEN

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes and socks and chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or Viton ≥ 14 mils.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

SPECIMEN

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding, or nectar-producing parts of plants if bees may forage on plants during this time period.

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.

(continued)

SPECIMEN

PROTECTION OF POLLINATORS (continued)

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/tribe, go to: www.aapco.org. 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.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in any way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

BEE HAZARD

See individual crops/use sites for specific pollinator protection application restrictions. If none exist under the specific crop/use site for foliar applications, follow these application directions for crops that are for food/feed and commercially grown ornamentals that are attractive to pollinators and non-agricultural uses:



FOR FOOD CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

This product is toxic to bees exposed to treatment for more than 5 days following treatment.

Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period.

SPECIMEN



NON-AGRICULTURAL USES:

Do not apply Arena® 50 WDG Insecticide[1] while bees are foraging. Do not apply *Arena* 50 WDG Insecticide[1] to plants that are flowering. Only apply after all flower petals have fallen off.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, shoes and socks, chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.

SPECIMEN

RESISTANCE MANAGEMENT

For resistance management, *Arena* 50 WDG Insecticide[1] contains a Group 4A insecticide. Any insect population may contain individuals naturally resistant to *Arena* 50 WDG Insecticide[1] and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of *Arena* 50 WDG Insecticide[1] or other Group 4A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues between the individual components of the mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee.
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.

(continued)

SPECIMEN

- Monitor after application for unexpected target pest survival. If the level of survival suggests that the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

For further information or to report suspected resistance contact Valent U.S.A. LLC at 1-800-6-VALENT (682-5368).

USE INFORMATION

Arena 50 WDG Insecticide[1] is a broad spectrum insecticide, for control of a wide spectrum of insects infesting turfgrass, ornamental plants, interior plantscapes and non-bearing fruit and nut trees (in landscapes). When applied as directed, *Arena* 50 WDG Insecticide[1] provides excellent and long residual insect control.

RESTRICTIONS

- Do not use a foliar application of clothianidin (*Arena* 50 WDG Insecticide[1]) following a soil application of clothianidin.
- Regardless of the application method, do not apply more than 0.4 lb active ingredient clothianidin per acre per year for turf, landscape, ornamentals and non-bearing fruits and nuts.
- If the maximum limit (0.4 lb active ingredient clothianidin per acre per calendar year) has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.
- Do not apply by air.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not *Arena* 50 WDG Insecticide[1] can be used safely on cultivars of plants registered for use. *Arena* 50 WDG Insecticide[1] has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large-scale application to plants. The end user assumes all risks arising from application of *Arena* 50 WDG Insecticide[1] in a manner inconsistent with its labeling.

SPECIMEN

Arena 50 WDG Insecticide[1] can be tank mixed. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. Conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

MIXING INSTRUCTIONS

1. Begin with clean equipment.
2. Add sufficient clean water to the spray tank for 1/2 of the mix load.
3. Start tank agitation.
4. Add and properly suspend the necessary amount of *Arena* 50 WDG Insecticide[1] before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. A high-quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. Be sure to suspend and dilute *Arena* 50 WDG Insecticide[1] properly prior to the addition of any adjuvant. Consult adjuvant label or manufacturer for crop tolerance and safety information when used with this product.
5. Maintain agitation during mixing and application.
6. Apply with properly calibrated spray equipment.

SPRAY DRIFT MANAGEMENT

Do not allow this product to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions where States have more stringent regulations.

SPECIMEN

APPLICATION PROCEDURES

Foliar Application

Select spray nozzles which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium sized droplets and reduce drift. To help ensure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply *Arena* 50 WDG Insecticide[1] using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. Do not make applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Ornamentals in Commercial and Residential Outdoor Landscape and Interior Plantscapes where plants are grown for aesthetic and climate modification purposes.

Arena 50 WDG Insecticide[1] is for use on ornamentals for insect control in commercial and residential landscapes and interior plantscapes. To assure optimum effectiveness, good spray coverage of the target plant is essential. Application can be made by foliar application or soil applications including soil injection, drenches, and broadcast sprays. For optimum control, make applications prior to anticipated pest infestation.

Apply *Arena* 50 WDG Insecticide[1] when threshold populations are observed. Do not wait until population beyond threshold has been established. Apply *Arena* 50 WDG Insecticide[1] in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre.

Choose lower rate for light infestations and/or smaller plants and higher rate for heavy infestations and/or larger plants.

RESTRICTIONS

- Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.
- Drench or broadcast applications will provide control of insects feeding on the plants, however, control will not be achieved until the product has been taken up by the plant vascular system and translocated to the area where the insects are feeding.
- If making broadcast applications, water in with enough irrigation or rainfall to move the product into the zone where insects are active.
- For drench applications, use enough water to move the product into the zone where the insects are active.

SPECIMEN

FOLIAR APPLICATION ON ORNAMENTALS IN OUTDOOR LANDSCAPES

PLANTS	PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES (Per 100 Gallons of Water)	SPECIAL INSTRUCTIONS
Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Aphids	0.63 to 1.26 oz (0.020 to 0.039 lb ai)	Uniformly apply the spray solution to the point of drip. Reapply as needed. The amount of spray solution needed per acre will depend on the ornamental size and the density of the leaf canopy.
	Mealybugs Whiteflies	0.9 to 1.26 oz (0.028 to 0.039 lb ai)	

RESTRICTION

- Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.

SPECIMEN

FOLIAR APPLICATION ON ORNAMENTALS IN INTERIOR PLANTSCAPES			
PLANTS	**PESTS**	***ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES (Per 100 Gallons of Water)**	**SPECIAL INSTRUCTIONS**
Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Aphids	0.63 to 1.26 oz (0.02 to 0.039 lb ai)	Uniformly apply the spray solution to the point of drip. Reapply as needed. The amount of spray solution needed per acre will depend on the ornamental size and the density of the leaf canopy.
	Mealybugs Whiteflies	0.9 to 1.26 oz (0.028 to 0.039 lb ai)	
RESTRICTION • Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.			

SPECIMEN

SOIL APPLICATIONS TO ORNAMENTALS IN OUTDOOR LANDSCAPES AND INTERIOR PLANTSCAPES

For systemic insect control on ornamental plants grown in-ground and outdoor landscapes (commercial, industrial, recreational and residential)

PLANTS	PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES	DIRECTIONS
Ornamental Plants including: Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Aphids Mealybugs Whiteflies White Grubs including: Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	**Shrubs** 1.2 to 2.4 grams (0.001 to 0.003 lb ai) per foot of height 0.08 to 0.17 oz per gallon of water 11.2 to 22.8 grams (0.012 to 0.025 lb ai) per 10 cumulative feet of height or (0.39 to 0.80 oz per 10 cumulative feet of height)	**Soil Drench:** Mix required dose in water and uniformly apply to soil around base of shrub or tree. Pull back mulch before drenching. For optimal performance, apply 2 quarts of dilute solution per foot of height. Apply 1/2 inch of irrigation immediately after application to move product into root zone. Keep soil moist for at least 7 days. **Soil Injection:** Mix required dose in water and make at least four injections per shrub. For optimal performance, inject 2 quarts of dilute solution per foot of height. Keep soil moist for at least 7 days.

(continued)

SPECIMEN

SOIL APPLICATIONS TO ORNAMENTALS IN OUTDOOR LANDSCAPES AND INTERIOR PLANTSCAPES (continued)

For systemic insect control on ornamental plants grown in-ground and outdoor landscapes (commercial, industrial, recreational and residential)

PLANTS	PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES	DIRECTIONS
Ornamental Plants including: Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Aphids Mealybugs Whiteflies White Grubs including: Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	**Multi-Trunk Trees** 1.2 to 4.8 grams per cumulative inch of trunk diameter at breast height (DBH) 11.2 to 48 grams per 10 cumulative inches of trunk diameter at breast height (DBH) 0.38 to 1.6 oz per 10 cumulative feet of trunk diameter at breast height (DBH) **Single-Trunk Trees** 1.2 to 4.8 grams per inch of trunk diameter at breast height (DBH) 11.2 to 48 grams per 10 inches of trunk diameter at breast height (DBH) 0.38 to 1.6 oz per 10 inches of trunk diameter at breast height (DBH)	**Soil Drench:** Mix required dose in water and uniformly apply to soil around base of tree, directed at the root zone. Pull back plastic or mulch before drenching. For optimal performance, apply at least 2 quarts of dilute solution per inch of trunk diameter. If lower drench volume is used, apply 1/2 inch of irrigation immediately after application to move product into root zone. Keep soil moist for at least 7 days. **Soil Injection:** Mix required dose in water and make at least four injections per tree with a low-pressure applicator. Use same amount of solution per hole. Injections can be made using the following methods: **Grid System** – Space injections on a 2.5 ft center extending to drip line. **Circle System** – Make injections in concentric circles extending inward from drip line. **Basal System** – Space injections evenly around trunk no more than 12 inches out from the base. Keep soil moist for at least 7 days after application.

SPECIMEN

(continued)

SOIL APPLICATIONS TO ORNAMENTALS IN OUTDOOR LANDSCAPES AND INTERIOR PLANTSCAPES (continued)

For systemic insect control on ornamental plants grown in-ground and outdoor landscapes (commercial, industrial, recreational and residential)

PLANTS	PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES	DIRECTIONS
Ornamental Plants including: Bedding Plants Evergreens Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Non-Bearing Vines Ornamental Trees Shrubs	Aphids Mealybugs Whiteflies White Grubs including: Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	**Broadcast Rates for Plants Grown in Beds:** 4.3 to 8.3 grams (1-1/2 to 3 teaspoon) per 1,000 sq ft (6.4 to 12.8 oz/A) (0.2 to 0.4 lb ai/A)	Mix required dose in water and then make application in such a manner to maximize spray application with soil. Overhead irrigation immediately after application is recommended to move product off of plant foliage and to the soil surface. For established bedding plants, flowering plants and ground cover apply prior to bloom or after flowering is complete and all petals have fallen off.

Arena 50 WDG Insecticide[1] is a systemic insecticide and must move to the area of the plant where the target pest is feeding. Control of pests may be delayed following an application for one or more weeks as *Arena* 50 WDG Insecticide[1] moves to the feeding site. Factors such as plant size, soil type, and water demands will impact the time between application and obvious insect control.

RESTRICTION

- Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.
- Do not use teaspoons used for measuring this product for household use.

Note: *Arena* 50 WDG Insecticide[1] may be tank mixed or co-applied with other compatible insecticides. Please confirm product compatibility using the water volumes planned with a jar test prior to mixing up a large amount of material.

SPECIMEN

RESIDENTIAL APPLE AND PEAR TREES
(Not for use in commercial production sites) Post Bloom Application Only

Apply *Arena* 50 WDG Insecticide[1] when threshold populations are observed. Do not wait until population beyond threshold has been established. Apply *Arena* 50 WDG Insecticide[1] in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre.

FOLIAR POST BLOOM APPLICATION RATES FOR USE ON RESIDENTIAL BEARING APPLE AND PEAR TREES

USE SITES	PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES	SPECIAL INSTRUCTIONS
Residential bearing: Apple Crabapple Pear	Aphids Leafhoppers Apple Maggot Leafminers Plum Curculios Codling Moths Leafrollers (suppression) Oriental Fruit Moth Soft Scales Pear Psylla	2 to 3 oz per 100 gallons of spray solution or 4 to 6 oz/A (0.125 to 0.187 lb ai/A) Rates per 100 gallons assume a spray rate of 200 gallons per acre. Adjust *Arena* 50 WDG Insecticide[1] rate per 100 gallons so as not to exceed 6 oz *Arena* 50 WDG Insecticide[1] per acre.	Apply *Arena* 50 WDG Insecticide[1] when threshold populations are observed. Do not wait until large insect populations have been established. The amount of *Arena* 50 WDG Insecticide[1] required per acre will depend on tree size and pest pressure. Choose lower rate for light infestation and/or small trees, and the higher rate for heavy infestations and/or larger trees. Apply by ground in 200 gallons per acre as a full coverage spray.

RESTRICTIONS

- Do not apply treatments less than ten (10) days apart.
- Do not apply within seven (7) days of harvest.
- Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.
- Do not feed or allow livestock to graze on cover crops from treated orchards.
- Apply *Arena* 50 WDG Insecticide post bloom only when bees are not foraging.

SPECIMEN

NON-BEARING FRUIT AND NUT TREES (IN LANDSCAPES WHICH ARE NOT INTENDED FOR USE IN COMMERCIAL PRODUCTION) (POST-BLOOM APPLICATIONS)

Apply *Arena* 50 WDG Insecticide[1] when threshold populations are observed. Do not wait until population beyond threshold has been established. Apply *Arena* 50 WDG Insecticide[1] in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre.

APPLICATION RATES (POST-BLOOM APPLICATIONS) ON NON-BEARING FRUIT AND NUT TREES

PESTS	*ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES	SPECIAL INSTRUCTIONS
Aphids Apple Maggots Codling Moths Leafhoppers Plum Curculios Oblique-banded Leafrollers (suppression) Oriental Fruit Moths Spotted Tentiform Leafminers Western Tentiform Leafminers	2 to 3 oz per 100 gallons of spray solution or 4 to 6 oz/A (0.125 to 0.187 lb ai/A)	Non-bearing fruit, including apples and pears, and nut trees in landscapes are only for ornamental use. **FRUITS FROM THESE TREES ARE NOT TO BE USED AS FOOD AT ANY TIME.** The amount of *Arena* 50 WDG Insecticide[1] per acre will depend on tree size, pest pressure and the volume of foliage present. The rate of water carrier per acre is based on a standard of 400 gallons of dilute spray per acre for large trees. **For Control of Codling Moth and Oriental Fruit Moth:** Apply *Arena* 50 WDG Insecticide[1] in a program of rotational sprays with other labeled insecticides. When using the 3 oz rate of *Arena* 50 WDG Insecticide[1] to control codling moth and/or oriental fruit moth, do not apply treatments in less than a 14 day interval. Apply *Arena* 50 WDG Insecticide[1] in a full coverage spray in 200 gallons per acre to the point of drip. The spray volume will depend on tree size and density of the canopy. A single application may result in suppression only.

RESTRICTIONS

- Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.
- Do not apply treatments less than 10 days apart.
- Do not harvest or consume fruits or nuts from trees.
- Apply *Arena* 50 WDG Insecticide post bloom only when bees are not foraging.

SPECIMEN

TURFGRASS

Arena 50 WDG Insecticide[1] can be used as directed on grass grown in industrial, commercial, and residential landscapes including, airports, athletic fields, cemeteries, commercial sod farms, golf courses, home lawns, parks and playgrounds.

Arena 50 WDG Insecticide[1] has sufficient residual activity to provide high levels of control when applications are made preceding or during the egg laying activity of the target pests. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Follow application with sufficient irrigation or rainfall to move the active ingredient through the thatch.

Apply *Arena* 50 WDG Insecticide[1] to turf at 6.4 to 12.8 oz per acre. The rate is dependent on the target pest(s), their stage of development and the desired length of control. Multiple applications can be made but do not exceed the maximum amount per year (12.8 oz per acre). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other turf experts for specific information concerning the timing of application(s). When targeting multiple pests, make application to earliest egg lay or adult flight. The high end of the rate range may be needed if extended control of secondary pests is desired.

Apply *Arena* 50 WDG Insecticide[1] in sufficient water volume (1 to 5 gallons per 1,000 sq ft) to provide optimal distribution in the treated area. The use of properly calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

SPECIMEN

APPLICATION ON TURFGRASS		
PESTS	***ARENA* 50 WDG INSECTICIDE[1] APPLICATION RATES**	**TIMING INSTRUCTIONS**
Annual Bluegrass Weevils (larval stages) Billbugs Black Turfgrass Ataenius *Phyllophaga* spp. (May or June Beetles) Spittle Bugs White Grubs Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	6.4 to 12.8 oz/A (0.2 to 0.4 lb ai/A) 0.14 to 0.29 oz/ 1,000 sq ft 4 to 8.3 grams per 1,000 sq ft	**Preventative Applications:** Make applications through peak egg hatch of target species. Use the upper end of the rate range if application is made 60 days or more prior to peak adult flight and/ or egg lay. **Post egg hatch application:** After egg hatch of the target species has occurred or there is obvious turf damage from the current generation use the upper end of the rate range.
Armyworms Chinch Bugs including: Hairy Southern Crane Fly including: American European Cutworms Nuisance Ants (excluding Fire, Harvester, Carpenter, Pharaoh) Sod Webworms	9.6 to 12.8 oz/A (0.3 to 0.4 lb ai/A) 0.22 to 0.29 oz/ 1,000 sq ft 6.2 to 8.3 grams/ 1,000 sq ft	**Cranefly:** Apply in the spring, when larvae are mature but prior to pupation or in the fall prior to egg hatch. **Other pests:** Apply when pest first appears.
Mole Crickets (suppression)	12.8 oz/A (0.4 lb ai/A) 0.29 oz/1,000 sq ft 8.3 grams/1,000 sq ft	Time application to peak egg lay or early instars. Suppression can either mean control that is not commercially acceptable or inconsistent, ranging from poor to good.

(continued)

SPECIMEN

APPLICATION ON TURFGRASS (continued)
1 level teaspoon contains 3 grams and one cup (8 fl oz) contains 5 oz of *Arena* 50 WDG Insecticide[1]. **RESTRICTIONS** • Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year. • Do not allow this product to contact plants in bloom if bees are foraging the turf area. • Do not allow children and pets to enter treatment area until sprays have dried.

Reduced Rate Application for Summer White Grub Control in Turf		
PESTS	***ARENA* 50 WDG INSECTICIDE APPLICATION RATES**	**TIMING INSTRUCTIONS**
White Grubs European Chafer Japanese Beetle Northern Masked Chafer	4.5 oz/A (0.14 lb ai/A) 0.1 oz/1,000 sq ft 2.8 grams per 1,000 sq ft	Make application between June 1st and July 15th. Make application prior to egg hatch of listed white grub species.
1 level teaspoon contains 3 grams and one cup (8 fl oz) contains 5 oz of *Arena* 50 WDG Insecticide[1]. **RESTRICTION** • Regardless of the application method do not apply more than 0.4 lb active ingredient clothianidin per acre per calendar year.		

SPECIMEN

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a dry place away from excessive heat. Do not store near food or feed. Store in original container only. To close package, replace and tighten cap to form an airtight seal. For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

PESTICIDE DISPOSAL: To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND DISCLAIMER, AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The buyer and user (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

(continued)

SAMPLE

(continued)

The Directions for Use of this product must be followed carefully. Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential, or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY AND DISCLAIMER

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Risks of Using This Product, Limited Warranty and Disclaimer,** and **Limitation of Liability,** which may not be modified by any oral or written agreement.

SPECIMEN

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

SPECIMEN

©2025 Valent U.S.A. LLC

Arena is a registered trademark of Sumitomo Chemical Company, Ltd.
Products That Work, From People Who Care is a registered trademark of Valent U.S.A. LLC

Nufarm

Distributed by:
Nufarm Americas Inc.
11901 S. Austin Ave.
Alsip, IL 60803

Manufactured for:
Valent U.S.A. LLC
P.O. Box 5075
San Ramon CA 94583
Made in U.S.A.
Form 1666-K
EPA Est. 33762-IA-1, 67545-AZ-1Ⓨ, 70989-MO-1Ⓙ, 86555-MO-1Ⓢ
Superscript is first letter in lot number.
059639-00152.20210709.Arena50WDG.AMEND.FINAL
SAL20210723

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-89-VALENT (898-2536).

SPECIMEN

PROFESSIONAL VALENT® PRODUCTS

For state registration and/or supplemental labels, please call or visit us online.

Products That Work, From People Who Care®
valentpro.com | 800-89-VALENT (898-2536)

Always read and follow label instructions.

©2025 Valent U.S.A. LLC. All rights reserved.
Printed in the U.S.A.

Date 7/1/25

Not for Sale, Sale Into, Distribution and/or Use in Nassau, Suffolk, Kings, Queens Counties of New York State unless permitted under FIFRA Section 24(c) Special Local Need Registration.

CHLORANTRANILIPROLE | GROUP 28 | INSECTICIDE

Acelepryn®

syngenta®

Insecticide

For foliar and systemic control of listed insect pests in commercial ornamental nurseries and greenhouses; and commercial sod farms.

For foliar and systemic control of listed insect pests in or on golf courses; sports and recreational turf; lawns and landscaped areas on and around residential, commercial and institutional properties; and interior plantscapes.

EPA Est. No. 46073-TN-003^{NTM}
EPA Est. No. 072344-MO-004^{TRR}

(Superscript is first three letters of batch code on container)

EPA Reg. No. 100-1489

Active Ingredient:	
Chlorantraniliprole*:	18.4%
Other Ingredients	81.6%
Total:	100.0%

*CAS No. 500008-45-7

Chlorantraniliprole belongs to the anthranilic diamide chemical class.

Acelepryn® is formulated as a suspension concentrate that contains 1.67 lb chlorantraniliprole per gallon of product.

Product of USA

KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

SCP 1489A-L1E 0619

0.5 gallon (2 quarts)

Net Contents
Non-refillable Container

syngenta®

TABLE OF CONTENTS

1.0 FIRST AID
2.0 PRECAUTIONARY STATEMENTS
- 2.1 Hazards to Humans and Domestic Animals
- 2.2 Personal Protective Equipment (PPE)
- 2.3 Environmental Hazards

DIRECTIONS FOR USE

3.0 PRODUCT INFORMATION
- 3.1 Use Sites
- 3.2 Plant Safety
- 3.3 Integrated Pest Management (IPM)
- 3.4 Resistance Management

4.0 USE RESTRICTIONS
5.0 APPLICATION DIRECTIONS
- 5.1 Methods of Application
- 5.2 Application Equipment
- 5.3 Application Volume and Spray Coverage
- 5.4 Mixing Directions

6.0 COMMERCIAL ORNAMENTAL PLANT NURSERIES, GREENHOUSES AND SOD FARMS
- 6.1 Commercial Nurseries and Greenhouses
- 6.2 Production of Turfgrass Sod on Commercial Sod Farms

7.0 GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES
- 7.1 Golf Course, Lawn, and Recreational Area Turf
- 7.2 Ornamentals in Outdoor Landscapes and Interior Plantscapes

8.0 ADDITIONAL RATE TABLES
- 8.1 Broadcast Application Dilution Chart
- 8.2 Soil Application Methods (Injection/Drench)

9.0 STORAGE AND DISPOSAL
10.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

1.0 FIRST AID

FIRST AID
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

When used as directed, this product does not present a hazard to humans or domestic animals.

2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

2.2.1 USER SAFETY REQUIREMENTS

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment (PPE). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly with soap and water after handling.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

2.3 Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

2.3.1 SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

2.3.2 GROUNDWATER ADVISORY

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

DIRECTIONS FOR USE

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

Read all label directions before use. All applications must be made according to the use directions that follow or exemptions under FIFRA (Supplemental Labels, Special Local Need Registration, FIFRA Section 18 exemptions).

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse effects due to use of this product.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.

Acelepryn can be applied to use sites that are within the scope of the Worker Protection Standard for agricultural practice, 40 CFR part 170 (see **Section 6.0, Commercial Ornamental Plant Nurseries, Greenhouses, and Sod Farms**), and use sites that are outside of its scope (see **Section 7.0, Golf Courses, Lawns and Landscapes, and Interior Plantscapes**). Refer to the following boxes containing additional guidance regarding **Agricultural Use Requirements** and **Non-Agricultural Use Requirements**. Consult the respective sections for site-specific Use Restrictions.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms (sod farms included), forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Exception: If product is drenched or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. No REI is required following a soil-incorporated or a soil-drench application.

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, sod farms, forests, nurseries, or greenhouses.

Professional applications to golf courses, residential, industrial and commercial lawns and sports fields are not within the scope of the Worker Protection Standard.

Do not enter or allow others to enter the treated area until sprays have dried.

3.0 PRODUCT INFORMATION

3.1 Use Sites

Acelepryn may be applied to control the insect pests that infest turfgrass and ornamental plants listed on the label. Acelepryn may be applied to the following:

3.1.1 USES SUBJECT TO WORKER PROTECTION STANDARDS (SECTION 6)

- The following crops grown for production: Ornamental plants, vines, shrubs and trees; ornamental bulb, corm and tuber crops; conifers (including conifer nurseries) and Christmas trees; and non-bearing fruit and nut trees commercially produced in indoor nurseries; greenhouses; outdoor nurseries (both field-grown and containerized plants); shade houses, lath houses, and hoop houses; and retail nurseries.
- Turfgrass grown on commercial sod farms.

3.1.2 USES NOT SUBJECT TO WORKER PROTECTION STANDARDS (SECTION 7)

- Outdoor landscape ornamentals and interior plantscapes in or around residential, commercial, recreational and institutional properties.
- For use on plants and turfgrasses intended for aesthetic or recreational purposes or climatic modification in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, wildlife plantings, parks, playgrounds, schools, day-care facilities, golf courses, athletic fields, and other landscaped areas. Not for use on plants or turfgrass being grown for sale or other commercial use; commercial seed production; or for research purposes.

3.2 Plant Safety

Certain plant species or cultivars may be sensitive to the final spray solution. If local experience is not available, treat a small number of plants and observe for phytotoxicity for at least one week before treating the entire planting to ensure plant safety.

3.3 Integrated Pest Management (IPM)

Acelepryn is recommended for IPM programs as it does not directly impact natural arthropod predator and parasitoid populations, including ladybird beetles, lacewings, minute pirate bugs and predatory mites. The feeding behavior of predatory beneficial arthropods will aid in extending natural control of other insect and mite pests and will reduce the possibility of secondary pest outbreaks. If Acelepryn is tank-mixed with an insect control product that negatively impacts beneficial arthropods, the full benefit of Acelepryn to the IPM program may not be realized.

3.4 Resistance Management

CHLORANTRANILIPROLE	GROUP	28	INSECTICIDE

For resistance management, Acelepryn contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Acelepryn and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Acelepryn or other Group 28 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classifications are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological, and other chemical control practices.

- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Syngenta at 1-866-SYNGENT(A) (866-796-4368).

Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

4.0 USE RESTRICTIONS

- **DO NOT** use for commercial grass seed production.
- **DO NOT** formulate this product into other end-use products without written permission from Syngenta Crop Protection, LLC.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product with aerial application equipment.
- **DO NOT** apply more than 38.3 fluid ounces (equivalent to 0.5 lb of active ingredient) of Acelepryn per acre per year to plants produced or grown outdoors.
- **DO NOT** apply more than 38.3 fluid ounces (equivalent to 0.5 lb of active ingredient) of Acelepryn per acre per crop to plants produced or grown indoors and outdoors in containers.
- **DO NOT** let people and pets enter the treated area until treatment has dried.
- Not for Sale, Sale Into, Distribution and/or Use in Nassau, Suffolk, Kings, Queens Counties of New York State unless permitted under FIFRA Section 24(c) Special Local Need Registration.

The following restrictions are required to permit use of Acelepryn in the State of New York:

- **Golf course greens and tee boxes: DO NOT** apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- **Golf course fairways: DO NOT** apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- **Other Use Sites: DO NOT** apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

5.0 APPLICATION DIRECTIONS

5.1 Methods of Application

Apply Acelepryn to foliage or to the soil by ground equipment only.

Foliar applications offer locally systemic activity against listed insect pests and can be made with ground application equipment: boom sprayers, and hand-wand and hand-gun sprayers.

Soil applications can be made by soil injection, soil and container drenches, and broadcast, banded and directed sprays using boom sprayers, and hand-wand and hand-gun sprayers. Acelepryn is a systemic product that is translocated upward into the plant from root uptake when applied to the soil. To be effective, apply Acelepryn where the root system of the target plant can readily absorb the active ingredient.

5.2 Application Equipment

5.2.1 CLEANING OF APPLICATION EQUIPMENT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all application equipment to reduce the risk of forming hardened deposits that can become difficult to remove. Drain application equipment. Thoroughly rinse application equipment and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. **DO NOT** clean equipment near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

5.2.2 CALIBRATION OF APPLICATION EQUIPMENT

Proper maintenance and calibration of spraying equipment are essential for optimal insect pest control. If you have questions about calibration, contact a State Extension Service specialist, the equipment manufacturer or other experts.

5.3 Application Volume and Spray Coverage

Acelepryn must be diluted with water before application. Apply in a volume of water that provides good coverage of the foliage or soil, but does not result in run-off or leaching, as specified in the Directions for Use in **Sections 6.0 and 7.0**.

5.4 Mixing Directions

5.4.1 ACELEPRYN ALONE

1. Fill sprayer tank 1/4 to 1/2 full of water.
2. Always shake container well before use.
3. Add the required amount of Acelepryn directly to the sprayer tank.
4. Mix thoroughly to fully disperse and continue agitation to keep the insecticide in suspension. Use mechanical or hydraulic agitation. Do not use air agitation.
5. It is recommended that the mixture is not stored in the spray or mix tank overnight.

5.4.2 TANK-MIX PRECAUTIONS

Acelepryn may be tank-mixed with other pesticides. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

5.4.3 TANK-MIX COMPATIBILITY

The physical compatibility of Acelepryn will vary with different sources of pesticide products and local cultural practices. To ensure the physical compatibility of the mixture, prepare a mix on a small scale (such as a pint or quart jar) using the proper proportions of pesticides and water.

5.4.4 ACELEPRYN IN TANK MIXTURES

Always shake each product container well before use. Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after the addition of each product.

1. Water-soluble bags
2. Water-dispersible granules
3. Wettable powders
4. Acelepryn and other water-based suspension concentrates
5. Water-soluble concentrates
6. Emulsifiable concentrates
7. Adjuvants, surfactants, oils
8. Soluble fertilizers
9. Drift retardants

5.4.5 SPRAY ADDITIVES

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Council of Producers and Distributors of Agrotechnology (CPDA) adjuvant certification is recommended.

When making foliar applications to hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended.

6.0 COMMERCIAL ORNAMENTAL PLANT NURSERIES, GREENHOUSES AND SOD FARMS

Apply Acelepryn to control insect pests on: ornamental plants grown in commercial ornamental nurseries and greenhouses; and on turfgrass produced on sod farms.

Consult your local Syngenta representative, Cooperative Extension Service specialist, or pest control advisor for regionally specific information regarding application timing.

6.1 Commercial Nurseries and Greenhouses

- Apply Acelepryn as a foliar, bark or soil treatment. See **Section 5** for methods of application and **Tables 6.1.1 to 6.1.5** for specific Directions for Use.
- For maximum residual control, apply at highest listed application rate.
- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- For soil applications, apply in a volume of water sufficient to reach the root zone where soil pests are feeding and for systemic uptake (apply Acelepryn to moist soil to achieve even distribution throughout the soil profile).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to the **AGRICULTURAL USE REQUIREMENTS** box for compliance with the Worker Protection standard.

6.1.1 FOLIAR APPLICATIONS

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.

Breeding crops	Foliage plants	Perennial plants
Bulb, corm and tuber crops (such as tulips, calla lilies)	Ground covers	Pot and bedding plants
Evergreens, including conifers	Non-bearing fruit and nut trees[1]	Shrubs
Flowering plants	Ornamental grasses	Succulents
Flowers grown for seed production	Ornamental trees	Vines (non-bearing)[1]
	Palms	

Target Pests	Product Dilution	Application Timing	Use Directions
Leaf-feeding caterpillars, such as bagworms and tussock moth caterpillars, including whitemarked tussock moth	2 - 16 fl oz per 100 gallons (0.026 - 0.208 lb ai per 100 gallons)	Apply preventatively or after caterpillars have been observed. Repeat treatment to maintain control using the higher listed application rates as pest pressure and foliage area increases.	Mix Acelepryn with the required amount of water and apply as a full-coverage foliar spray. When applying to hard-to-wet foliage, such as holly, pine, or ivy, the addition of a spreader/sticker is recommended. If concentrate or mist-type spray equipment is used, apply an equivalent amount of product as would be used in a dilute application.

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft).
2) **Maximum Annual Application Rate:**
   - For indoor ornamental production and outdoor containerized production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (0.88 fl oz of Acelepryn per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. **Do not** apply to more than 6 crops per year.
   - For outdoor, field-grown production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year.
3) **Do not** apply more than once every 7 days.
4) **Do not** apply aerially.
5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

6.1.2 SOIL APPLICATIONS FOR WHITE GRUBS

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.

Breeding crops	Foliage plants	Perennial plants
Bulb, corm and tuber crops (such as tulips, calla lilies)	Ground covers	Pot and bedding plants
Evergreens, including conifers	Non-bearing fruit and nut trees[1]	Shrubs
Flowering plants	Ornamental grasses	Succulents
Flowers grown for seed production	Ornamental trees	Vines (non-bearing)[1]
	Palms	

Target Pests	Product Use Rate	Application Timing	Use Directions
White grubs, including Asiatic garden beetle, European chafer, green June beetle, Japanese beetle, May/June beetles (*Phyllophaga* spp.), northern masked chafer, oriental beetle and southern masked chafer	0.18 – 0.37 fl oz per 1000 sq ft 8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Apply using 1-2 pts water or greater per sq ft of soil surface. Irrigate immediately after application or allow rainfall to move the product into the soil.

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft)
2) **Maximum Annual Application Rate:**
   - **Do not** apply more than 38.3 fl oz of Acelepryn per acre (0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year
3) **Do not** apply more than once every 7 days.
4) **Do not** apply aerially.
5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

6.1.3 SYSTEMIC SOIL TREATMENTS

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.

Evergreens, including conifers	Non-bearing fruit and nut trees[1]	Palms
Foliage plants	Ornamental trees	Shrubs

Target Pests	Product Use Rate[2]	Application Timing	Use Directions
Lace bugs Aphids, including apple aphid	0.0625 - 0.25 fl oz (0.00082 to 0.0033 lb ai) per inch DBH of tree or per foot of height of shrub	When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to pest infestation to achieve best control.	Application can be made by soil injection, soil drenches, and broadcast sprays. Apply Acelepryn within 1-3 feet of the root flare of trees and shrubs. Apply product in sufficient water volume to reach the root zone for optimal systemic uptake. Refer to **Section 8.2** for additional information on soil injection and soil drench applications.
Birch leafminer	0.25 fl oz (0.0033 lb ai) per inch DBH of tree or per foot of height of shrub		

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft).
2) **Maximum Annual Application Rate:**
   - For indoor production and outdoor containerized production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (0.88 fl oz per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. **Do not** apply to more than 6 crops per year.
   - For outdoor, field-grown production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year
3) **Do not** apply more than once every 7 days.
4) **Do not** apply aerially.
5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

[2]Amount of Acelepryn per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs. See restrictions regarding the number of tree or shrubs that can be treated per acre in the following tables.

Maximum number of trees that can be treated per acre at the listed rates.

Amount of Acelepryn to be applied per inch DBH[1]	Diameter at breast height (DBH) of tree[1]					
	1 inch	2 inches	3 inches	4 inches	5 inches	6 inches
0.0625 fl oz	613	306	204	153	123	102
0.25 fl oz	153	77	51	38	31	26

[1]For trees with a DBH greater than 6 inches, **do not** apply more than 1.5 fl oz per plant. Dilute the required amount of Acelepryn in a volume of water that ensures coverage (see Section 5.0 for additional application instructions).

Maximum number of shrubs that can be treated per acre at the listed rates.

Amount of Acelepryn to be applied per foot height of shrub[1]	Height of shrub[1]					
	1 foot	2 feet	3 feet	4 feet	5 feet	6 feet
0.0625 fl oz	613	306	204	153	123	102
0.25 fl oz	153	77	51	38	31	26

[1]For shrubs with a height greater than 6 feet, **do not** apply more than 1.5 fl oz per plant. Dilute the required amount of Acelepryn in a volume of water that ensures coverage (see Section 5.0 for additional application instructions).

6.1.4 BARK APPLICATIONS

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.			
Evergreens, including conifers Foliage plants	Non-bearing fruit and nut trees[1] Ornamental trees		Palms Shrubs
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
Clearwing moth borer larvae, including peachtree borer	4 fl oz - 32 fl oz per 100 gallons (0.052 - 0.416 lb ai per 100 gallons)	Make applications after the emergence of adult moths and before their eggs hatch. Adult emergence varies according to pest species, host tree, environmental conditions and geographic location. Consult local Cooperative Extension Service specialist or pest control advisor for regionally specific information regarding application timing.	Apply Acelepryn to the trunks and lower branches of trees and shrubs to control clearwing moth borer larvae. Thorough surface spray coverage of the bark is required for control. Apply until bark is soaked thoroughly, but not to the point of runoff.
USE RESTRICTIONS			
1) **Maximum Single Application Rate:** • **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft). 2) Maximum Annual Application Rate: • **Do not** apply more than 38.3 fl oz of Acelepryn per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year. 3) **Do not** apply more than once every 7 days. 4) **Do not** apply aerially. 5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.			

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

6.1.5 CONTAINER DRENCH APPLICATIONS

Ornamentals commercially produced in indoor nurseries, outdoor nurseries (both field-grown and containerized plants), greenhouses, shade houses, lath houses, and hoop houses.			
Evergreens, including conifers Foliage plants	Non-bearing fruit and nut trees[1] Ornamental trees		Palms Shrubs
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
White grubs, including Asiatic garden beetle European chafer Green June beetle Japanese beetle May/June beetles (*Phyllophaga* spp.) Northern masked chafer Oriental beetle Southern masked chafer	8 – 16 fl oz per 100 gallons (0.104 - 0.208 lb ai per 100 gallons)	For best control, apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Mix required dose in water and uniformly apply the drench solution to the container surface. Apply the solution to wet the entire container without leaching.
Lace bugs Aphids, including apple aphid	8 – 32 fl oz per 100 gallons (0.104 - 0.416 lb ai per 100 gallons)	To control above-ground pests, especially those with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Applications should be made prior to anticipated pest infestation to achieve best control	Apply the drench solution uniformly to the soil to wet the entire container without leaching.
USE RESTRICTIONS			
1) **Maximum Single Application Rate:** • **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft). 2) **Maximum Annual Application Rate:** • For indoor production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (0.88 fl oz of Acelepryn per 1000 sq ft) per crop or 0.5 lb ai per acre per crop from any chlorantraniliprole-containing products. **Do not** apply to more than 6 crops per year • For outdoor production, **do not** apply more than 38.3 fl oz of Acelepryn per acre (or 0.5 lb ai per acre from any chlorantraniliprole-containing products) per calendar year. 3) **Do not** apply more than once every 7 days. 4) **Do not** apply aerially. 5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.			

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

6.2 Production of Turfgrass Sod on Commercial Sod Farms

- For maximum residual control or heavy pest pressure, apply up to 20 fl oz per acre to control any of the pests listed in **Table 6.2.1**.
- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to **Section 8.1** for the **Broadcast Application Dilution Chart**.
- Refer to the **AGRICULTURAL USE REQUIREMENTS** box for compliance with the Worker Protection standard.

6.2.1 BROADCAST APPLICATIONS

Turfgrass sod produced on commercial sod farms		
Target Pests	**Product Use Rate**	**Application Information**
Annual bluegrass weevil	12 – 20 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply when overwintered adult annual bluegrass weevils are observed in late April or early May to prevent damage from first-generation larvae in late May and June. The higher rates listed may be required for applications made after mid-May. An application at this time will also provide white grub control.
Billbugs	8 – 20 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply when overwintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrass. The higher rates listed may be required for applications made after early May or when billbug species other than bluegrass billbug are present. An application at this time will also provide white grub control.
European crane fly (larvae)	8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two-lined)	12 – 20 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply in spring or summer.
Turf caterpillars, including armyworms, cutworms, and sod webworms	2 – 4 fl oz per acre (0.026 – 0.052 lb ai per acre)	Apply preventatively or after caterpillars have been observed. To ensure best control, delay water (irrigation) or mowing for 24 hours after application. If the area being treated is maintained at a mowing height greater than one inch, the higher rate listed may be required during periods of high pest pressure.
White Grubs, including *Aphodius* spp., Asiatic garden beetle, black turfgrass ataenius, European chafer, green June beetle, Japanese beetle, May/June beetles (*Phyllophaga* spp.), northern masked chafer, oriental beetle and southern masked chafer)	8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply from early April to early September for preventative control. The higher rate listed may be required [for early-season (April and May) applications where a long residual is required or] in late August or early September when less-sensitive mid-instar grubs are present at the time of application. Irrigate turf immediately after application or allow rainfall to move the product into the soil. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.
Suppression: Chinch bugs	8 – 20 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply before eggs hatch.
USE RESTRICTIONS		
1) **Maximum Single Application Rate:** • **Do not** apply more than 20 fl oz of Acelepryn per acre (0.46 fl oz of Acelepryn per 1000 sq ft) 2) **Maximum Annual Application Rate:** • **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products) 3) **Do not** apply more than once every7 days. 4) **Do not** apply aerially. 5) **Do not** enter or allow worker entry into treated areas during the restricted entry interval of 4 hr.		

7.0 GOLF COURSES, LAWNS AND LANDSCAPES, AND INTERIOR PLANTSCAPES

Apply Acelepryn to control listed insect pests of turf and ornamental plants grown in, on or around golf courses, lawns and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields and interior plantscapes.

7.1 Golf Course, Lawn, and Recreational Area Turf

Apply Acelepryn to control listed insect pests of turf and ornamental plants grown in, on or around golf courses, lawns and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields and interior plantscapes.

- For maximum residual control or heavy pest pressure, apply at rates up to 20 fl oz per acre to control any of the pests listed in **Table 7.1.1**.
- Apply as a broadcast spray using a boom sprayer, hand-gun sprayer or similar ground equipment.
- Apply in a volume of water sufficient to uniformly cover the area being treated (a minimum of 2 gallons per 1,000 square feet).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.
- Refer to **Section 8.1** for the **Broadcast Application Dilution Chart** and **Section 8.2** for soil application directions.

7.1.1 BROADCAST APPLICATIONS

Turfgrass in golf courses, lawns on residential or commercial properties, and other recreational areas

Target Pests	Product Use Rate	Application Information
Annual bluegrass weevil	0.28 – 0.46 fl oz per 1000 sq ft 12 – 20 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply when overwintered adult annual bluegrass weevils are observed in late April or early May to prevent damage from first-generation larvae in late May and June. The higher rates listed may be required for applications made after mid-May. An application at this time will also provide white grub control.
Billbugs	0.18 – 0.46 fl oz per 1000 sq ft 8 – 20 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply when overwintered adult billbugs are observed in late April or early May in regions with cool-season turfgrass. The higher rates listed may be required for applications made after early May or when billbug species other than bluegrass billbug are present. An application at this time will also provide white grub control.
European crane fly (larvae)	0.18 – 0.37 fl oz per 1000 sq ft 8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply between September and November. The higher rate listed may be required to achieve control when applications are made in November.
Spittlebugs (two-lined)	0.28 – 0.46 fl oz per 1000 sq ft 12 – 20 fl oz per acre (0.157 – 0.26 lb ai per acre)	Apply in spring or summer.
Turf caterpillars, including armyworms, cutworms, and sod webworms	0.05 – 0.09 fl oz per 1000 sq ft 2 – 4 fl oz per acre (0.026 – 0.052 lb ai per acre)	Apply preventatively or after caterpillars have been observed. To ensure best control, delay water (irrigation) or mowing for 24 hours after application. If the area being treated is maintained at a mowing height greater than one inch, the higher rate listed may be required during periods of high pest pressure.
White Grubs, including *Aphodius* spp., Asiatic garden beetle, black turfgrass ataenius, European chafer, green June beetle, Japanese beetle, May/June beetles (*Phyllophaga* spp.), northern masked chafer, oriental beetle and southern masked chafer)	0.18 – 0.37 fl oz per 1000 sq ft 8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	Apply from early April to early September for preventative control. The higher rate listed may be required [for early-season (April and May) applications where a long residual is required or] in late August or early September when less-sensitive mid-instar grubs are present at the time of application. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods. Irrigate turf immediately after application or allow rainfall to move the product into the soil.
Suppression: Chinch bugs	0.18 – 0.46 fl oz per 1000 sq ft 8 – 20 fl oz per acre (0.104 – 0.26 lb ai per acre)	Apply before eggs hatch.

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 20 fl oz of Acelepryn per acre (0.46 fl oz of Acelepryn per 1000 sq ft)
2) **Maximum Annual Application Rate:**
   - **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products)
3) **Do not** apply more than once every 7 days.
4) **Do not** enter or allow others to enter treated areas until sprays have dried.

7.2 Ornamentals in Outdoor Landscapes and Interior Plantscapes

- Apply Acelepryn as a foliar, bark or soil treatment to control listed insect pests. See **Table 7.2.1 to 7.2.5** for specific Directions for Use.
- For maximum residual control, apply at highest listed rate.
- Apply in a volume of water sufficient to cover the area being treated (a minimum of 1 gallon per 1,000 square feet).
- Use properly calibrated application equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift.

7.2.1 FOLIAR APPLICATIONS

Ornamentals in outdoor landscapes and interior plantscapes

Bulb, corm and tuber crops (such as tulips, calla lilies)	Foliage plants	Palms
Evergreens, including conifers	Ground covers	Perennial plants
Flowering plants	Non-bearing fruit and nut trees[1]	Shrubs
	Ornamental grasses	Succulents
	Ornamental trees	Vines (non-bearing)[1]

Target Pests	Product Dilution	Application Timing	Application Information
Leaf-feeding caterpillars, such as bagworms and tussock moth caterpillars, including whitemarked tussock moth	2 - 16 fl oz per 100 gallons (0.026 - 0.208 lb ai per 100 gallons)	Apply preventatively or after caterpillars have been observed. Repeat treatment to maintain control using the higher listed application rates as pest pressure and foliage area increases.	Apply in a minimum spray volume of 1 gallon 1000 sq ft as a full coverage foliar spray to control the target pests. If concentrate or mist-type spray equipment is used, apply an equivalent amount of product on the treated area as would be used in a dilute application. For hard-to-wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended.

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft)
2) **Maximum Annual Application Rate:**
   - **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of any chlorantraniliprole-containing products)
3) **Do not** apply more than once every 7 days.
4) **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

7.2.2 SOIL APPLICATIONS FOR WHITE GRUBS

Ornamentals in outdoor landscapes and interior plantscapes

Bulb, corm and tuber crops (such as tulips, calla lilies)	Ground covers	Perennial plants
Evergreens, including conifers	Non-bearing fruit and nut trees[1]	Shrubs
Flowering plants	Ornamental grasses	Succulents
Foliage plants	Ornamental trees	Vines (non-bearing)[1]
	Palms	

Target Pests	Product Use Rate	Application Timing	Application Information
White grubs, including Asiatic garden beetle, European chafer, green June beetle, Japanese beetle, May/June beetles (*Phyllophaga* spp.), northern masked chafer, oriental beetle and southern masked chafer	0.18 – 0.37 fl oz per 1000 sq ft 8 – 16 fl oz per acre (0.104 – 0.208 lb ai per acre)	For best control, apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Apply in sufficient water to uniformly cover the area being treated as a broadcast or banded treatment (a minimum of 2 gal per 1,000 sq ft). Irrigate immediately after application or allow rainfall to move the product into the soil.

USE RESTRICTIONS

1) **Maximum Single Application Rate:**
   - **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft)
2) **Maximum Annual Application Rate:**
   - **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products)
3) **Do not** apply more than once every 7 days.
4) **Do not** enter or allow others to enter the treated area until sprays have dried.

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

7.2.3 SYSTEMIC SOIL TREATMENTS

Ornamentals in outdoor landscapes and interior plantscapes			
Evergreens, including conifers Non-bearing fruit and nut trees[1] Ornamental trees Palms Shrubs			
Target Pests	**Product Use Rate[2]**	**Application Timing**	**Use Directions**
Lace bugs Aphids, including apple aphid	0.0625 - 0.25 fl oz (0.00082 to 0.0033 lb ai) per DBH of tree or foot of height of shrub	When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Make applications prior to pest infestation to achieve best control.	Application can be made by soil injection, soil drenches, and broadcast sprays. To be effective, Acelepryn must be placed within 1-3 feet of the root flare of trees and shrubs with sufficient solution volume to reach the root zone for optimal systemic uptake.
Birch leafminer	0.25 fl oz (0.0033 lb ai) per DBH of tree or foot of height of shrub		
USE RESTRICTIONS			
1) **Maximum Single Application Rate:** • **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft) 2) **Maximum Annual Application Rate:** • **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products) 3) **Do not** apply more than once every 7 days. 4) **Do not** enter or allow others to enter the treated area until sprays have dried.			

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

[2]Amount of Acelepryn per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs

Maximum number of trees that can be treated per acre at the listed rates.						
Amount of Acelepryn to be applied per inch DBH[1]	**Diameter at breast height (DBH) of tree[1]**					
	1 inch	**2 inches**	**3 inches**	**4 inches**	**5 inches**	**6 inches**
0.0625 fl oz	613	306	204	153	123	102
0.25 fl oz	153	77	51	38	31	26

[1]For trees with a DBH greater than 6 inches, **do not** apply more than 1.5 fl oz of Acelepryn per plant. Dilute the required amount of Acelepryn in a volume of water that ensures adequate coverage (see Section 5.0 for additional application instructions).

Maximum number of shrubs that can be treated per acre at the listed rates.						
Amount of Acelepryn to be applied per foot height of shrub[1]	**Height of shrub[1]**					
	1 foot	**2 feet**	**3 feet**	**4 feet**	**5 feet**	**6 feet**
0.0625 fl oz	613	306	204	153	123	102
0.25 fl oz	153	77	51	38	31	26

[1]For shrubs with a height greater than 6 feet, **do not** apply more than 1.5 fl oz of Acelepryn per plant. Dilute the required amount of Acelepryn in a volume of water that ensures coverage (see Section 5.0 for additional application instructions).

7.2.4 BARK APPLICATIONS

Ornamentals in outdoor landscapes and interior plantscapes			
Evergreens, including conifers Non-bearing fruit and nut trees[1] Ornamental trees Palms Shrubs			
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
Clearwing moth borer larvae, including peachtree borer	4 fl oz - 32 fl oz per 100 gallons (0.052 - 0.416 lb ai per 100 gallons)	Make applications after the emergence of adult moths and before their eggs hatch. Consult local Cooperative Extension Service specialist or pest control advisor for information regarding application timing in your area.	Apply Acelepryn to the trunks and lower branches of trees and shrubs to control clearwing moth borer larvae. Thorough surface spray coverage of the bark is required for control. Apply until bark is soaked thoroughly, but not to the point of runoff.
USE RESTRICTIONS			
1) **Maximum Single Application Rate:** • **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft) 2) **Maximum Annual Application Rate:** • **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products) 3) **Do not** apply more than once every 7 days. 4) **Do not** enter or allow others to enter the treated area until sprays have dried.			

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

7.2.5 CONTAINER DRENCH APPLICATIONS

Ornamentals in outdoor landscapes and interior plantscapes			
Evergreens, including conifers Foliage plants Non-bearing fruit and nut trees[1] Ornamental trees Palms Shrubs			
Target Pests	**Product Dilution**	**Application Timing**	**Application Information**
White grubs, including Asiatic garden beetle European chafer Green June beetle Japanese beetle May/June beetles (*Phyllophaga* spp.) Northern masked chafer Oriental beetle Southern masked chafer	8 – 16 fl oz per 100 gallons (0.104 - 0.208 lb ai per 100 gallons)	For optimal control, apply immediately prior to egg hatch. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping, or other methods.	Mix required dose in water and uniformly apply the drench solution to the soil surface. Apply a sufficient quantity of solution to drench the entire root zone.
Lace bugs Aphids, including apple aphid	8 – 32 fl oz per 100 gallons (0.104 - 0.416 lb ai per 100 gallons)	When making drench applications to plants, especially those with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. This delay could be 60 days or longer. Make applications prior to pest infestation to achieve best control.	Mix required dose in water and uniformly apply the drench solution to the soil surface. Apply a sufficient quantity of solution to drench the entire root zone.
USE RESTRICTIONS			
1) **Maximum Single Application Rate:** • **Do not** apply more than 16 fl oz of Acelepryn per acre (0.37 fl oz of Acelepryn per 1000 sq ft) 2) **Maximum Annual Application Rate:** • **Do not** apply more than 38.3 fl oz of Acelepryn per acre per calendar year (0.5 lb ai per acre per calendar year of chlorantraniliprole-containing products) 3) **Do not** apply more than once every 7 days. 4) **Do not** enter or allow others to enter the treated area until sprays have dried.			

[1]Non-bearing fruit and nut trees and vines are those trees and vines that will not bear edible fruit or nuts for one year after application.

8.0 ADDITIONAL RATE TABLES

8.1 Broadcast Application Dilution Chart

This table provides mixing instructions to produce 1, 5, 10, and 100 gallons of finished (diluted Acelepryn) spray solution on both a per acre and per 1000 sq ft basis. For example, if you want to apply Acelepryn at the 4 fl oz per acre rate in a spray volume of 1 gallon of finished spray per 1000 sq ft, add 0.92 fl oz of Acelepryn to 10 gallons of water and mix thoroughly according to the mixing directions in Section 5.4 (10 gallons of finished spray will cover 10,000 sq ft).

Note: 1 gallon per 1000 sq ft = 44 gallons per acre.

Application Spray Volume (gallons per 1,000 sq ft)	Product Application Rates			Fluid ounces of Acelepryn diluted to these volumes of finished spray			
	fl oz Acelepryn per acre	fl oz Acelepryn per 1,000 sq ft	lb ai per acre	1 gallon	5 gallons	10 gallons	100 gallons
1	1	0.02	0.013	0.02	0.12	0.23	2.3
	2	0.05	0.026	0.05	0.23	0.46	4.6
	4	0.09	0.052	0.09	0.46	0.92	9.2
	8	0.18	0.104	0.18	0.92	1.84	18.4
	16	0.37	0.208	0.37	1.84	3.67	36.7
	20	0.46	0.260	0.46	2.30	4.60	46.0
2	1	0.02	0.013	0.01	0.06	0.12	1.15
	2	0.05	0.026	0.02	0.12	0.23	2.30
	4	0.09	0.052	0.05	0.23	0.46	4.60
	8	0.18	0.104	0.09	0.46	0.92	9.20
	16	0.37	0.208	0.18	0.92	1.84	18.4
	20	0.46	0.260	0.23	1.15	2.30	23.0
3	1	0.02	0.013	0.01	0.04	0.08	0.77
	2	0.05	0.026	0.02	0.08	0.15	1.50
	4	0.09	0.052	0.03	0.15	0.30	3.00
	8	0.18	0.104	0.06	0.31	0.60	6.00
	16	0.37	0.208	0.12	0.62	1.23	12.3
	20	0.46	0.260	0.15	0.77	1.53	15.3
4	1	0.02	0.013	0.006	0.03	0.06	0.58
	2	0.05	0.026	0.01	0.06	0.12	1.15
	4	0.09	0.052	0.02	0.12	0.23	2.30
	8	0.18	0.104	0.05	0.23	0.46	4.60
	16	0.37	0.208	0.09	0.46	0.92	9.20
	20	0.46	0.260	0.12	0.58	1.15	11.5
5	1	0.02	0.013	0.005	0.02	0.05	0.46
	2	0.05	0.026	0.009	0.05	0.09	0.92
	4	0.09	0.052	0.018	0.09	0.18	1.84
	8	0.18	0.104	0.037	0.18	0.37	3.70
	16	0.37	0.208	0.074	0.37	0.74	7.40
	20	0.46	0.260	0.092	0.46	0.92	9.20
10	1	0.02	0.013	0.002	0.01	0.02	0.23
	2	0.05	0.026	0.005	0.02	0.05	0.46
	4	0.09	0.052	0.009	0.05	0.09	0.92
	8	0.18	0.104	0.018	0.09	0.18	1.84
	16	0.37	0.208	0.037	0.18	0.37	3.67
	20	0.46	0.260	0.046	0.23	0.46	4.60

- To convert from fluid ounces to milliliters, multiply by 29.57.
- 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
- Do not use household utensils to measure Acelepryn.

8.2 Soil Application Methods (Injection/Drench)

The calculations for soil injection/drench applications of Acelepryn to trees and shrubs involve the following steps:

Step 1: Calibrate the application equipment to determine the specified flow rate in gallons per minute.

Step 2: Select an injection/drench volume per inch of tree diameter at breast height (DBH) or foot of shrub height.

Step 3: Refer to **Table 8.2.1** to determine the amount of time that is required to deliver the specified volume per injection/drench site (see sections 6.1.3 or 7.2.3).

Step 4: Determine how much solution to mix.

Step 5: Refer to **Table 8.2.2** to determine the amount of Acelepryn that must be mixed in the desired volume of water based on the injection/drench volume identified above.

8.2.1 CALIBRATION CHART FOR SOIL APPLICATION (INJECTION/DRENCH)

Volume per Tree or Shrub	Flow Rate (Gallons per minute) and Time to Apply (Seconds)					
	0.5 gallon	0.75 gallon	1 gallon	1.5 gallons	2 gallons	3 gallons
1 pint	15.0 sec	10.0 sec	7.5 sec	5.0 sec	3.75 sec	2.5 sec.
1 quart	30.0 sec	20.0 sec	15.0 sec	10.0 sec	7.5 sec	5.0 sec
2 quarts	1.0 min	40.0 sec	30.0 sec	20.0 sec	15.0 sec	10.0 sec
1 gallon	2.0 min	1 min 20 sec	1.0 min	40.0 sec	30.0 sec	20.0 sec

- To convert from fluid ounces to milliliters, multiply by 29.57.
- 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
- Do not use household utensils to measure Acelepryn.

8.2.2 MIXING CHART FOR SOIL APPLICATION (INJECTION/DRENCH)

Volume per Tree or Shrub	Application Rate* (fl oz)	fl oz Product per 100 Gallons	fl oz Product per 50 Gallons	fl oz Product per 25 Gallons	fl oz Product per 10 Gallons	fl oz Product per 1 Gallon
1 pint	0.0625	50	25	12.5	5	0.5
	0.25	200	100	50	20	2
1 quart	0.0625	25	12.5	6.25	2.5	0.25
	0.25	100	50	25	10	1
2 quarts	0.0625	12.5	6.25	3.125	1.25	0.125
	0.25	50	25	12.5	5	0.5
1 gallon	0.0625	6.25	3.125	1.56	0.625	0.0625
	0.25	25	12.5	6.25	2.5	0.25

*Amount of Acelepryn per inch of diameter at breast height (DBH) for trees or per foot of height for shrubs

- To convert from fluid ounces to milliliters, multiply by 29.57.
- 1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
- Do not use household utensils to measure Acelepryn.

9.0 STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage

Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

Pesticide Disposal

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with chlorantraniliprole only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

10.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Acelepryn®, the ALLIANCE FRAME
the SYNGENTA Logo and the PURPOSE ICON
are Trademarks of a Syngenta Group Company

©2019 Syngenta

For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1489A-L1E 0619