10182-408

6-22-2000

UNITED STATE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JIN 22 2000

Michele Schulz Zeneca Ag Products 1800 Concord Pike P.O. Box 15458 Wilmington, Delaware 19850-5458

Subject: Heritage Fungicide EPA Registration Number 10182-408 Your amended labeling dated April 11, 2000

Dear Ms. Schulz,

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We have reviewed the subject amended labeling, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended. The amended labeling is acceptable, provided that:

1. You make the following changes in the label:

- a. Clarify the statements referring to use in New York State (page 5). Either change "Heritage Flowable" to "Heritage Fungicide" or else clarify what "Heritage Flowable" is.
- As a result of a recent change in Worker Protection Standard (WPS) labeling regarding the use of the term "waterproof glove", add "Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for
- Category A on an EPA chemical resitance category selection chart.", and change "waterproof gloves" to "chemical-resistant gloves made of any waterproof material" in the Personal Protective Equipment (PPE) statements and in the Agricultural Use Requirements box.
- 2. You submit one copy of your final printed label before you release product bearing this amended labeling for shipment.

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

Cal Snable for

Cynthia L. Giles Parker Product Manager (22) Fungicide Branch Registration Division (7505C) 2157

Attachment: Label stamped "ACCEPTED with COMMENTS"

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> ACCEPTED with COMMENTS In EPA Letter Dated

HERITAGE[®] FUNGICIDE

JUN 2 2 2000 Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 20182-908

Broad spectrum fungicide for control of plant diseases.

ACTIVE INGREDIENT:

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Azoxystrobin: methyl (<u>E</u>)-2-{2-[6-(2-cyanophenoxy)	
pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate*	50%
INERT INGREDIENTS:	<u>50%</u>
TOTAL	

Contains 0.5 lb. ai/lb. product *IUPAC

EPA REG NO. 10182-408 EPA EST. NO. NET WT. 1 lb. (.4 kg) 2 lbs. (.9 kg)

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE FOR STATEMENT OF PRACTICAL TREATMENT AND PRECAUTIONARY STATEMENTS

Reformulation is prohibited. See individual container labels for repackaging limitations.

Manufactured in the UK for distribution by: Zeneca Ag Products, Inc. Wilmington DE 19850-5458

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STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC, 1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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HARMFUL IF ABSORBED THROUGH SKIN. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

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

USER SAFETY RECOMMENDATIONS

Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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.

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ENVIRONMENTAL HAZARDS

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The active ingredient, Azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or federal authorities and Zeneca Ag Products, Inc. immediately if you observe any adverse environmental effects due to use of this product.

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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 should 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 ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

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ZENECA 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA 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 ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

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

HERITAGE Fungicide use on ornamentals is prohibited in Nassau and Suffolk counties in New York State. In the remainder of the state, read and follow all applicable directions, restrictions and precautions on the EPA-registered HERITAGE Flowable product label.

AGRICULTURAL USES

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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 and exceptions pertaining to the statements 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 worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to 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:

- Goveralls
- Waterproof gloves
- Shoes plus socks

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NON-AGRICULTURAL USES

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For use to control diseases on turf and ornamentals on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

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. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated with HERITAGE is dry.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Plastic Containers: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

Paper/Box Container: Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in sanitary landfill, or alternatives allowed by State and local authorities.

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GENERAL INFORMATION

HERITAGE[®] is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. HERITAGE may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered, crop protection products. All applications should be made according to the use directions that follow. See Directions regarding TANKMIXES/COMPATIBILITY.

GENERAL USE PRECAUTIONS

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Do not graze or feed clippings from treated turf areas to animals. Crops in this label may be planted immediately after last treatment. Do not plant other crops within 45 days after last application.

ATTENTION

HERITAGE is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray HERITAGE where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply HERITAGE to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties. Please see Table 5 for list of Intolerant Plants.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

INTEGRATED PEST (DISEASE) MANAGEMENT

HERITAGE should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. The SPECIFIC USE DIRECTIONS section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural, turf and ornamental authorities for additional IPM strategies established for your area. HERITAGE may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

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RESISTANCE MANAGEMENT

A disease management program that includes alternation or tankmixes between HERITAGE and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from developing resistance to HERITAGE. HERITAGE should not be alternated or tankmixed with fungicides to which resistance has already developed.

Zeneca has adopted the FRAC guidelines for strobilurin fungicide usage to prevent development of resistance. These guidelines promote a maximum of three sequential strobilurin sprays before switching to alternative chemistry. FRAC guidelines also limit the strobilurin sprays per crop per season to 50 percent of the total sprays, if more than three sprays are required.

Continual use of HERITAGE may allow less sensitive strains of pathogens to increase in the population and reduce the efficacy of HERITAGE. Since HERITAGE is a strobilurin fungicide, avoid alternation with other strobilurins, such as kresoxim-methyl and trifloxystrobin.

Since pathogens differ in their potential to develop resistance to fungicides, the SPECIFIC USE DIRECTIONS section in this label provides resistance management strategies specific for each crop and disease. Consult your local or state agricultural, turf and ornamental authorities for resistant management strategies that are complementary to those in this label. HERITAGE is not cross resistant with other classes of fungicides which have different modes of action.

SPRAYING/MIXING

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HERITAGE may be applied with all types of spray equipment commonly used for making ground and aerial applications. Do not apply HERITAGE through any type of ultra low volume (ULV) spray system (less than 3 gallons per acre). Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

For ground applications, apply HERITAGE in sufficient water volume for adequate coverage and canopy penetration. For aerial applications to non-orchard crops, apply HERITAGE in a minimum of three gallons of water per acre. For aerial applications in orchard crops, apply HERITAGE in a minimum of ten gallons of water per acre. Where feasible ground application should be used because it provides better canopy penetration and coverage.

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of HERITAGE to the tank, allowing time for good dispersion, then add an adjuvant, if recommended. If tankmixes are required, product should be added to the spray tank in the following order: HERITAGE, other WG or dry flowable formulations, wettable powders and flowable (aqueous suspensions) products. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up

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only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application. Do not use silicone based products with HERITAGE Fungicide due to possible phytotoxicity.

SPRAY DRIFT MANAGEMENT

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ATTENTION

HERITAGE is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray HERITAGE where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply HERITAGE to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties. Please see Table 5 for list of Intolerant Plants.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat.

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Directions for Use Through Sprinkler and Drip Irrigation Systems

Spray Preparation: Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Application Instructions: Apply HERITAGE at rates and timings as described in this label.

Use Precautions for Sprinkler and Drip Irrigation Applications:

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HERITAGE may be applied through drip irrigation systems to potted ornamentals or to bedded, field grown ornamentals for soil-borne disease control. Apply 2-16 oz HERITAGE per acre as a preventative disease application. The soil or potting media should have adequate moisture capacity prior to drip application.

Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, subsequent irrigation (water only) should be delayed for at least for 24 hours following drip application.

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system except as specified on this label.

Apply with center pivot or continuous-move equipment distributing ½ acre-inch or less during treatment. In general, use the least amount of water required for proper distribution and coverage. If stationary systems (solid set, handlines or wheel lines other than continuous-move) are used, this product should be injected into no more than the last 20-30 minutes of the set. Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips. Do not apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.

If you have questions about calibration you should contact State Extension Service specialist, equipment manufacturers or other experts.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

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The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

Specific Instructions for Public Water Systems:

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1. "Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year."

2. "Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe."

3. "The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump."

4. "The pesticide injection pipeline must contain a functional, normally closed, solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down."

5. "The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected."

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6. "Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump)effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock."

7. "Do not apply when wind speed favors drift beyond the area intended for treatment."

TANK MIXES/COMPATIBILITY

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HERITAGE is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural or turf authorities for compatibility information. Do not combine HERITAGE in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use. If physical compatibility is unknown, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

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DIRECTIONS FOR APPLICATION

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Crop	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Almonds	Alternaria leaf and fruit spot (Alternaria alternata) Anthracnose (Colletotrichum acutatum) Brown Rot Blossom Blight (Monilinia laxa, M. fructicola) Leaf Blight (Seimatosporium lichenicola) Leaf rust (Tranzschelia discolor) Scab (Cladosporium carpophilum) Shothole (Wilsonomyces carpophilus)	3.2-8.0 (0.10-0.25)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation. Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. For all other almond diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. For all other almond diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year. Application Directions: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. For blossom blight begin applications at early bloom and continue through petal fall. For anthracnose, scab and shothole begin applications prior to disease development and continue at 10-14 day intervals throughout the season. Do not apply more than 3.0 pounds product/acre/season (1.5 lb. ai/A). Do not apply within 28 days of harvest.
Apricots	See Stone Fruit	Þ	f

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Bananas Plantains	Black Sigatoka (Mycosphaerella fijiensis) Yellow Sigatoka (Mycosphaerella musicola)	2.9-4.3 (0.09-0.135)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes canopy management through removal of suckers, proper plant spacing, selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, and good surface water drainage. Resistance Management: Do not apply more than two sequential sprays of HERITAGE before alternating
			with a fungicide that has a different mode of action. Do not make more than eight applications of HERITAGE per acre per year. <u>Application Directions</u> : HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season every 12-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.
			Do not apply more than 2.16 pounds product/acre/season (1.08 lb ai/A). May be applied the day of harvest.
Post Harvest Applications	Crown Rot/Crown Mold (Colletotrichum musae, Fusarium pallidoroseum, Acremonium spp., Ceratocystis paradoxa, Glomerella cingulata), Penicillium spp.	300-400 ppm solution	Apply HERITAGE as a single application spray of a 300-400 ppm solution to achieve good coverage, spray should be directed at the cut ends of the bananas. Alum (1% w/v) should be added to the spray solution. Application of the 300 ppm rate is appropriate for short distance transportation(e.g. within the USA), when a longer time in transport is expected (export) use the 400 ppm rate.

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Сгор	Target Diseases	Use Rate oz product/A (ib ai/A)	Remarks
Canola	Blackleg (Leptosphaeria maculans) Alternaria Blackspot (Alternaria spp) Sclerotinia stem rot (Sclerotinia sclerotiorum)	3.2-8.0 (0.1-0.25)	Integrated Pest (Disease)Management HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, certified seed, seed treatment and crop rotation. Resistance Management Do not make more than three applications of HERITAGE per acre per year. Application Directions: For blackleg, HERITAGE applications should be made at the 2-4 leaf stage. For Alternaria or Sclerotinia, 8.0 oz product/A should be applied at 10-25% flowering (3-7 days following first flower).For control of Alternaria alone, 4.2 oz product/A may be applied at pod stage (approximately 95% petal fall). Do not make applications later than 95% petal fall (pod stage). Do not make more than three applications. Do not apply more than more than 15 oz product per year or 0.45 lb ai/A per year.
Cantaloupe	See Cucurbits		
Cherry	See Stone Fruit		
Christmas Trees	Diplodia tip blight (Diplodia pinea) Lophodermium needlecast (Lophodermium pinastri) Swiss needlecast (Phaeocrytopus gaumannii)	3.2-8.0 (0.10-0.25)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum may overwinter. Resistance Management: Do not apply more than four sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than eight applications of HERITAGE per acre per year. Application Directions: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season at 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. Do not apply more than 4.0 pounds product/acre/season (2.0 lb. ai/A).
Cucumbers	See Cucurbits	l	

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Cucurbits cantaloupe chayote chinese- waxgourd cucumber gourds melons Momordica spp (bitter melon, balsam apple) honeydew muskmelon watermelon pumpkin squash zucchini	Anthracnose (Colletotrichum lagenarium) Belly Rot (Rhizoctonia solani) Downy Mildew (Psuedoperonospora cubensis) Gummy Stem Blight (Didymella bryoniae) Leaf spots (Alternaria spp. Cercospora spp.) Powdery Mildew (Sphaerotheca fuliginea, Erysiphe cichoracearum)	3.2-8.0 (0.10-0.25)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, plant residue management, crop rotation and proper timing and placement of irrigation. Resistance Management: Do not apply more than two sequential applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per crop per acre per year. Application Directions: For both downy and powdery mildew control, maintain a strict one to one alternation program with fungicides that have a different mode of action. Make applications on a 5-7 day schedule. For belly rot control, the first application should be made at the 1-3 leaf crop stage with a second application just prior to vine tip over or 10-14 days later whichever occurs first. For all other diseases, HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. HERITAGE should not be tank mixed with COC, MSO or silicon adjuvants. HERITAGE should not be tank mixed with Malathion, Kelthane®, Thiodan®, Phaser®, Lannate®, Lorsban®, M-PEDE® or Botran®. Do not apply more than 3.0 pounds of product/crop/acre/season (1.5 lbs ai/A). Do not apply within 1 day of harvest.
Gourds	See Cucurbits		

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Grapes Muscadines	Downy Mildew (<i>Plasmopara viticola</i>) Phomopsis Cane and Leaf Spot (<i>Phomopsis viticola</i>) Powdery Mildew (<i>Uncinula necator</i>) Black Rot (<i>Guignardia bidwellii</i>)	5.1-8.0	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes canopy management through pruning and thinning, proper selection of varieties with disease tolerance, proper timing and placement of irrigation and removal of plant debris in which inoculum overwinters. Resistance Management: Do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six (6) applications of HERITAGE per acre per year. <u>Application Directions</u> : HERITAGE applications should begin prior to disease development and continue throughout the season every 10-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates. Do not apply more than 3 pounds product/acre/season (1.5 lb ai/A). Do not apply within 14 days of harvest. ATTENTION HERITAGE is extremely phytotoxic to certain apple varieties. AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit). DO NOT spray HERITAGE where spray drift may reach apple trees. DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermat inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area. DO NOT use spray equipment which has been previously used to apply HERITAGE to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Melons	See Cucurbits		
Muskmelons	See Cucurbits		
Nectarines	See Stone Fruit		
Peaches	See Stone Fruit		
Peanuts	Early Leaf spot (Cercospora arachidicola) Late Leaf spot (Cercosporidium personatum) Pythium Pod Rot (Pythium myriotylum) Rhizoctonia Peg and Pod Rot (Rhizoctonia Peg and Pod Rot (Rhizoctonia solani) Stem Rot/White Mold (Sclerotium rolfsii) Rust (Puccinia arachidis) Web blotch (Phoma arachidicola)	3.2-12.8 (0.10-0.40)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, proper timing and placement of irrigation, crop rotation and crop residue management. Resistance Management: Do not make more than two applications of HERITAGE per acre per year. Application Directions: HERITAGE should be applied at approximately 60 and 90 days after planting as a foliar application. This application regime may be applied earlier in the season if environmental conditions favor disease development. These two applications of HERITAGE will provide season-long protection against the soil borne diseases labeled and will also provide control of early and late leaf spot for a 10-14 day period after each spray. Additional applications of other labeled fungicides on a leaf spot applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. Do not apply more than 1.6 pounds product/acre/season (0.8 lbs ai/acre/season). Do not apply within 50 days of harvest.

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Crop	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Pecans	Anthracnose (Glomerella cingulata)	3.2-6.4 (0.10-0.20)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with tolerance to disease and removal of plant debris in which inoculum overwinters.
	Scab (Cladosporium caryigenum)		Resistance Management: Do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year.
			<u>Application Directions</u> : HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.
			Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). Do not apply within 45 days of harvest.
Pistachios	Alternaria Late Blight (Alternaria alternata) Botryosphaeria panicle	3.2-8.0 (0.10-0.25)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum overwinters.
	and shoot blight (Botryosphaeria dothidea)		Resistance Management: Do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year.
	(Septoria pistaciarum)		<u>Application Directions</u> : HERITAGE applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.
			Do not apply more than 3.0 pounds product/acre/season (1.5 LB ai/A). Do not apply within 28 days of harvest.
Plums	See Stone Fruit	······	

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Стор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Potatoes	Early Blight (Alternaria solani) Late Blight (Phytophthora infestans)	3.2-8.0 (0.1-0.25)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes removal of plant debris, in which inoculum overwinters, selection of varieties with tolerance to disease, clean certified seed, seed piece treatment, and disease forecasting. Resistance Management: Apply HERITAGE in a strict one to one alternation program with fungicides that have a different mode of action, such as BRAVO. Make applications on a 5-7 day schedule. Do not alternate or tank-mix with fungicides to which resistance has developed. Do not make more than six (6) applications per year. Application Directions: For both early and late blight, maintain the strict one to one alternation program described above. Early blight - For a 7-day application schedule use HERITAGE 3.2 oz product/A, if the interval is increased to 14 days use the 6.0 oz product/A rate. Late blight - Apply HERITAGE at 3.2 oz product/A on a 7 day schedule. Initiate late blight applications in a preventative schedule prior to disease development according to local practices. If late blight symptoms develop or conditions favor disease increase the HERITAGE rate to 6.0 to 8.0 oz product/A and use a 5-day schedule. Do not make more than six applications per acre per year. Addition of a spreader/sticker may improve coverage. Do not make more than six applications of HERITAGE per acre per year for all diseases. Do not apply more than 3 pounds product/acre/season (1.5 LB ai/A). Do not apply within 14 days of harvest.
Prunes	See Stone Fruit		
Pumpkins	See Cucurbits		

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Сгор	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Ag Bi St St St Ec Br Le Na Ke Pa	heath/Stem Diseases ggregate Sheath Spot (Rhizoctonia oryzae- sativae) lack Sheath Rot (Gaeumannomyces graminis var. graminis) heath Blight (Rhizoctonia solani) heath Spot (Rhizoctonia oryzae) tem Rot (Sclerotium oryzae) oliar Diseases rown Leaf spot (Cochliobolus miyabeanus) eaf Smut (Entyloma oryzae) arrow Brown Leaf spot (Cercospora oryzae) anicle Diseases ernel Smut (Neovossia barclayana) anicle Blast (Pyricularia griesa)	3.2-9.6 (0.10 - 0.30)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, plant residue management, crop rotation, and sound water management practices. <u>Resistance Management</u> : When HERITAGE is being applied for panicle blast on continuous rice acreage (no rotation to other crops) no more than four sequential applications of HERITAGE should be made over multiple years before alternating with a fungicide with a different mode of action. Do not make more than three applications of HERITAGE per acre per year. <u>Application Directions</u> : HERITAGE should be applied prior to or in the early stages of disease development. Applications may be made by ground, air or chemigation. For aerial application, volumes should be 5-10 GPA. An adjuvant may be added at recommended rates to improve coverage. For stem/sheath diseases including sheath blight, stem rot, black sheath rot, aggregate sheath spot and sheath spot apply when disease is less than 4 inches above water line usually between panicle differentiation (PD) +5 days to PD+10 days or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease, apply HERITAGE prior to or in the early stages of disease development. HERITAGE must be applied as a preventative treatment for blast control and applied prior to favorable conditions for blast development. For panicle blast an application should be applied arid-boot to boot- split but prior to full head emergence. A second application should be applied when panicles are approximately 60-90% emerged from the boot (7-14 days later). Do not treat rice fields used for aquaculture of fish and crustacea. Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Applicators should use care in making applications near non-target aquatic habitats. Do not apply within 28 days of harvest. Do not apply within 28 days of ha

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Roses	Błack Opot -(Diplocarpe rosae) Downy Mildew (Peronospora sparsa) Powdery Mildew (Sphaerotheca pannosa) Rust (Phragmidium mucronatum, P. tuberculatum, and other Phragmidium spp) Septoria Leaf Spot (Septoria rosea) Alternaria Leaf Spot (Alternaria alternata)	1.6-8.0 (0.05-0.25)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management and proper timing and placement of irrigation. Resistance Management: Do not make more than four (4) sequential applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than eight applications per acre per year. Application Directions: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. Plant Safety: HERITAGE has been shown to be safe when applied to roses. However, all varieties of roses have not been evaluated for safety. Small scale variety safety testing must be conducted to insure plant safety prior to large scale application. In addition, do not tankmix HERITAGE with other fungicides, insecticides, herbicides, fertilizer, etc. unless local experience indicates that the tankmix is safe to roses. Do not apply more than 4.0 pounds product/acre/season (2.0 lb, ai/A).
Squash	See Cucurbits		

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Сгор	Target Diseases	Use Rate oz product/A (Ib al/A)	Remarks
Stone Fruit Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plumcot Prune	Alternaria Spot and Fruit Rot (<i>Alternaria alternata</i>) Anthracnose	3.2-8.0 (0.1-0.25)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and pruning to provide sunlight and aeration into the canopy. Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population. Do not make more than six applications of HERITAGE per acre per year for all diseases. Do not make more than 4 applications of HERITAGE per acre per year at 8 oz product/A (0.25 lb ai/A). Application Directions: For brown rot blossom blight, - Begin applications at early bloom and continue through petal fall. Do not apply more than two applications of HERITAGE may be applied to fruit up to the day of harvest. Do not apply more than two applications before alternating with fungicides that have a different mode of action. For scab, begin applications at petal fall and continue at 7-14 day intervals. For all other diseases, begin application at the onset of disease as a protectant fungicide and continue on a 7-14 day schedule. For peaches only, 4.7-8.0 oz of HERITAGE may be used for scab control.
	(Wilsonomycas carpophilus)		Applications may be made by ground, air or chemigation
	Brown Rot Blossom blight and Fruit rot (<i>Monilinia</i> fructicola, M. Iaxa)	6.4-8.0 (0.2-0.25)	Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). May be applied the day of harvest.

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Сгор	Target Diseases	Use Rate oz product/A (ib ai/A)	Remarks
Tomatoes	Anthracnose (Colletotrichum coccodes) Black Mold (Alternaria alternata) Buckeye Rot (Phytophthora spp.) Early Blight (Alternaria solani) Powdery Mildew (Oidiopsis sicula) Septoria Leaf spot (Septoria lycopersici) Target spot (Corynespora cassiicola) Late Blight (Phytophthora infestans)	0.8-3.2 (0.025-0.10) 1.6-3.2 (0.05 - 0.10)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes proper selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, plant residue management, crop rotation and proper timing and placement of irrigation. <u>Resistance Management</u> : When HERITAGE is being applied for the control of early blight, Septoria leaf spot and/or anthracnose, no more than four sequential applications of HERITAGE should be made before alternating with a fungicide with a different mode of action. When HERITAGE is being applied for the control of early blight, no more than two sequential applications of HERITAGE should be made before alternation with a fungicide with a different mode of action. If late blight should occur during an early blight spray program, switch immediately to the late blight spray program beginning with a fungicide that has a different mode of action. Do not make more than eight applications per acre per year. <u>Application Directions</u> : HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season following the resistance management guidelines. For late blight HERITAGE should be applied at 5-7 day intervals, maintain a strict one to one alternation program with fungicides that have a different mode of action. For all other tomato diseases HERITAGE should be applied on 7-21 day intervals. Applications may be made by ground, air or chemigation. HERITAGE should not be applied within +/-6 days of a postemergence broadcast application of Sencor. Do not apply with an adjuvant due to the potential for phytotoxicity. Do not apply with an al,6 pounds product/acre/season (0.8 b ai/A)

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Сгор	Target Diseases	Use Rate oz product/A (Ib al/A)	Remarks
Tree Nuts Almonds(see specific use instructrions)	Alternaria leaf and fruit spot (Alternaria alternata)	3.2-6.4 (0.10-0.20)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation.
Beechnut Brazil nut Butternut Cashew	Anthracnose (Colletotrichum acutatum, Glomerella cingulata)		Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungloide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year.
Chestnut Chinquapin Filbert Hickory Macadamia Pecan	Late blight (Alternaria alternata) Scab (Cladosporium carpophilum)		<u>Application Directions</u> : HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.
Walnut Pistachios(see specific use instructions)	Septoria leaf spot (Septoria pistaciarum) Shothole (Wilsonomyces carpophilus)		For blossom blight begin applications at early bloom and continue through petal fall. For all other diseases begin applications prior to or in the early stages of disease development and continue at 7-21 day intervals throughout the season.
	Blossom Blight (Monilinia laxa, M. fructicola)	6.4 (0.20)	Do not apply more than 2.4 pounds product/acre/season (1.2 LB ai/A). Do not apply within 45 days of harvest.
Watermelon	See Cucurbits		

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Сгор	Target Diseases	Use Rate oz product/A (ib ai/A)	Remarks
Wheat	Leaf Rust (Puccinia recondita f.sp. tritici) Powdery Mildew (Erysiphe graminis) Stripe Rust (Puccinia striiformis) Stem Rust (Puccinia graminis) Septoria Leaf and Glume Blotch (Septoria tritici, Septoria nodorum) Tan Spot (Pyrenophora tritici- repentis)	2.2- 6.4 (0.07-0.20)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes proper selection of varieties with disease tolerance, proper timing and placement of irrigation, removal of plant debris in which inoculum overwinters, plant residue management, and crop rotation. Resistance Management: Do not make more than two applications of HERITAGE per acre per year. <u>Application Directions</u>: HERITAGE should be applied prior to or in the early stages of disease development from jointing (Feekes 6 or Zadok's 31) up to late head emergence (Feekes 10.5 or Zadok's 59). Applications may be made by ground, air or chemigation. A crop oil concentrate adjuvant may be added at 1.0% V/V to optimize efficacy. Do not apply until after forage stage (Feekes 6 or Zadok's 31). Do not apply later than Feekes growth stage 10.5 (Zadok's growth stage 59). Do not apply wrote than 0.8 pounds product/acre/season (0.4 lb ai/A). Do not apply within 14 days of harvest for grain and straw.
Zucchini	See Cucurbits		

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Ounces Product/A	Lb ai/A	Treated Acres/Lb Product
1.0	0.03	16.0
1.5	0.05	10.7
2.0	0.06	8.0
2.5	0.08	6.4
3.0	0.09	5.3
3.5	0.11	4.6
4.0	0.13	4.0
4.5	0.14	3.7
5.0	0.16	3.2
5.5	0.17	2.9
6.0	0.19	2.7
6.5	0.20	2.5
7.0	0.22	2.3
7.5	0.23	2.1
8.0	0.25	2.0
8.5	0.27	1.9
9.0	0.28	1.8
9.5	0.30	1.7
10.0	0.31	1.6
10.5	0.33	1.5
11.0	0.34	1.5
11.5	0.36	1.4
12.0	0.38	1.3
12.5	0.39	1.3

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HERITAGE Rate Conversion Chart

Amount of HERITAGE Fungicide to Mix 100 Gallons for Post-Harvest Applieations

HERITAGE Use Rate	100.0 gals Spray Solution
300 ppm	9 oz
400 ppm	12 oz

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HERITAGE is recommended for control of anthracnose, brown patch, cool weather brown patch (yellow patch), Fusarium patch, gray leaf spot, gray snow mold (Typhula blight), leaf spot, melting out, necrotic ring spot, pink patch, pink snow mold, Pythium blight, Pythium root rot, red thread, Rhizoctonia large patch; southern blight, spring dead spot, summer patch, take-all patch, and Zoysia patch on certain pathogens causing foliar, stem, and root diseases, including leaf and stem blights, leaf spots, patch diseases, mildew, molds, and rusts of turfgrass plants. HERITAGE fungicide may be used to control certain diseases on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

Integrated Pest (Disease) Management: Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management should be integrated with the use of fungicides to increase turf vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

<u>Resistance Management</u>: Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. HERITAGE should be applied at full use rates in a tank mix or alternation program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Since HERITAGE is a strobilurin fungicide, avoid alternation with other strobilurins, such as kresoximmethyl and trifloxystrobin. Do not apply more than two sequential HERITAGE applications for Gray Leaf Spot and *Pythium* spp. control. For all other diseases when *Pythium* spp. is not present, do not apply more than four three sequential applications of HERITAGE.

<u>Application Directions</u>: HERITAGE should be applied prior to or in the early stages of disease development. Mix HERITAGE with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1000 square feet (87-174 gallons per acre). Repeat applications at specified intervals for as long as required. For spot treatments, use 0.2 oz HERITAGE per 1 to 2 gallons of water. Do not apply more than 10 lbs product/acre/year (3.7 oz product/1000 square feet/year). Applications may be made by ground only.

For use with soil injection applications:

HERITAGE Fungicide may be applied through a liquid fungicide injector for the control of ectrotrophic root diseases such as summer patch and take-all patch. Use HERITAGE fungicide **only** in liquid injection equipment specifically designated for pesticide use.

Apply HERITAGE at 0.2 to 0.4 ounces per 1000 square feet. Spray carrier volume should fall within 30-150 gallons of water per 1000 square feet. Injection hole spacing of 1 inch by 1 inch is recommended for optimum control. Injection depth should be no greater than 2 inches. One

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inch depth is recommended for optimum results. Application timing should imitate disease control strategies used for normal broadcast spray programs.

For use in the establishment of turfgrass from seed or in overseeding of dormant turfgrass:

HERITAGE may be used for control of certain turfgrass diseases associated with turfgrass establishment from seed. HERITAGE may also be used during overseeding of dormant turfgrass.

HERITAGE may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, and fescue turfgrass types. See Application Directions section.

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<u>Rate Ranges</u>: Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease conditions exist.

<u>Dollar Spot</u>: HERITAGE does not control dollar spot. <u>HERITAGE is compatible in tank mixes</u> with many other fungicides that control dollar spot. Always tank mix HERITAGE with another fungicide that controls dollar spot when this disease is present. During periods of dollar spot pressure, always mix Heritage with DACONIL[®] or other dollar spot control fungicide. HERITAGE is compatible in tank mixes with many other fungicides that control dollar spot. Follow directions under TANK MIXES/COMPATIBILITY above.

Target Diseases	Use Rate (oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Anthracnose (Colletotrichum graminicola)	0.2-0.4	14-28	Apply when conditions are favorable for disease development. Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Brown Patch (Rhizoctonia solani)	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Cool Weather Brown Patch Yellow Patch (<i>Rhizoctonia cerealis</i>)	0.2-0.4	14-28	Make one or two applications in fall or when conditions are favorable for disease development.
Fusarium Patch (<i>Microdochium nivale</i>)	0.2-0.4	14-28	Apply when conditions are favorable for disease development. Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Gray Leaf Spot (Pyricularia grisea)	0.2-0.4	14-28	Begin applications before disease is present and continue applications while conditions are favorable for disease development.

DIRECTIONS FOR APPLICATION FOR TURF DISEASES

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[Use Rate	Application	
	(oz product	Interval	
Target Diseases	per 1000 sq ft)	(days)	Remarks*
Gray Snow Mold	0.7	single	Make a single application of 0.7 oz or
Typhula blight		application	two applications of 0.4 oz. spaced 10-
(Typhula incamata, T.	0.4	10-14	14 days apart in late fall just before
ishikariensis)			snow cover. Tankmixing with another
			snow mold fungicide may enhance
1			Tank mixing with another snow mold
			fungicide, such as Daconil, may
			enhance control under severe disease
			pressure.
Leaf Rust	0.2 to 0.4	14 to 28	Begin applications when conditions are
Stem Rust			favorable for disease infection, prior to
Stripe Rust			disease symptom development.
(Puccinia spp.)			
Leaf spot	0.2-0.4	14-21	Apply when conditions are favorable
(Bipolaris sorokiniana)	0.004		for disease development.
	0.2-0.4	14-21	Apply when conditions are favorable
<u>(Drechslera poae)</u> Necrotic Ring Spot	0.2-0.4	14-28	for disease development Apply when conditions are favorable
(Leptosphaeria korrae)	0.2-0.4	14-20	for disease development.
Pink Patch	0.2-0.4	14-28	Apply when conditions are favorable
(Limonomyses roseipellis)	0.2-0.4	14-20	for disease development.
Pink Snow Mold	0.7	single	Make a single application of 0.7 oz or
(Microdochium nivale)	0	application	two applications of 0.4 oz. spaced 10-
(0.4	10-14	14 days apart in late fall just before
			snow cover. Tankmixing with another
		r	snow mold fungicide may enhance
			control under severe disease pressure.
			Tank mixing with another snow mold
			fungicide, such as Daconil may enhance control under severe disease
			Dressure.
Powdery Mildew	0.2 to 0.4	14-28	Begin applications when conditions are
(Erysiphe graminis)	0.2 10 0.4		favorable for disease infection, prior to
			disease symptom development.
Pythium Blight	0.2-0.4	10-14	Begin applications before disease is
Pythium Root Rot			present. Use preventatively. Begin
(Pythium aphanidermatum,	}		applications when conditions are
Pythium spp.)			favorable for disease infection, prior to
			disease symptom development.
		1	During periods of prolonged favorable conditions, treat on the 10 day
			application interval.
		1	For use on newly seeded as well as
		1	established turf.
Red Thread	0.2-0.4	14-28	Apply when conditions are favorable
(Laetisaria fuciformis)			for disease development.
Rhizoctonia Large Patch	0.2-0.4	14-28	Make one or two applications in fall or
(Rhizoctonia solani)			when conditions are favorable for
			disease development.
Rhizoctonia Leaf Spot	0.2 to 0.4	14 to 28	Apply when disease conditions are
(Rhizoctonia zeae)		l	favorable for disease development.

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	Use Rate (oz product	Application	
Target Diseases	per 1000 sq ft)	(days)	Remarks*
Southern Blight (Sclerotium rolfsii)	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Spring Deac Spot (Leptosphaeria korrae) or (Gaeumannomyces graminis var. graminis) or (Ophiosphaerella herpotricha)	0.2-0.4	14-28	Make one or two applications in fall, or when conditions are favorable for disease development. Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/4" to ½" of irrigation directly after application is recommended. Reapply 14 to 28 days later.
Summer Patch (<i>Magnaporthe poae</i>)	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Take-all patch (Gaeumannomyces graminis var. avenae)	0.2-0.4	28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development. Make two applications, 28 days apart in the spring and two applications 28 days apart in the fall.
Zoysia Patch (Rhizoctonia solani andlor Gaeumannomyces incrustana)	0.2-0.4	14-28	Make one or two applications in late fall before snow cover or when conditions are favorable for disease development. Apply 1 or 2 applications approximately one month prior to zoyiagrass dormancy Reapply 14 to 28 days later. Do not apply on top of snow.

* Do not apply more than two sequential applications of HERITAGE for control of Gray Leaf Spot and *Pythium* spp.

For all other diseases when Pythium spp is not present, do not apply more than four three sequential applications of HERITAGE.

HERITAGE Rate Cor	version Chart for Turf

Ounces Product Per 1000 Sq. Ft	Ounces A.I. Per 1000 Sq. Ft	Ounces Product Per Acre	Pounds Product Per Aore
0.20	0.10	8.7	0.5
0.30	0.15	13.1	0.8
0.40	0.20	17.4	1.1
0.70	0.35	30.5	1.9

Amount of HERITAGE to Mix 100 Gallons for Turf Applications

	Spray Volume (gallons/1000 square feet)			
HERITAGE Use Rate	2.0 gals	3.0 gals	4.0 gals	
0.2 oz	10 oz	6.7 oz	5 oz	
0.4 oz	20 oz	13.3 oz	10 oz	
0.7 oz.	35 oz.	23.3 oz	17.5 oz	

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ORNAMENTALS:

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HERITAGE Fungicide is recommended for control of certain pathogens causing foliar, aerial, and root diseases, including leaf, tip, and flower blights, leaf spots, downy mildew, powdery mildew, anthracnose, and rusts of ornamental plants. HERITAGE Fungicide may be used to control certain diseases of container, bench, flat, plug, bed or field-grown ornamentals in greenhouses, shade-houses, outdoor nurseries, retail nurseries, and other residential and commercial landscape areas.

Integrated Pest (Disease) Management: HERITAGE Fungicide should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management and proper timing and placement of irrigation. Immunoessay detection kits and diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

<u>Resistance Management</u>: Some ornamental disease pathogens are known to have developed resistance to fungicides used repeatedly for their control. HERITAGE Fungicide should be applied in an alternation or tankmix program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Do not make more than three (3) sequential applications of HERITAGE Fungicide before alternating with a fungicide of a different mode of action. A sound resistance management program would include blocks of three HERITAGE Fungicide applications separated by blocks of two alternate fungicide applications. Do not alternate HERITAGE Fungicide with other strobilurin fungicides.

<u>Application Directions</u>: Apply HERITAGE Fungicide as a broadcast or banded spray targeted at the foliage or crown of the plant. Apply to runoff in sufficient water to ensure complete coverage of the target plant. Good coverage and wetting of foliage is necessary for best control. Refer to the label for specific use directions for control of certain diseases. Repeat applications at specified intervals (plus alternations for resistance management) for as long as required. Applications may be made by ground only.

HERITAGE Fungicide applications should begin prior to or in the early stages of disease development and continue throughout the season at specified intervals following resistance management guidelines. HERITAGE Fungicide works best when used as part of a preventative disease management program.

Use only surfactants approved for ornamental plants in combination with HERITAGE Fungicide. Do not use silicone based products with HERITAGE Fungicide due to possible phytotoxicity. Always test tankmixes on a small group of representative plants prior to broadscale use.

Apply HERITAGE Fungicide at use rates of 1-4 oz/100 gallons and every 7-28 days (or as otherwise specified for a specific plant or disease). The addition of a non-silicone based wetter/sticker at 0.06% v/v (8 oz/100 gallons) is recommended for best results. The addition of

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a non-silicone based wetter-sticker at the recommended use rate may enhance coverage on hard-to-wet plant foliage.

Use the lower rates (1-3 oz/100 gallons) and/or longer spray intervals (10-28 days) under light to moderate disease pressure. Use the higher rates (2-4 oz/100 gallons) and/or the shorter intervals (7-14 days) under environmental conditions which promote severe disease development. Allow at least 2 hours drying time prior to overhead irrigation for foliar disease control.

HERITAGE may be applied to control certain soilborne, seedling, and crown diseases of production ornamentals (greenhouse, shadehouse, and container grown, and field grown) as a preventative, drench treatment prior to infection. Good coverage of the pre-infection area (root zone, root ball, crown, etc.) is necessary for satisfactory control. HERITAGE-may be drench applied to container grown ornamentals using 0.2-0.9 oz/100 gallons of water. Apply 1-2 pints of the solution per square foot surface area on a 7-28 day interval. Apply drench prior to infection as healthy roots are necessary to optimize product uptake, systemic translocation and disease protection.

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For resistance management do not make more than three sequential drench applications of HERITAGE before alternating with a fungicide of a different mode of action.

Caution should be taken before making application of HERITAGE as a drench to small bedding plants in the seedling/plug stage due to possible phytotoxicity. A limited quantity of plants should be tested prior to full-scale application.

HERITAGE may be applied through drip irrigation systems to potted ornamentals or to bedded, field grown ornamentals for soil-borne disease control. Apply 2-16 oz HERITAGE per acre as a preventative disease application. The soil or potting media should have adequate moisture capacity prior to drip application.

Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, subsequent irrigation (water only) should be delayed for at least for 24 hours following drip application.

Use of HERITAGE as a "rescue" (late curative or eradicant) treatment may not always result in satisfactory disease control.

Do not exceed 10 lbs product/crop acre/year or 8 applications/crop/year.

Allow at least 2 hours drying time prior to overhead watering. Do not exceed 600 gallons spray volume per acre. Use sufficient volume to achieve thorough coverage of plant tissue. Do not exceed 600 gallons spray volume per acre for foliar applications. For drench and crown applications, do not exceed 2 pints volume per square foot.

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In addition, do not tankmix HERITAGE Fungicide with other fungicides, insecticides, herbicides, fertilizer, adjuvants, etc, unless local experience indicates that the tankmix is safe to ornamental plants.

Do not apply HERITAGE Fungicide to apple, or cherry trees due to possible phytotoxicity. Further, do not use spray equipment that has applied HERITAGE Fungicide for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.

HERITAGE may be applied to certain varieties of crabapple for control of apple scab. HERITAGE has been shown to be safer when applied to the species and varieties listed in Table 4. However, due to the large number of genera, species, and varieties of crabapple, it is impossible to test every one for tolerance to HERITAGE Fungicide. The professional user should conduct small scale testing to insure plant safety prior to broadscale oommercial use on plant genera and species not listed on this label.

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SPECIAL USE COMMENTS **DISEASE** (Pathogen) 1. CONIFER BLIGHTS a. Phomopsis Blight (Phomopsis juniperovora) Apply 1-4 oz/100 gal every 7-28 days b. Tip Blight (Sirococcus strobilinus) Apply 1-4 oz/100 gal every 7-28 days 2. LEAF BLIGHTS/LEAF SPOTS a. Alternaria Leaf Spot (Alternaria spp.) Apply 1-4 oz/100 gal every 7-28 days b. Anthracnose Apply 1-4 oz/100 gal every 7-28 days (Colletotrichum spp., Elsinoe spp.) c. Downy Mildew of Rose (Peronospora sparsa) Apply 2-4 oz/100 gal every 7-21 days during periods of active plant growth and prior to dormancy or severe infection. d. Entomosporium Leaf Spot Apply 1-4 oz/100 gal every 7-28 days (Entomosporium mespili) Apply 3-68 oz/acre every 7-14 days. Use higher e. Fern Anthracnose (Colletotrichum acutatum) rates and/or shorter spray intervals under conditions conducive to high disease pressure. Bo not apply through air blast sprayer due to possible phytotexicity: Do not apply in less than 100 gallons of water per acre. f. Iris Leaf Spot (Mycosphaerella macrospora) Apply 2-4 oz/100 gal every 7-21 days g. Leaf spot (Cladosporium echinulatum) Apply 1-4 oz/100 gal every 7-28 days h. Rose Blackspot (Diplocarpon rosea) Apply 4-8 oz/100 gal every 7-14-days Apply HERITAGE Fungicide on a 7 day interval unless disease pressure is light. Under severe disease conditions or if disease is already present. HERITAGE Fungicide may be tankmixed with another rose blackspot fungicide. Do not exceed 24 oz/acre/application Apply 12-4 oz/100 gal every 7-21 days hi. Myrothecium leaf spot (Myrothecium spp.-rordum) if. Downy Mildew of Bedding Plants of Snapdragon-Apply 1-4 oz/100 gal every 7-28 days Apply 1-2 oz every 7-14 days prior to infection. Do not apply the (Peronospora antimhini) spp) 2 oz rate on less than 14 day spray intervals. jk. Apple-Scab (Venturia inaequalis) Apply 1-4 oz/100 gal every 10-28 days. Do not apply to apple trees. For crab apples only, see Table 4 for tolerant species.

Apply 1-4 oz/100 gal every 14-28 days.

1-4 oz/100 gal every 7-28 days.

k. Marrsonina leaf spot (Marrsonina spp.)

I. Cercospora Leaf Spot (Cercospora spp.)

TABLE 1: <u>Diseases Controlled:</u> When used in accordance with the label directions, HERITAGE Fungicide will provide control of the following diseases of ornamental plants:

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DISEASE (Pathogen)	SPECIAL USE COMMENTS	
3. POWDERY MILDEW	Preventative applications only. Do not make more than 2 sequential applications before rotating to another class of fungic des.	
a. Erysiphe pannosa, Erysiphe spp.	Apply 1-4 oz/100 gal every 7-28 days	
b. Microsphaera azaleae	Apply 1-4 oz/100 gal every 7-28 days	
c. Sphaerotheca pannosa	Apply 1-4 oz/100 gal every 7-28 days	
4. RUSTS		
a. Needle Rust (Melampsora occidentalis)	Apply 1-4 oz/100 gal every 7-28 days	
b. Phragmidium spp.	Apply 1-4 oz/100 gal every 7-28 days	
c. Puccinia spp.	Apply 1-4 oz/100 gal every 7-28 days	
d. Gymnosporangium spp.	Apply 1-4 oz/100 gal every 7-28 days	
5. FLOWER BLIGHTS		
a. Anthracnose (Collectotrichum spp., Elsinoe spp.)	Apply 1-4 oz/100 gal every 7-28 days	
b. Botrytis Blight (Botrytis cinerea)	Apply 4-8 oz/100 gal every 7-21 days For suppression only. Do not exceed 24 oz/acre. Apply 2-4 oz/100 gallons every 7-21 days prior to infection.	
6. SHOOT/STEM DISEASES		
a. Aerial/Shoot Blight (Phytophthora spp.)	Apply 1-2 oz/100 gal every 7-28 days	
7. SOILBORNE DISEASES (Directed Spray)	For directed spray applications utilize the following rates below.	
a. Rhizoctonia solani	Apply 1-4 oz/100 gal every 7-21 days	
b. Sclerotium rolfsii	Apply 1-4 oz/100 gal every 7-21 days	
c. Fusarium spp.	Apply 1-4 oz/100 gal every 7-21 days	
	Apply 1-4 oz/100 gal every 7-21 days	
	Apply 1-4 oz/100 gal every 7-21 days	
8. SOILBORNE DISEASES (Drench)	See application directions and rates under Ornamentals Section for drench directions.	

<u>PLANT SAFETY</u>: HERITAGE Fungicide has been shown to be safe when applied to the ornamental plants listed in Tables 2,3 and 34. However, due to the large number of genera, species and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to HERITAGE Fungicide. Neither the manufacturer nor the seller has determined whether or not HERITAGE Fungicide can be used safely on genera, species, or varieties of ornamental and nursery plants not specified on this label. The professional user should conduct small scale testing to insure plant safety prior to broadscale commercial use on plant genera and species not listed in this label.

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In addition, do not tankmix HERITAGE Fungicide with other fungicides, insecticides, herbicides, fertilizer, adjuvants, etc, unless local experience indicates that the tankmix is safe to ornamental plants.

Do not apply HERITAGE Fungicide to certain apple, crabapple, or cherry trees due to possible phytotoxicity. Further, do not use spray equipment that has applied HERITAGE Fungicide for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.

Tolerant Ornamental Plants: HERITAGE Fungicide has been found to be safe when applied to the plants listed in Tables 2 and 3 when applied according to recommended application methods, rates, and timings:

BOTANICAL NAME	COMMON NAME	DISEASES
Abelia x grandiflora spp.	Abelia	2
Abies fraseri	Fraser fir	1,4
Acer palmatum	Japanese maple	2
Acer saccharum	Sugar maple	2
Ageratum spp.	Floss-Flower	3,4
Ageratum spp.	Pussy's-Foot	3,4
Aglaonema spp.	Chinese evergreen	2,4
Ajuga reptans	Bugle, Bugleweed	3
Antirrhinum spp.	Snap-Dragon	2ij,3,4
Aphelandra spp.	Zebra-Plant	2
Artemisia spp.	Mugwort, Sagebrush	2
Artemisia spp.	Wormwood	2
Aster spp.	Aster, Starwort	•4
Aucuba japonica	Japanese aucuba, Japanese laurel	7
Begonia spp.	Begonia	2,3
Bellis, Anthemis	Đaisy	2,3
Berberis thunbergii	Barberry	3,4
Betula nigra	River birch	3,4
Bougainvillea spp.	Bougainvillea	2
Brassaia actinophylla	Rubber-tree, Umbrella-tree	2,7
Buddlejia davidii	Buddlejia, Butterfly-bush	2
Buddleja lochinch	Butterfly Bush	2

TABLE 2: Tolerant Plants Listed by Botanical Name:

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BOTANICAL NAME	COMMON NAME	DISEASES
Buxus sempervirens	Boxwood	2,7a
Caladium spp.	Caladium	7
Camellia japonica	Camellia	2
Caryota urens	Sago Palm	2,7
Catharanthus roseus	Vinca	2
Ceanothus sanguineus	Wild lilac	3
Ceanothus spp.	Ceanothus, California lilac, Snowball	3
Cedrus atlantica	Atlas cedar	- 2,4
Cedrus spp.	White cedar	2,4
Cercis occidentalis	Western redbud	2
Chamaecyparis obtusa spp.	Cypress, Leland cypress	1
Chamaecyparis pisifera	Cypress Sawara cypress	1
Ghamaecyparis spp:	Leyland Cypress	1
Chamaedora elegans	Parlor palm	7
Chrysanthemum spp.	Chrysanthemums	2,7c
Ghrysanthemum morifolium	Chrysanthemum	2,7c
Clethra alnifolia	Clethra, White alder	2
Cornus spp.	Dogwood, Pink dogwood, Flowering dogwood	2b,3
Cortaderia selloana	Pampas grass	3
Cotoneaster adpressus	Creeping cotoneaster	7
Cotoneaster horizontalis	Cotoneaster - variegated rockspray	7
Cyclamen spp.	Cyclamen	7c
Cyperus spp.	Cyperus	1
Delphinium spp.	Larkspur	2
Dianthus caryophyllus	Carnation	3,4
Dianthus spp.	Pink	3,4
Dieffenbachia spp.	Dumb-Cane	2, 2i
Dietes iridiodes	African iris, Butterfly iris	4c
Digitalis spp.	Foxglove	2,3
Epipremnum spp.	Pothos	2
Erica dareyensis	Heather	2

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BOTANICAL NAME	COMMON NAME	DISEASES
Euonymus alata	Dwarf winged euonymus	2
Euonymus alatus	Burning bush	2
Euonymus japonicus	Evergreen euonymus	2
Euphorbia pulcherrima spp.	Poinsettia	2a
Fatsia japonica	Japanese fatsia, Paper-plant	2
Ficus spp.	Fig	2
Forsythia viridissima	Forsythia	2
Gaillardia spp.	Blanket-Flower	2
Gardenia jasminoides	Gardenia	- 3
Geranium spp.	Cranesbill	5b
Gerbera jamesonii	Gerber daisy, Transvaal daisy	3
Hedera algeriensis	Algerian ivy	2
Hedera helix	English ivy	2
Hibiscus moscheutos	Hibiscus	2,3
Hibiscus rosa-sinensis	Hibiscus	2,3
Hibiscus syriacus	Rose of Sharon	2,3
Hosta spp.	Hosta	2
Hydrangea macrophylla	French hydrangea	21,3
Hydrangea spp.	Hydrangea	21,3
llex spp.	Holly, Winterberry, Yaupon	3
Impatiens spp. ¹	Balsam, Impatiens	2a,7a
Itea virginica	Virginia willow	3,4
Juniperus procumbens	Juniper	1a,4
Juniperus scopulorum	Juniper	1a,4
Juniperus spp.	Juniper	1a,4
Juniperus virginiana	Red cedar	1a,4
Lagerstroemia indic a x fauriei	Crapemyrtle	21,3
Laurus nobilis	Laurel	3
Ligustrum japonicum	Japanese Privet	Э
Liriope muscari	Lily-turf	2
Magnolia grandiflora	Southern magnolia	2
Magnolia soulangiana	Saucer magnolia	2
Magnolia spp.	Magnolia	2

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BOTANICAL NAME	COMMON NAME	DISEASES
Malus spp.	Crab apple (See Table 4 for variety list)	2j
Nandina domestica	Nandina	2
Nerium oleander	Oleander, Rose-bay	2
Pelargonium spp.	Geranium	3,4,5b
Pennisetum alopecuroides	Grass	2
Peperomia spp.	Baby rubber-plant	2,7
Petunia spp.	Petunia	6a
Phalaris spp.	Dwarf pampas grass	-3
Philodendron spp.	Philodendron	2
Phlox spp.	Phlox	3
Phoenix dactylifera	Date palm	2,7
Phoenix roebelenii	Roebelin's palm	2,7
Photinia glabra	Red-tip photinia	2,3,4
Photinia x fraseri	Photinia, Redtop	2
Picea abies	Norway spruce	1
Picea glauca	White spruce	1
Picea pungens	Blue spruce	1
Pieris japonica	Japanese andromeda	2,7
Pinus muhgo	Muhgo pine	1b,4
Pinus nigra	Black pine	1b,4
Pinus silvestris	Scotch pine	1,4
Pinus spp.	Pine	1b,4
Pinus strobus	Eastern white pine	1b,4
Pittosporum spp.	Australian laurel	*3,4
Pittosporum tobira	Mock-orange	3,4
Plectranthus spp.	Swedish ivy, Coleus	2
Populus spp.	Aspen Trees	2k
Potentilla spp.	Cinquefoil	2
Primula spp.	Primrose	2
Prunus pumila	Cherry	2,5
Prunus spp.	Flowering plum, Purple-leaf plum	2,5
Pseudotsuga spp.	Douglas fir	1,4

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BOTANICAL NAME	COMMON NAME	DISEASES
Pyrus calleryana	Bradford's pear	3
Quercus falcata	Red oak	2,3
Quercus palustris	Pin oak	2,3
Rhaphiolepsis indica	Indian hawthorn	2,3,4
Rhododendron spp.	Azaleas, Rhododendron	2b,3,6,7
Rosa spp.	Rose	2h, 2c,3,4b
Rosmarinus spp.	Rosemary (prostrate)	2
Rudbeckia fugida hirta	Black-eyed-susan	2
Rumohra adiantiformis	Leatherleaf fern	-2b
Salvia spp.	Sage	3,4
Schlumbergera	Holiday cactus	2,7
Sedum spp.	Orpine, Stonecrop	2
Sempervivum spp.	Live-forever, House-Leek	2
Setaria spp.	Ribbon-grass	2,3
Spathiphyllum floribundium	Peace lily	2h i , 2l,7
Spirea budalda	Spirea	3
Spirea japonica	Spirea	3
Syagrus romanzoffianum	Queen palm	2
Tagetes spp.	Marigold	2a
Taxus baccata	Spreading yew	7
Thujopsis spp.	Arborvitae	2
Thymus serphyllum	Creeping thyme	2
Tsuga spp.	Hemiock	4
Verbena spp.	Verbena, Vervain	3
Vibumum spp.	Vibumum	2,3,4
Vinca spp.	Periwinkle	2,6a
Viola spp. ¹	Viola, Pansy 1	2
Wiegela florida	Pink wiegela	2
Yucca spp.	Yucca	7
Zinnia spp.	Zinnia	2a,3

¹ Do not exceed 2 oz/100 gallons on these species.

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COMMON NAME	BOTANICAL NAME	
Abelia	Abelia spp. x grandiflora	
Andromeda, Japanese	Pieris japonica	
Arborvitae	Thujopsis spp.	
Aspen Trees	Populus spp.	
Aster	Aster spp.	
Aucuba, Japanese	Aucuba japonica	
Azalea, Glacier	Rhododendron spp.	
Azaleas	Rhododendron spp.	
Balsam	Impatiens spp.	
Barberry	Berberis thunbergii	
Begonia	Begonia spp.	
Birch, River	Betula nigra	
Black-Eyed-Susan	Rudbeckia hirta fugida	
Blanket-Flower	Gaillardia spp.	
Bougainvillea	Bougainvillea spp.	
Boxwood	Buxus sempervirens	
Buddleja	Buddleja davidii	
Bugle	Ajuga reptans	
Bugleweed	Ajuga reptans	
Burning Bush	Euonymus alatus altus	
Butterfly Bush	Buddle ji a davidii lochinch	
Cactus, Holiday	Schlumbergera	
Caladium	Caladium spp. 💊	
Camellia	Camellia japonica	
Carnation	Dianthus caryophyllus	
Ceanothus	Ceanothus spp.	
Cedar, Atlas	Cedrus atlantica	
Cedar, Red	Juniperus virginiana	
Cedar, White	Cedrus spp.	
Cherry	Prunus pumila	
Christmas Trees	See Fraser fir, Scotch pine and Douglas fir	
Chrysanthemum	Chrysanthemum monifolium, spp.	

TABLE 3: Tolerant Plants Listed by Common Name:

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COMMON NAME	BOTANICAL NAME
Clethra	Clethra alnifolia
Coleus	Plectranthus spp.
Cotoneaster, Creeping	Cotoneaster adpressus
Cotoneaster, Variegated Rockspray	Cotoneaster horizontalis
Crab apple (See Table 4 for variety list)	Malus spp.
Cranesbill	Geranium spp.
Crapemyrtle	Lagerstroemia indica x fauriei
Cyclamen	Cyclamen spp.
Cyperus	Cyperus spp.
Cypress	Chamaecyparis obtusa
Cypress	Chamaecyparis pisifera
Cypress, Leyland	Chamaecyparis spp.
Daisy	Bellis, Anthemis
Daisy, Gerber	Gerbera jamesonii
Daisy, Transvaal	Gerbera jamesonii
Dogwood	Cornus spp.
Dogwood	Cornus florida
Dogwood, Pink	Cornus spp.
Dumb-Cane	Dieffenbachia
Euonymus, Dwarf Winged	Euonymus alata
Euonymus, Evergreen	Euonymus japonicus
Evergreen, Chinese	Aglaonema spp.
Fatsia, Japanese	Fatsia japonica
Fern, Leatherleaf	Rumohra adiantiformis
Fig	Ficus spp.
Fir, Douglas	Pseudotsuga spp.
Fir, Fraser	Abies fraseri
Floss-Flower	Ageratum spp.
Forsythia	Forsythia viridissima
Foxglove	Digitalis spp.
Gardenia	Gardenia jasminoides
Geranium	Pelargonium spp.

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COMMON NAME	BOTANICAL NAME	
Grass	Pennisetum alopecuroides	
Grass, Dwarf Pampas	Phalaris spp.	
Grass, Pampas	Cortaderia selloana	
Hawthorn, Indian	Rhaphiolepsis indica	
Heather	Erica dareyensis	
Hemlock	Tsuga spp.	
Hibiscus	Hibiscus moscheutos	
Hibiscus	Hibiscus rosa-sinensis	
Holly	llex spp.	
Hosta	Hosta spp.	
House-Leek	Sempervivum spp.	
Hydrangea	Hydrangea spp.	
Hydrangea, French	Hydrangea macrophylla	
Impatiens ¹	Impatiens spp. ¹	
Iris, African	Dietes iridiodes	
Iris, Butterfly	Dietes iridiodes	
Ivy, Algerian	Hedera algeriensis	
lvy, English	Hedera helix	
lvy, Swedish	Plectranthus spp.	
Juniper	Juniperus procumbens	
Juniper	Juniperus scopulorum	
Juniper	Juniperus spp.	
Laurel	Laurus nobilis	
Laurel, Australian	Pittosporum spp.	
Laurel, Japanese	Aucuba japonica	
Lilac, California	Ceanothus spp.	
Lilac, Wild	Ceanothus sanguineus	
Lily, Peace	Spathiphyllum floribundium	
Lily-Turf	Liriope muscari	
Live-Forever	Sempervivum spp.	
Magnolia	Magnolia spp.	
Magnolia, Saucer	Magnolia soulangiana	
Magnolia, Southern	Magnolia grandiflora	
Maple, Japanese	Acer palmatum	

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COMMON NAME	BOTANICAL NAME	
Maple, Sugar	Acer saccharum	
Marigold	Tagetes spp.	
Mock-Orange	Pittosporum tobira	
Mugwort	Artemisia spp.	
Nandina	Nandina domestica	
Oak, Pin	Quercus palustris	
Oak, Red	Quercus falcata	
Oleander	Nerium oleander	
Orpine	Sedum spp. 👻	
Palm, Date	Phoenix dactylifera	
Palm, Parlor	Chamaedora elegans	
Palm, Queen	Syagrus romanzoffianum	
Palm, Roebelin's	Phoenix roebelenii	
Palm, Sago	Caryota urens	
Pansy ¹	Viola spp. 1	
Paper-Plant	Fatsia japonica	
Pear, Bradford's	Pyrus calleryana	
Periwinkle	Vinca spp.	
Petunia	Petunia spp.	
Philodendron	Philodendron spp.	
Phlox	Phlox spp.	
Photinia	Photinia x fraseri	
Photinia, Red-Tip	Photinia glabra	
Pine	Pinus spp.	
Pine, Black	Pinus nigra	
Pine, Eastern White	Pinus strobus	
Pine, Muhgo	Pinus muhgo	
Pine, Scotch	Pinus sylvestris	
Pink	Dianthus spp.	
Plum, Flowering	Prunus spp.	
Plum, Purple-Leaf	Prunus spp.	
Poinsettia	Euphorbia pulcherrima spp.	
Pothos	Epipremnum spp.	
Primrose	Primula spp.	

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COMMON NAME	BOTANICAL NAME		
Privet, Japanese	Ligustrum japonicum		
Pussy's-Foot	Ageratum spp.		
Redbud, Western	Cercis occidentalis		
Redtop	Photinia x fraseri		
Rhododendron	Rhododendron spp.		
Ribbon-Grass	Setaria spp.		
Rose of Sharon	Hibiscus syriacus		
Rose	Rosa spp.		
Rose-Bay	Nerium oleander 🗧 🗧		
Rosemary (Prostrate)	Rosmarinus spp.		
Rubber-Plant, Baby	Peperomia spp.		
Rubber-Tree	Brassaia actinophylla		
Sage	Salvia spp.		
Sagebrush	Artemisia spp.		
Snap-Dragon	Antirrhinum spp.		
Snowball	Ceanothus spp.		
Spirea	Spirea budalda		
Spirea	Spirea japonica		
Spruce, Blue	Picea pungens		
Spruce, Norway	Picea abies		
Spruce, White	Picea glauca		
Starwort	Aster spp.		
Stonecrop	Sedum spp.		
Sweet Alyssum	Lobularia maritima		
Thyme, Creeping	Thymus serphyllum		
Umbrella-Tree	Brassaia actinophylla		
Verbena	Verbena spp.		
Vervain	Verbena spp.		
Viburnum	Viburnum spp.		
Vinca	Catharanthus		
Viola	Viola spp.		
White alder	Clethora spp.		
Wiegela, Pink	Wiegela florida		
Willow, Virginia	Itea virginica		

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COMMON NAME	BOTANICAL NAME		
Winterberry	llex spp.		
Wormwood	Artemisia spp.		
Yaupon	llex spp.		
Yew, Spreading	Taxus baccata		
Yucca	Yucca spp.		
Zebra-Plant	Aphelandra spp.		
Zinnia	Zinnia spp.		

¹ Do not exceed 2 oz/100 gallons on these species.

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TABLE 4: Tolerant Varieties of Crabapple Species (Genus Malus):

Tolerant Varieties of Malus
Arkansas Black
atrosanguinea
baccata
baccata var. jackii
baccata var. mandshurica
Callaway
Candymint Sargent
Christmas Holly
coronaria
David
Dolgo
Donald Wyman
Dorothea
Doubloons
Eleyi ·
Enterprise
Evereste
Eyelynn
floribunda
Gloriosa
Golden Delicious
Golden Raindrops

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Tolerant Varieties of Mai	lus
Нора	
Indian Magic	
Island	
Katherine	
Lancelot	
Louisa	
Mary Potter	
Molten Lava	
New Centennial	
Ormiston Roy	
Pink Satin	
Prairie Maid	
Prairifire	
Profusion	
pumila	
Ralph Shay	
Red Jade	
Red Baron	
Sargent	
sargentii	
seiboldii	······
Selkirk	
Sentinel	
Silver Moon	
Silverdrift	
Sinai Fire	
spectablis	
Sugar Tyme	
Van Eseltine	
White Angel	
Williams Pride	
Winter Gold	
Yellow Delicious	
zumi Calocarpa	

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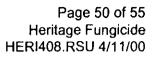
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Table 5: Intolerant Plants (Do not apply HERITAGE Fungicide to these species or varieties):

BOTANICAL NAME	COMMON NAME	
Apple	Malus domestica	
Crabapple - Flame variety	Malus spp.	
Crabapple - Brandywine variety	Malus spp.	
Crabapple - Hopa Novamac variety	Malus spp.	
Cherry, Flowering - Yoshina variety	Prunus yedoensis.	
Privet	Ligustrum spp.	



CONIFERS INCLUDING CHRISTMAS TREES

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HERITAGE may be used to control certain diseases on conifers in production (indoor and outdoor) and landscape situations.

DIRECTIONS FOR APPLICATION

Сгор	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Conifers including Christmas Trees	Diplodia tip blight (Diplodia pinea) Lophodermium needlecast (Lophodermium pinastri) Swiss needlecast (Phaeocrytopus gaumannii)	3.2-8.0 (0.10-0.25)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum may overwinter. <u>Resistance Management</u> : Do not apply more than four sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than eight applications of HERITAGE per acre per year. <u>Application Directions</u> : HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season at 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. Do not apply more than 4.0 pounds product/acre/season (2.0 lb. ai/A).

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FRUIT AND NUT TREES IN NURSERIES AND LANDSCAPES

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HERITAGE may be applied to fruit and nut trees in production nurseries and landscapes to control certain diseases. Follow the pre-harvest interval following applications prior to consuming fruits and nuts from those treated areas.

Сгор	Target Diseases	Use Rate oz product/A (Ib al/A)	Remarks
Almonds	Alternaria leaf and fruit spot (Alternaria alternata) Anthracnose (Colletotrichum acutatum) Brown Rot Blossom Blight (Monilinia Iaxa, M. fructicola) Leaf Blight (Seimatosporium lichenicola) Leaf rust (Tranzschelia discolor) Scab (Cladosporium carpophilum) Shothole (Wilsonomyces carpophilus)	3.2-8.0 (0.10-0.25)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation. Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. For all other almond diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year. Application Directions: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. For blossom blight begin applications at early bloom and continue through petal fall. For anthracnose, scab and shothole begin applications prior to disease development and continue at 10-14 day intervals throughout the season. Do not apply more than 3.0 potents product/acre/season (1.5 lb. ai/A).

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Pecans ^I ₩	Anthracnose (Glomerella cingulata) Scab	3.2-6.4 (0.10-0.20)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with tolerance to disease and removal of plant debris in which inoculum overwinters. Resistance Management: Do not apply more than four sequential sprays of
	(Cladosporium caryigenum)		 HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year. <u>Application Directions</u>: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). Do not apply within 45 days of harvest.

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
^I ^{II} Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plumcot Prune	Scab (Cladosporium carpophilum) Alternaria Spot and Fruit Rot (Alternaria alternata) Anthracnose (Colletotrichum pruicola, C. gloeosporioides) Leaf Rust (Tranzschelia discolor) Powdery Mildew (Sphaerotheca parnnosa, Podosphaera clandestina) Shot Hole (Wilsonomyces carpophilus) Brown Rot Blossom blight and Fruit rot (Monilinia fructicola, M. laxa)	3.2-8.0 (0.1-0.25) 6.4-8.0 (0.2-0.25)	 Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and pruning to provide sunlight and aeration into the canopy. Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population. Do not make more than six applications of HERITAGE per acre per year for all diseases. Do not make more than 4 applications of HERITAGE before alternating with fungicides that have a different mode of action. For brown rot blossom blight, - Begin applications at early bloom and continue through petal fall. Do not apply more than two applications of HERITAGE before alternating with fungicides that have a different mode of action. For brown rot blossom blight, - Begin applications at early bloom and continue through petal fall. Do not apply more than two applications of HERITAGE before alternating with fungicides that have a different mode of action. For scab, begin applications at petal fall and continue at 7-14 day intervals. For all other diseases, begin applications at petal fall and continue at 7-14 day intervals. For all other diseases, begin applications may be made by ground, air or chemigation Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). May be applied the day of harvest.

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Сгор	Target Diseases	Use Rate oz product/A (Ib ai/A)	Remarks
Tree Nuts Almonds (see specific use instructions) Beechnut Brazil nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory Macadamia Pecan Walnut	Alternaria leaf and fruit spot (Alternaria alternata) Anthracnose (Colletotrichum acutatum, Glomerella cingulata) Late blight (Alternaria alternata) Scab (Cladosporium carpophilum) Septoria leaf spot (Septoria pistaciarum) Shothole (Wilsonomyces carpophilus)	3.2-6.4 (0.10-0.20)	Integrated Pest (Disease) Management: HERITAGE should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation. Resistance Management: For blossom blight do not apply more than two sequential sprays of HERITAGE before alternating with a fungicide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. For all other diseases do not apply more than four sequential sprays of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE per acre per year. Application Directions: HERITAGE applications should begin prior to or in the early stages of disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.
specific use instructions)	Blossom Blight (Monilinia Iaxa, M. fructicola)	6.4 (0.20)	For blossom blight begin applications at early bloom and continue through petal fall. For all other diseases begin applications prior to or in the early stages of disease development and continue at 7-21 day intervals throughout the season. Do not apply more than 2.4 pounds product/acre/season (1.2 LB ai/A). Do not apply within 45 days of harvest.

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