

100-1093



4/9/2003 1/71  
**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

APR 9 2003

Michele A. Schulz  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Subject: Heritage® Flowable Fungicide  
EPA Registration Number 100-1093  
Your amended labeling submitted by e-mail on March 24,  
2003, further amended by the replacement page submit-  
submitted by e-mail on April 7, 2003

Dear Ms. Schulz,

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 because you have agreed to the following conditions for registration in accordance with FIFRA section 3(c)(7)(B).

1. You will submit, by no later than two (2) years after the date of this letter, the following studies in support of the tolerance for azoxystrobin in/on Berries, Caneberry Subgroup: 1) one additional field trial of the Caneberry Subgroup in Region 1 or 2 and 2) one additional field trial of the Caneberry Subgroup in Region 5 or 6.
2. You will make the following changes to the label:
  - a. In the second paragraph in the "RESISTANCE MANAGEMENT" section on page 8, in the sentence that begins "Consult your local or state..." change "resistant" to "resistance".
  - b. On page 13 in the footnote, at the end of the page, to the table the "and" in the string of row spacing/row feet items should be moved to between the last two items.
  - c. In the "Canola" subsection on page 20 in the "DIRECTIONS FOR USE" section, in the last of the "Specific Use Restrictions:" remove one of the occurrences of "more than".

2/7/1

d. In the "Cranberry" subsection on page 25, in the "Remarks" column is an occurrence of "ABOUND". Change this to "HERITAGE" or a similar name for the subject product.

e. In the "Cranberry" subsection on page 25, in the "Use Rate" column the high use rate of product is 4.8 ounces of product per acre while the high use rate of active ingredient is 0.25 pounds per acre. These are not equivalent. Either change the high use rate of product to 8.0 ounces per acre or else change the high use rate of active ingredient to 0.15 pounds per acre.

f. In the "Tree Nuts" subsection on page 42, in the "Crop" column after "Almonds" is a parenthetical statement. In this statement correct the spelling of "instructrions".

g. On page 57 in the "DISEASE (Pathogen)" column of the table at the top of the page, item 5.a. must have the spelling of "Collectotrichum" corrected.

3. You will 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,



Dennis McNeilly  
Acting Product Manager (22)  
Fungicide Branch  
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

3/71

**HERITAGE®**

Fungicide

Broad spectrum fungicide for control of plant diseases.

**Active Ingredient**

Azoxystrobin: methyl (E)-2-{2-[6-(2-cyanophenoxy)	
pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate* .....	50%
Other Ingredients: .....	50%
Total: .....	100%

Contains 0.5 lb. ai/lb. product

\*IUPAC

EPA Reg No. 100-1093

EPA Est.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

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

Product of the United Kingdom

SCP 100-XXX

Net Weight/U.S. Standard Measure

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

APR 9 2003

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.

100-1093

<b>FIRST AID</b>	
<b>If on skin or Clothing</b>	<ul style="list-style-type: none"> <li>- Take off contaminated clothing.</li> <li>- Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>- Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>- Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>- Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION**

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 (PPE)**

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 resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

5/71

#### **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.

#### **Environmental Hazards**

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 Syngenta Inc. immediately if you observe any adverse environmental effects due to use of this product.

6/7/1

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**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 SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, 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 the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA 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 SYNGENTA 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 SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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

**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.

**AGRICULTURAL USES**

**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:

- Coveralls
- ☐ Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

## NON-AGRICULTURAL USES

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.

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## STORAGE AND DISPOSAL

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### 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.



9/21

## 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

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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.

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## 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.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

HERITAGE has demonstrated some phytotoxic effects when mixed with products that are formulated as EC's. These effects are enhanced if applications are made under cool, cloudy conditions and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

### **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.

### **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.

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**

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. 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 environmental conditions conducive to disease exist.

11/71

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 only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application. 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.

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.

HERITAGE is incompatible with many fertilizers when low water volumes are used for in-furrow applications. Cold temperatures and water quality exacerbate these compatibility problems. Conduct a physical compatibility test as described in the paragraph below before making a field application.

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.

12/71

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## **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.

**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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## **APPLICATION INSTRUCTIONS**

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Apply HERITAGE Fungicide at rates and timings as described in this label.

### **Directions for Use Through Sprinkler and Drip Chemigation Systems:**

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

### **Use Precautions for Sprinkler and Drip Irrigation Applications:**

**Drip Irrigation:** HERITAGE Fungicide 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 (0.0625-0.5 lb ai/A) HERITAGE Fungicide 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.

13/71

**Sprinkler Irrigation:** Apply this product 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 1/2 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. Plant 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, solenoid-operated 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.

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.

14/71

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:

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, solenoid-operated 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."
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."

### SOILBORNE/SEEDLING DISEASE CONTROL

HERITAGE can provide control of many soilborne diseases if applied early in the growing season. Specific applications for soilborne diseases include in-furrow applications and banded applications applied over the row, either shortly after plant emergence or during herbicide applications or cultivation. These applications will provide control of pre- or post-emergence damping off and diseases that infect plants at the soil-plant interface.

The use of either type of application depends on the cultural practices in the region. In some locations, one type of application may provide better disease control than the other, depending on the timing of the disease epidemic. Seedling diseases are generally controlled by in-furrow applications while banded applications are more effective against soilborne diseases that develop later in the season. Consult your local expert to get some guidance regarding application type.

For banded applications, apply HERITAGE prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the lower stems and the soil surface surrounding the plants. Band width should be limited to 7 inches or less. Apply HERITAGE at a rate of 0.2-0.4 oz product (0.1-0.2 oz ai)/1000 row feet (for banded applications on 22-inch rows the maximum application rate is 0.35 oz/1000 row feet).. These applications come into contact with the foliage and are counted as foliar applications when considering resistance management. They may be applied during cultivation or hilling operations to provide soil incorporation.

For in-furrow applications, apply HERITAGE as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.

### IN-FURROW APPLICATION RATES

RATE PER 1000 ROW FEET		PRODUCT PER ACRE (oz)						
oz product	oz ai	22" Rows	30" rows	32" rows	34" Rows	36" rows	38" rows	40" rows
0.2	0.1	4.75	3.5	3.3	3.1	2.9	2.8	2.6
0.3	0.15	7.1	5.2	4.9	4.6	4.4	4.1	3.9

40" = 13,068 row ft, 38" = 13,754 row ft, 36" = 14,520 row ft, 34" = 15,374 row ft, 32" = 16,315 row ft, and 30" = 17,424 row ft, 22" =23,760 row ft/Acre

**Directions for Use**

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Almonds	Alternaria leaf and fruit spot <i>(Alternaria alternata)</i> Anthracnose <i>(Colletotrichum acutatum)</i> Leaf Blight <i>(Seimatosporium lichenicola)</i> Leaf rust <i>(Tranzschelia discolor)</i> Scab <i>(Cladosporium carpophilum)</i> Shothole <i>(Wilsonomyces carpophilus)</i>	3.2-8.0 (0.10-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential applications of HERITAGE or other strobilurins before alternation with a fungicide that has a different mode of action. Do not make more than six (6) applications of HERITAGE or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. HERITAGE may be applied by air only at growth stages prior to and including 5 weeks after petal fall. An adjuvant may be added at recommended rates to improve coverage.</p> <p>For anthracnose, scab and shothole begin applications prior to disease development and continue at 7-14 day intervals throughout the season.</p>
	Brown Rot Blossom Blight <i>(Monilinia laxa, M. fructicola)</i>	6.4 – 8.0 (0.20-0.25)	For blossom blight begin applications at early bloom and continue through petal fall. Do not make more than six (6) applications of HERITAGE or other strobilurin fungicides per acre per year.
<p>Specific Use Restrictions: Do not apply more than 3.0 pounds product/acre/season (1.5 lb. ai/A).            Do not apply within 28 days of harvest.</p>			

16/97



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Bananas Plantains	Black Sigatoka <i>(Mycosphaerella fijiensis)</i>  Yellow Sigatoka <i>(Mycosphaerella musicola)</i>	2.9-4.3 (0.09-0.135)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> 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 eight applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to 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.</p>
	Post Harvest Applications: Crown Rot/Crown Mold <i>(Colletotrichum musae,</i> <i>Fusarium pallidroseum,</i> <i>Acremonium spp.,</i> <i>Ceratocystis paradoxa,</i> <i>Glomerella cingulata,</i> <i>Penicillium spp.)</i>	200-400 ppm solution	Apply HERITAGE as a single application of a 200-400 ppm solution to achieve good coverage. The application may be made as a spray, dip or may be painted onto the cut ends of the bananas. Application of the 200 ppm rate is appropriate for short distance transportation (e.g. within the USA), when a longer time in transport is expected (export) use the 300-400 ppm rate. If alum (1%v/v) is added to the spray solution stir the suspension frequently as sedimentation and flocculation may occur. Addition of a Non-Ionic Surfactant (0.1%v/v) may improve the compatibility of this mixture.
<p>Specific Use Restrictions: Do not apply more than 2.16 pounds product/acre/season (1.08 lb ai/A).            May be applied the day of harvest.</p>			

16/6/17

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ <b>Barley</b>	Kernel Blight ( <i>Alternaria spp.</i> ) Leaf Rust ( <i>Puccinia hordei</i> )	3.2-6.4 (0.1-0.2)	<b>Integrated Pest (Disease) Management:</b> 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.
	Net Blotch ( <i>Pyrenophora teres</i> ) Barley Stripe ( <i>Pyrenophora graminea</i> )	4.8-6.4 (0.15-0.2)	
	Powdery Mildew ( <i>Erysiphe graminis f. sp. hordei</i> ) Stagonospora blotch ( <i>Stagonospora nodorum</i> )	6.4 (0.2)	<b>Application Directions:</b> HERITAGE should be applied prior to 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.
Specific Use Restrictions: 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 harvest treated barley for forage. Do not apply within 14 days of harvest for hay. Do not apply within 45 days of harvest for grain and straw. Do not apply more than 0.8 pounds product/acre/season (0.4 lb ai/A).			
✓ <b>Berries, Bushberry subgroup</b>  Blueberry Currant Elderberry Gooseberry Huckleberry Including all cultivars and/or hybrids of these  Lingonberry Juneberry Salal	Botryosphaeria canker ( <i>Botryosphaeria spp</i> ) Powdery mildew ( <i>Sphaerotheca spp</i> ) Septoria blight ( <i>Septoria spp</i> ) Mummyberry ( <i>Vaccinium spp.</i> ) Alternaria Fruit Rot ( <i>Alternaria spp.</i> ) Phomopsis stem canker ( <i>Phomopsis vaccinii</i> ) Anthracnose fruit rot ( <i>Colletotrichum gloeosporoides</i> )	3.2-8.0 (0.1-0.25)	<b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.  <b>Resistance Management:</b> 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 three (3) applications of HERITAGE or other strobilurin fungicide per acre per crop year.  <b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.
Specific Use Restrictions: Do not apply more than 1.5 pounds (0.75 lb active ingredient) per acre per season. May be applied the day of harvest.			

18/7/1

Page 18  
HED  
Review

Crop	Target Diseases	Use Rate oz product/A (lb a/A)	Remarks
<p><b>Berries</b> <b>caneberry subgroup:</b></p> <p>blackberry, bingleberry, boysenberry, dewberry, lowberry, marionberry, olallieberry, youngberry, loganberry, red and black raspberry, Including all cultivars and/or hybrids of these</p>	<p>Botryosphaeria canker (<i>Botryosphaeria dothidea</i>) Anthracnose (<i>Spaceloma necator</i>) (<i>Elsinoe veneta</i>) Powdery mildew (<i>Sphaerotheca macularis</i>) Leaf spot (<i>Septoria rubi</i>) (<i>Sphaerulina rubi</i>) Colletotrichum rot (<i>Colletotrichum gloeosporioides</i>) Spur blight (<i>Didymella applanata</i>) Rosette or double blossom of blackberries (<i>Cercospora rubi</i>)</p>	<p>3.2-8.0 (0.1-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential applications of HERITAGE or other strobilurins before alternating to a fungicide that has a different mode of action. Do not make more than 6 applications of HERITAGE or other strobilurin fungicide per season</p> <p><b>Application Directions:</b> Begin applications at onset of disease and continue as required until harvest. Make applications on a 7-14 day schedule. Use a minimum water volume of 10 gal per acre by ground and a minimum of 3 gal by air.</p>
<p>Specific Use Restrictions: Do not apply more than 3.0 pounds product (1.5 lb ai) per acre per season. May be applied the day of harvest.</p>			

19/7/1

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<p><b>Brassica</b>  <b>Leafy Greens subgroup:</b>                      Broccoli raab                      Cabbage, Chinese                      Collards                      Kale                      Mizuna                      Mustard greens                      Mustard spinach                      Rape greens                      Including all cultivars and/or hybrids of these</p> <p style="margin-left: 100px;">— Cabbage ?</p>	<p>White rust                      (<i>Albugo candida</i>)                      Black spot                      (<i>Alternaria spp</i>)                      Cercospora leaf spot                      (<i>Cercospora spp</i>)</p>	<p>3.2-8.0                      (0.1-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than three foliar applications of HERITAGE or other strobilurin fungicide per acre per crop year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
	<p><b>Soilborne Diseases</b>                      Seedling root rot, basal stem rot                      (<i>Rhizoctonia solani</i>)</p>	<p>0.2-0.4 oz /1000                      row feet</p>	<p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p>
<p>Specific Use Restrictions: Do not apply more than 1.5 pounds (0.75 lb active ingredient) per acre per season.                      May be applied the day of harvest.</p>			

20/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<b>Bulb Vegetables</b>  Garlic Leek Onion, bulb Onion, green Welch onion Shallot	<b>Foliar Diseases</b> Purple blotch <i>(Alternaria porri)</i> Rust <i>(Puccinia allii)</i> White rot <i>(Sclerotium cepivorum)</i>	3.2-6.4 (0.1-0.20)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p>
	Downy mildew <i>(Peronospora destructor)</i>  Botrytis leaf blight <i>(Botrytis aclada)</i>	4.8-8.0 (0.15-0.25)	<p><b>Application Directions:</b> For downy mildew control, <b>do not make more than one application of HERITAGE before alternating with fungicides that have a different mode of action.</b> Make preventative applications on a 5-7 day schedule. For all other diseases, HERITAGE applications should begin prior to 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. If applications are made by air, the higher rates should be used for adequate control. An adjuvant may be added at recommended rates to improve coverage.</p> <p>Mixtures of HERITAGE with insecticides and silicone adjuvants should be tested for crop safety before application to the crop.</p>
	<b>Soilborne Diseases</b> Rhizoctonia damping-off <i>(Rhizoctonia solani)</i>	0.2-0.4 oz /1000 row feet	<p>For soilborne/seedling disease control, see directions under GENERAL INFORMATION section. If the application is an in-furrow application, the spray should be made just prior to seed placement so that the majority of the chemical is under the seed. This will reduce the potential for phytotoxicity, especially if fertilizer is added to the application.</p>

Specific Use Restrictions: Do not apply more than 3.0 pounds of product/crop/acre/season (1.5 lbs ai/A).  
 May be applied the day of harvest.

2/1/12

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Canola	Blackleg ( <i>Leptosphaeria maculans</i> )  Alternaria Blackspot ( <i>Alternaria</i> spp)  Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management</b> Do not make more than three applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> For blackleg, HERITAGE applications should be made at the 2-4 leaf stage. For Alternaria or Sclerotinia, 4.8 - 8 oz product/A should be applied at 10-25% flowering (3-7 days following first flower). Use the higher rate under heavy disease pressure or when conditions are favorable for disease. For control of Alternaria alone, 4.2 oz product/A may be applied at pod stage (approximately 95% petal fall). Applications may be made by ground, air or chemigation.</p>
<p>Specific Use Restrictions: 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.</p>			
Carrot	Early blight ( <i>Cercospora carotae</i> )  Late blight ( <i>Alternaria dauci</i> )  White mold ( <i>Sclerotium rolfsii</i> )  For additional diseases, see Root Vegetables	4.8-9.6 (0.15-0.33)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to 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.</p>
	<b>Soilborne Diseases</b> Rhizoctonia root rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds of product/crop/acre/season (2.0 lbs ai/A). May be applied the day of harvest.</p>			

22/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<b>Celery</b>	Early blight ( <i>Cercospora apii</i> )  Late blight ( <i>Septoria apicola</i> )  For additional diseases, see Leafy Vegetables	4.8-8.0 (0.15-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to 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.</p>
	Soilborne Diseases Rhizoctonia root rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
<p>Specific Use Restrictions: Do not apply more than 3.0 pounds of product/crop/acre/season (1.5 lbs ai/A). May be applied the day of harvest</p>			
<b>Christmas Trees</b>	Diplodia tip blight ( <i>Diplodia pinea</i> )  Lophodermium needlecast ( <i>Lophodermium pinastri</i> )  Swiss needlecast ( <i>Phaeocryptopus gaumannii</i> )	3.2-8.0 (0.10-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than four sequential applications 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.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to 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.</p>
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds product/acre/season (2.0 lb. ai/A).</p>			

23/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Cilantro	See Leafy Vegetables – Coriander, leaves		
Citrus Fruit  Calamondin Citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma mandarin Tangerine Including all cultivars and/or hybrids of these	Greasy spot ( <i>Mycosphaerella citri</i> )  Melanose ( <i>Diaporthe citri</i> )  Scab ( <i>Elsinoe fawcettii</i> )  Albinism ( <i>Alternaria alternata pv citri</i> )  Post bloom fruit drop (PFD) ( <i>Colletotrichum acutatum</i> )  Alternaria leaf and fruit spot ( <i>Alternaria citri</i> )	6.4-8.0 (0.2-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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 of irrigation.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential applications of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Under conditions that favor severe disease epidemics, the higher application rates should be used. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p>
<p>Specific Use Restrictions: Do not use HERITAGE in citrus plant propagation nurseries.            Do not apply more than 3.0 pounds product/acre/season (1.5 lb ai/A).            May be applied the day of harvest.</p>			

24/71

24/71



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ Corn  Field, Sweet, Pop (Includes Seed Production)	Rust ( <i>Puccinia sorghi</i> )	3.2-4.8 (0.10-0.15)	<p><b>Integrated Pest (Disease) Management:</b> 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 water management practices.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than eight foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p> <p><b>Application Directions:</b> For gray leaf spot, apply HERITAGE at the onset of disease. A second application may be required 14 days later if disease pressure persists. For all other diseases, HERITAGE applications should begin prior to disease development and may 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.</p> <p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p>
	Anthracnose leaf blight ( <i>Colletotrichum graminicola</i> ) Gray leaf spot ( <i>Cercospora sorghi</i> ) Northern corn leaf blight ( <i>Setosphaeria turcica</i> ) Northern corn leaf spot ( <i>Cochliobolus carbonum</i> ) Southern corn leaf blight ( <i>Cochliobolus heterostrophus</i> ) Eye spot ( <i>Aureobasidium zeae</i> )	4.8-8.0 (0.15-0.25)	
	<b>Soilborne Diseases</b> Rhizoctonia root and stalk rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds of product/crop/acre/season (2.0 lbs ai/A).            Do not apply within 7 days of harvest.</p>			

25/7/11

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Cotton	Rhizoctonia seedling blight ( <i>Rhizoctonia solani</i> )  Pythium seedling blight ( <i>Pythium aphanidermatum</i> )	<b>Banded</b> 0.2-0.4 oz product per 1000 row feet (0.1-0.2 oz ai per 1000 row feet)	<b><u>Integrated Pest (Disease) Management:</u></b> 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 water management.  <b><u>Application Directions:</u></b> For banded applications, apply HERITAGE prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the lower stems and the soil surface surrounding the plants. Band width should be limited to 7 inches or less. Apply HERITAGE at a rate of 0.2 - 0.4 oz product (0.1-0.2 oz ai)/1000 row feet.
		<b>In-furrow</b> 0.2-0.4 oz product per 1000 row feet (0.1-0.2 oz ai per 1000 row feet)	For in-furrow applications, apply HERITAGE as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.. See GENERAL INFORMATION section for table illustrating total fluid ounces per acre with various row spacings
<b>Specific Use Restrictions:</b> Make only one application per use season.			

26/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Cranberry	Cottonball ( <i>Monilia oxycocci</i> )  Lophodermium twig blight ( <i>Lophodermium spp.</i> )  Fruit rots ( <i>Phylospora vaccinii</i> ) ( <i>Glomerella cingulata</i> ) ( <i>Coleophoma empetri</i> )	3.2-4.8 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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 water management.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential applications of HERITAGE or other strobilurins before alternating with a fungicide that has a different mode of action. Do not make more than six (6) applications of ABOUND or other strobilurin fungicides per crop per acre per year.</p> <p><b>Application Directions:</b> Begin applications at 5-10% bloom for fruit rot, cottonball, and twig blight. Continue applications on a 7-14 day schedule if conditions are favorable for disease development. Applications may be made by ground, chemigation or air.</p>
<p><b>Specific Use Restrictions:</b> May be applied up to three days prior to harvest (3-day PHI).                      Do not apply more 3 pounds product (1.5 lb ai) per acre per season.                      Do not treat cranberry 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 to flooded crop.                      Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.</p>			

27/71




Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<p><b>Grapes</b> Including Muscadines</p>	<p>Downy Mildew (<i>Plasmopara viticola</i>)</p> <p>Phomopsis Cane and Leaf Spot (<i>Phomopsis viticola</i>)</p> <p>Powdery Mildew (<i>Uncinula necator</i>)</p> <p>Black Rot (<i>Guignardia bidwellii</i>)</p> <p>Suppression: Botrytis bunch rot (<i>Botrytis cinerea</i>)</p>	<p>5.1-8.0 (0.16-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> 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 (6) applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> 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 to improve coverage.</p> <p style="text-align: center;"><b>ATTENTION</b></p> <p>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. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.</p>
<p>Specific Use Restrictions: Do not apply more than 3 pounds product/acre/season (1.5 lb ai/A). Do not apply within 14 days of harvest.</p>			

11/28/11

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ Grasses (grown for seed)	Rust ( <i>Puccinia spp</i> )  Powdery mildew ( <i>Erysiphe graminis</i> )  Ergot Stem Diseases	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation, crop rotation, and fertility.</p> <p><b>Resistance Management:</b> 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 two (2) applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
<p>Specific Use Restrictions: Do not apply more than 1 pound (0.50 lb active ingredient) per acre per season.            Do not feed treated straw, seed, or screenings to livestock.            May be applied up to 8 days prior to harvest (swathing).</p>			

30/7/1



 <b>Crop</b>	<b>Target Diseases</b>	<b>Use Rate oz product/A (lb ai/A)</b>	<b>Remarks</b>
<p><b>Legume Vegetables, dry and succulent (except field pea, cow pea, and soybean):</b>  <u>Bean (<i>Lupinus spp.</i>)</u> (includes grain lupin, sweet lupin, white lupin, and white sweet lupin).  <u>Bean (<i>Phaseolus spp.</i>)</u> (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean).  <u>Bean (<i>Vigna spp.</i>)</u> (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean).  <u>Broad bean (fava bean) (<i>Vicia faba</i>)</u>.  <u>Chickpea (garbanzo bean) (<i>Cicer arietinum</i>)</u>.            Guar (<i>Cyamopsis tetragonoloba</i>)            Jackbean (<i>Canavalia ensiformis</i>)            Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>).  <u>Lentil (<i>Lens esculenta</i>)</u>  <u>Pea (<i>Pisum spp.</i>)</u> (includes dwarf pea, edible-pod pea, English pea, garden pea, green pea, snow pea, sugar snap pea).            Pigeon pea (<i>Cajanus cajan</i>).            Sword bean (<i>Canavalia gladiata</i>)</p>	<p>Bean rust (<i>Uromyces appendiculatus</i>)</p> <p>Anthracnose (<i>Colletotrichum lindemuthianum</i>)</p> <p>Alternaria leaf spot (<i>Alternaria alternata</i>)</p> <p>Ascochyta leaf spot (<i>Ascochyta phaseolorum</i>)</p> <p>Rust (<i>Phakopsora spp.</i>)</p> <p>Southern blight (<i>Sclerotium rolfsii</i>)</p> <p>Web blight (<i>Rhizoctonia solani</i>)</p> <p>Ascochyta blight (<i>Mycosphaerella pinodes</i>)</p> <p>Ascochyta leaf and pod spot (<i>Ascochyta spp</i>)</p> <p>Alternaria blight (<i>Alternaria spp</i>)</p> <p><b>Soilborne diseases</b>            Rhizoctonia root rot (<i>Rhizoctonia solani</i>)</p>	<p>3.2 (0.10)</p> <p>3.2-8.0 (0.10-0.25)</p> <p>0.2-0.4 oz/1000 row feet</p>	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential foliar applications of HERITAGE or other strobilurin before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Use the higher rates under severe disease pressure. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage. For rust, use of a non-ionic surfactant for the lower use rate is recommended.</p> <p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p>
<p>Specific Use Restrictions: Do not apply more than 3 pounds product/acre/season (1.5 lb ai/A).            May be applied the day of harvest.</p>			

32/71



Crop	Target Diseases	Use Rate oz product/A (lb a/A)	Remarks
Mint (Fresh or for processing into mint oil)	Rust ( <i>Puccinia menthae</i> )  Powdery mildew ( <i>Erysiphe spp</i> )	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than three foliar applications of HERITAGE or other strobilurin fungicide per acre per crop year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
	<b>Soilborne Diseases</b> Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.
<p>Specific Use Restrictions: Do not apply more than 1.5 pounds (0.75 lb active ingredient) per acre per season.            For fresh mint may be applied the day of harvest.            For processed mint do not apply within 7 days prior to harvest.</p>			

33/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Peanuts	Early Leaf spot <i>(Cercospora arachidicola)</i>  Late Leaf spot <i>(Cercosporidium personatum)</i>  Pythium Pod Rot <i>(Pythium myriotylum)</i>  Rust <i>(Puccinia arachidis)</i>  Web blotch <i>(Phoma arachidicola)</i>	3.2-12.8 (0.10-0.40)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not make more than two foliar applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> 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. For control of Pythium, a rate of 12.8 oz is generally required. Additional applications of other labeled fungicides on a leaf spot application schedule will be required to provide season-long disease control of the leaf spot diseases. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p>
	<b>Soilborne Diseases</b> (in-furrow applications) Rhizoctonia Peg and Pod Rot <i>(Rhizoctonia solani)</i> Stem Rot/White Mold <i>(Sclerotium rolfsii)</i>	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
Specific Use Restrictions: Do not apply more than 1.6 pounds product/acre/season (0.8 lbs ai/acre/season). Do not apply within 14 days of harvest.			

34/11

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Pecans	Anthracnose ( <i>Glomerella cingulata</i> )  Scab ( <i>Cladosporium caryigenum</i> )	3.2-6.4 (0.10-0.20)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than four sequential foliar applications of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> 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 to improve coverage.</p>
Specific Use Restrictions: Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). Do not apply within 45 days of harvest.			
Pepper  Bell Pepper Non-Bell Pepper Sweet Non-Bell Pepper  Eggplant Okra	Powdery mildew ( <i>Sphaerotheca spp</i> )  Anthracnose ( <i>Colletotrichum spp</i> )  Soilborne Diseases Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	3.2-8.0 (0.1-0.25)         0.2-0.4 oz /1000 row feet	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than four foliar applications of HERITAGE or other strobilurin fungicide per acre per crop year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p>
Specific Use Restrictions: Do not apply more than 2 pounds (1.0 lb active ingredient) per acre per season. May be applied the day of harvest.			

35/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Pistachios	Alternaria Late Blight <i>(Alternaria alternata)</i>  Botryosphaeria panicle and shoot blight <i>(Botryosphaeria dothidea)</i>  Septoria leaf spot <i>(Septoria pistaciarum)</i>	3.2-8.0 (0.10-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than four sequential applications of HERITAGE before alternation with a fungicide that has a different mode of action. Do not make more than six applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> 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.</p>
<p>Specific Use Restrictions: Do not apply more than 3.0 pounds product/acre/season (1.5 lb ai/A).            Do not apply within 7 days of harvest.</p>			

36/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Potatoes	Early Blight ( <i>Alternaria solani</i> )  Late Blight ( <i>Phytophthora infestans</i> )  Black dot ( <i>Colletotrichum coccodes</i> )  Powdery mildew ( <i>Erysiphe cichoracearum</i> )	3.2-9.6 (0.1-0.33)	<p><b>Integrated Pest (Disease) Management:</b> 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, seedpiece treatment, and disease forecasting.</p> <p><b>Resistance Management:</b> Do not make more than one application of HERITAGE before alternation 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 foliar applications per year.</p> <p><b>Application Directions:</b> For both early and late blight, maintain the alternation program described above.</p> <p>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.</p> <p>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. For all other diseases, HERITAGE applications should begin prior to 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. Addition of a spreader/sticker may improve coverage. Do not make more than six applications of HERITAGE per acre per year for all diseases.</p>
	<b>Soilborne Diseases</b> Black scurf ( <i>Rhizoctonia solani</i> )  Silver scurf ( <i>Helminthosporium solani</i> )	2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
<p>Specific Use Restrictions: Do not apply more than 4 pounds product/acre/season (2.0 lb ai/A).            Do not apply within 14 days of harvest.</p>			

37/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Rice	<b>Sheath/Stem Diseases</b> Sheath Blight <i>(Rhizoctonia solani)</i>	3.2-9.6 (0.10 - 0.30)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> 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 foliar applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE should be applied prior to 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.</p> <p>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 development, a second application may be applied.</p> <p>For foliar and panicle diseases, apply HERITAGE prior to 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 at mid-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).</p>
	Aggregate Sheath Spot <i>(Rhizoctonia oryzae-sativae)</i>  Black Sheath Rot <i>(Gaeumannomyces graminis var. graminis)</i>	4.8-9.6 (0.15-0.30)	
	Sheath Spot <i>(Rhizoctonia oryzae)</i> Stem Rot <i>(Sclerotium oryzae)</i>		
	<b>Foliar Diseases</b> Brown Leaf spot <i>(Cochliobolus miyabeanus)</i> Leaf Smut <i>(Entyloma oryzae)</i> Narrow Brown Leaf spot <i>(Cercospora oryzae)</i>		
	<b>Panicle Diseases</b> Kernel Smut <i>(Neovossia barclayana)</i> Panicle Blast <i>(Pyricularia grisea)</i>		
<p>Specific Use Restrictions: 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 more than 1.4 pounds of product/acre/season (0.7 lb ai/A). Do not apply within 28 days of harvest. Do not allow release of irrigation or flood water for at least 14 days after the last application.</p>			

38/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Roses	Black Spot ( <i>Diplocarpha rosae</i> )  Downy Mildew ( <i>Peronospora sparsa</i> )  Powdery Mildew ( <i>Sphaerotheca pannosa</i> )  Rust ( <i>Phragmidium mucronatum</i> , <i>P. tuberculatum</i> , and other <i>Phragmidium</i> spp)  Septoria Leaf Spot ( <i>Septoria rosea</i> )  Alternaria Leaf Spot ( <i>Alternaria alternata</i> )	1.6-8.0 (0.05-0.25)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> 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 of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> 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 to improve coverage.</p> <p><b>Plant Safety:</b> 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.</p>
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds product/acre/season (2.0 lb ai/A).</p>			

39/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Soybeans	Aerial blight ( <i>Rhizoctonia solani</i> )	4.8-8.0 (0.15-0.25)	<b>Integrated Pest (Disease) Management:</b> 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.
	Rust ( <i>Phakopsora</i> spp.)		
	Anthracnose ( <i>Colletotrichum truncatum</i> ) Alternaria leaf spot ( <i>Alternaria</i> spp) Brown spot ( <i>Septoria glycines</i> ) Cercospora blight and leaf spot ( <i>Cercospora kikuchii</i> ) Frogeye leafspot ( <i>Cercospora sojina</i> ) Pod and Stem blight ( <i>Diaporthe phaseolorum</i> )	4.8-8.0 (0.15-0.25)	<b>Resistance Management:</b> No more than two foliar applications of HERITAGE or other strobilurin fungicide should be made per growing season. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.  <b>Application Directions:</b> HERITAGE applications should begin prior to disease development. Apply HERITAGE at 4.8-8.0 oz per acre. Use the high rates under conditions favorable for severe disease pressure, dense plant canopies, or when susceptible varieties are planted. Contact Extension personnel for local economic thresholds and timings for specific diseases in your area. Applications may be made by ground, air or chemigation. Use of a non-ionic surfactant with the lower use rate is recommended.
	<b>Soilborne Diseases</b> Southern blight ( <i>Sclerotium rolfsii</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
<p>Specific Use Restrictions: May be applied the day of harvest to soybean forage and hay.          Do not apply more than 3.0 pounds of product/crop/acre/season (1.5 lbs ai/A).          Do not make more than one application at 8.0 oz product/acre or 0.25 lbs ai/A to soybean forage and hay.          Do not apply within 14 days of harvest of soybeans (bean).</p>			



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<p><b>Stone Fruit</b></p> <p>Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plumcot Prune</p>	<p>Scab (<i>Cladosporium carpophilum</i>) Alternaria Spot and Fruit Rot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum prunicola</i>, <i>C. gloeosporioides</i>) Leaf Rust (<i>Tranzschelia discolor</i>) Powdery Mildew (<i>Sphaerotheca pannosa</i>, <i>Podosphaera clandestina</i>) Shot Hole (<i>Wilsonomyces carpophilus</i>)</p> <p>Brown Rot Blossom blight and Fruit rot (<i>Monilinia fructicola</i>, <i>M. laxa</i>)</p>	<p>3.2-8.0 (0.1-0.25)</p> <p>6.4-8.0 (0.2-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> For blossom blight do not apply more than two sequential applications 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 applications 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 or other strobilurin fungicide per acre per year at 8 oz product/A (0.25 lb ai/A).</p> <p><b>Application Directions:</b> 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 on fruit, 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.</p> <p>Applications may be made by ground, air or chemigation</p>
<p>Specific Use Restrictions: Do not apply more than 2.4 pounds product/acre/season (1.2 lb ai/A). May be applied the day of harvest.</p>			

4/1/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ Strawberry	Anthracnose ( <i>Colletotrichum fragariae</i> )  Powdery mildew ( <i>Sphaerotheca macularis</i> )  Suppression of Botrytis on the foliage ( <i>Botrytis cinerea</i> )	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of HERITAGE or other strobilurin fungicide per acre per crop year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
	<b>Soilborne Diseases</b> Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	<p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p><b>For dip applications at transplanting for commercial berry production:</b> For suppression of root and crown rot caused by <i>Colletotrichum</i> spp., mix 2.5-4.2 oz of HERITAGE per 100 gal of water. Dip plants for 2-5 minutes. Plant treated plants as quickly as possible. It is recommended that transplants be washed to remove excess soil prior to dipping. For continued anthracnose control, follow with foliar applications beginning 2-3 weeks after transplant.</p>
<p>Specific Use Restrictions: Do not use in plant propagation nurseries.                      Do not apply more than two (2) pounds per acre per season (1.0 lb ai/A).                      May be applied the day of harvest.</p>			

42/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
Tomatoes	Anthracnose ( <i>Colletotrichum coccodes</i> ) Black Mold ( <i>Alternaria alternata</i> ) Buckeye Rot ( <i>Phytophthora spp.</i> ) Early Blight ( <i>Alternaria solani</i> ) Powdery Mildew ( <i>Oidiopsis sicula</i> ) Septoria Leaf spot ( <i>Septoria lycopersici</i> ) Target spot ( <i>Corynespora cassicola</i> )	0.8-3.2 (0.025-0.10)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> 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 late 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 foliar applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. For late blight HERITAGE should be applied at 5-7 day intervals, <b>do not make more than one application of HERITAGE before alternating</b> 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.</p>
	Late Blight ( <i>Phytophthora infestans</i> )	1.6-3.2 (0.05 - 0.10)	<p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. For late blight HERITAGE should be applied at 5-7 day intervals, <b>do not make more than one application of HERITAGE before alternating</b> 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.</p>
	<b>Soilborne Diseases</b> Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.
<p>Specific Use Restrictions: HERITAGE should not be applied until 21 days after transplanting or 35 days after seeding. 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 more than 1.6 pounds product/acre/season (0.8 lb ai/A) May be applied the day of harvest.</p>			

43/11



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ Tropical Fruit Acerola Atemoya Avocado Biriba Canistel Cherimoya Custard apple Feijoa Guava Ilama Jaboticaba Jackfruit Longan Loquat Lychee Mango Papaya Passionfruit Pawpaw Persimmon Pulasan Pummello Rambutan Sapodilla Sapote, black Sapote, mamey Sapote, white Soursop Star apple Starfruit Sugar apple Spanish lime Tamarind Uniq fruit	Anthracnose ( <i>Colletotrichum spp</i> )  Rust ( <i>Puccinia spp</i> )  Cercospora leaf spot ( <i>Cercospora spp</i> )	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> 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 (6) applications of HERITAGE or other strobilurin fungicide per acre per crop year.</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
	<b>Soilborne Diseases</b> Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	0.2-0.4 oz /1000 row feet	For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.
<p>Specific Use Restrictions: Do not apply more than 3.0 pounds (1.5 lb active ingredient) per acre per season.            May be applied the day of harvest.</p>			



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<p>✓ <b>Vegetables, root, subgroup:</b></p> <p>Beet, garden and sugar Burdock Carrot Celeriac Chervil, turnip-rooted Chicory Ginseng Horseradish Parsley, turnip-rooted Parsnip Radish Radish, oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip</p>	<p><b>Foliar Diseases</b></p> <p>Alternaria leaf spot (<i>Alternaria</i> spp, <i>A. alternata</i>) Ascochyta leaf spot (<i>Ascochyta cynarae</i>) Powdery mildew (<i>Erysiphe polygoni</i>, <i>Leveillula taurica</i>) Rust (<i>Uromyces betae</i>, <i>Puccinia helianthi</i>) Cercospora leaf spot (<i>Cercospora betae</i>, <i>C. pastinaceae</i>) White rust (<i>Albugo tragopogonis</i>)</p>	<p>3.2-9.6 (0.1-0.33)</p>	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p> <p><b>Application Directions:</b> For powdery mildew control, do not make more than one application of HERITAGE before alternating with fungicides that have a different mode of action. Make preventative applications on a 5-7 day schedule. For all other diseases, HERITAGE applications should begin prior to 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.</p>
	<p><b>Soilborne Diseases</b></p> <p>Circular spot, Southern blight (<i>Sclerotium rolfsii</i>) Rhizoctonia stem canker, Crown rot (<i>Rhizoctonia solani</i>) Pythium root rot (<i>Pythium aphanidermatum</i>)</p>	<p>0.2-0.4 oz /1000 row feet</p>	<p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p>
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds of product/crop/acre/season (2.0 lbs ai/A). May be applied the day of harvest.</p>			

47/71

Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
<p><b>Vegetables, tuberous and corm, subgroup:</b></p> <p>Arracacha Arrowroot Artichoke, Chinese and Jerusalem Burdock Canna Cassava, edible, bitter and sweet Chayote (root) Chufa Dasheen (Taro) Ginger Leren Potato Sweet Potato Tanier Turmeric Yam, bean Yam, true</p>	<p><b>Foliar Diseases</b></p> <p>Alternaria leaf spot (<i>Alternaria</i> spp, <i>A. Alternata</i>) Ascochyta leaf spot (<i>Ascochyta cynarae</i>) Powdery mildew (<i>Erysiphe polygoni</i>, <i>Leveillula taurica</i>) Rust (<i>Uromyces betae</i>, <i>Puccinia helianthi</i>) Cercospora leaf spot (<i>Cercospora betae</i>, <i>C. pastinaceae</i>) White rust (<i>Albugo tragopogonis</i>)</p>	<p>3.2-9.6 (0.1-0.33)</p>	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential foliar applications of HERITAGE or other strobilurin before alternating with a fungicide that has a different mode of action. Do not make more than six foliar applications of HERITAGE or other strobilurin fungicide per crop per acre per year.</p> <p><b>Application Directions:</b> For powdery mildew control, do not make more than one application of HERITAGE before alternating with fungicides that have a different mode of action. Make preventative applications on a 5-7 day schedule. For all other diseases, HERITAGE applications should begin prior to 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.</p>
	<p><b>Soilborne Diseases</b></p> <p>Circular spot, Southern blight (<i>Sclerotium rolfsii</i>) Rhizoctonia stem canker, Crown rot (<i>Rhizoctonia solani</i>) Pythium root rot (<i>Pythium aphanidermatum</i>)</p>	<p>0.2-0.4 oz /1000 row feet</p>	<p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p>
<p>Specific Use Restrictions: Do not apply more than 4.0 pounds of product/crop/acre/season (2.0 lbs ai/A). Do not apply within 14 days of harvest</p>			

48/71



Crop	Target Diseases	Use Rate oz product/A (lb ai/A)	Remarks
✓ Watercress	Cercospora leaf spot ( <i>Cercospora spp</i> )	3.2-8.0 (0.1-0.25)	<p><b>Integrated Pest (Disease) Management:</b> HERITAGE should be integrated into an overall disease management strategy that includes varieties with disease tolerance, insect control and proper fertilization..</p> <p><b>Resistance Management:</b> 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 three applications of HERITAGE or other strobilurin fungicide per acre per cutting (2 cuttings per year).</p> <p><b>Application Directions:</b> HERITAGE applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p>
<p>Specific Use Restrictions: Do not apply more than 1.5 pounds per cutting          Do not apply more than 3 pounds (1.5 lb active ingredient) per acre per season.          May be applied up to 7 days prior to harvest.</p>			
✓ Wheat Triticale	Leaf Rust ( <i>Puccinia recondita f.sp. tritici</i> ) Stripe Rust ( <i>Puccinia striiformis</i> ) Stem Rust ( <i>Puccinia graminis</i> ) Septoria Leaf and Glume Blotch ( <i>Septoria tritici</i> , <i>Septoria nodorum</i> ) Tan Spot ( <i>Pyrenophora tritici-repentis</i> )	2.2- 6.4 (0.07-0.20)	<p><b>Integrated Pest (Disease) Management:</b> 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.</p> <p><b>Resistance Management:</b> Do not make more than two applications of HERITAGE or other strobilurin fungicide per acre per year.</p> <p><b>Application Directions:</b> HERITAGE should be applied prior to 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.</p>
<p>Specific Use Restrictions: 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 harvest treated wheat for forage.          Do not apply more than 0.8 pounds product/acre/season (0.4 lb ai/A).          Do not apply within 14 days of harvest for hay.          Do not apply within 45 days of harvest for grain and straw.</p>			

49/71

5/7/11

**HERITAGE Rate Conversion Chart**

Ounces Product/A	Lb. a.i./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

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

HERITAGE Use Rate	100.0 gals. Spray Solution
200 ppm	5.5 oz
300 ppm	8 oz
400 ppm	11 oz

**TURF:**

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 golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

**Integrated Pest (Disease) Management (IPM):** 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.

**Resistance Management:** Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. HERITAGE should be applied 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. Do not apply more than two sequential HERITAGE applications for *Pythium* spp. control. For all other diseases when *Pythium* spp. is not present, do not apply more than four sequential applications of HERITAGE.

**Application Directions:** HERITAGE should be applied prior to 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.

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

**Dollar Spot:** HERITAGE does not control dollar spot. HERITAGE is compatible in tank mixes with many other fungicides that control dollar spot. Always tank mix HERITAGE with another fungicide that controls dollar spot when this disease is present. Follow directions under TANK MIXES/COMPATIBILITY above.

### DIRECTIONS FOR APPLICATION FOR TURF DISEASES

Target Diseases	Use Rate (oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Anthracnose ( <i>Colletotrichum graminicola</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Brown Patch ( <i>Rhizoctonia solani</i> )	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.
Fairy Ring ( <i>Lycoperdon</i> spp., <i>Agrocybe pediades</i> , and <i>Bovistia plumbea</i> )	0.4	28	Apply as soon as possible after fairy ring symptoms develop. Apply only in 4 gallons water per 1000 square feet (174 gallons/acre). Add the recommended rate of a wetting agent to the final spray. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. Reapplication after 28 days may be required in some cases.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.2-0.4	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	0.2-0.4	14-28	Begin applications before disease is present and continue applications while conditions are favorable for disease development.
Gray Snow Mold Typhula blight ( <i>Typhula incarnata</i> , <i>T. ishikariensis</i> )	0.7 0.4	single application 10-28	Make a single application of 0.7 oz or two applications of 0.4 oz spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil, may enhance control under severe disease pressure.
Leaf Rust Stem Rust Stripe Rust ( <i>Puccinia</i> spp.)	0.2 to 0.4	14 to 28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Leaf spot ( <i>Bipolaris sorokiniana</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.
Melting Out ( <i>Drechslera poae</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.
Necrotic Ring Spot ( <i>Leptosphaeria korrae</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Pink Patch ( <i>Limonomyces roseipellis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Pink Snow Mold ( <i>Microdochium nivale</i> )	0.7 0.4	single application 10-28	Make a single application of 0.7 oz or two applications of 0.4 oz spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil may enhance control under severe disease pressure.

Target Diseases	Use Rate (oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Powdery Mildew ( <i>Erysiphe graminis</i> )	0.2 to 0.4	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Pythium Blight Pythium Root Rot ( <i>Pythium aphanidermatum</i> , <i>Pythium</i> spp.)	0.2-0.4	10-14	Use preventatively. Begin applications before disease is present. During periods of prolonged favorable conditions, treat on the 10 day application interval. For use on newly seeded as well as established turf.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Rhizoctonia Large Patch ( <i>Rhizoctonia solani</i> )	0.2-0.4	14-28	Make one or two applications in fall or when conditions are favorable for disease development.
Southern Blight ( <i>Sclerotium rolfsii</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Spring Dead Spot ( <i>Leptosphaeria korrae</i> ) or ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> ) or ( <i>Ophiosphaerella</i> <i>herpotricha</i> )	0.2-0.4	14-28	Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/4" to 1/2" 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 ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	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 ( <i>Rhizoctonia solani</i> and/or <i>Gaeumannomyces crustana</i> )	0.2-0.4	14-28	Apply 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply 14 to 28 days later.

\* Do not apply more than two sequential applications of HERITAGE for control of *Pythium* spp. For all other diseases when *Pythium* spp is not present, do not apply more than four sequential applications of HERITAGE.

**HERITAGE Rate Conversion Chart for Turf**

Ounces Product Per 1000 Sq. Ft.	Ounces A.I. Per 1000 Sq. Ft.	Ounces Product Per Acre	Pounds Product Per Acre
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

## ORNAMENTALS

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 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. Immunoassay 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.

**Resistance Management:** 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.

**Application Directions:** 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 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 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 the recommended use rate may enhance coverage on hard-to-wet plant foliage.

Under most conditions and for most diseases, apply 2-4 oz./ 100 gallons on a 7-14 day interval.

56/71

Under light to moderate disease pressure, use the lower rates (1-2 oz./ 100 gallons) on a 7-14 day interval or the higher rates (3-4 oz./ 100 gallons) on a 14-28 day interval.

Under environmental conditions which promote severe disease development, use the higher rates (3-4 oz./ 100 gallons) on a 7-14 day interval.

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

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

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.

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

**Drench Application:** HERITAGE may be applied to control soilborne, seedling, and crown diseases of production ornamentals (greenhouse, shadehouse, and container 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.

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.

**Drip Irrigation:** 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.



**General Ornamental Use Precautions**

Do not apply HERITAGE to apple or cherry trees (Flowering, Yoshina variety) due to possible phytotoxicity. Further, do not use spray equipment that has applied HERITAGE 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. The professional user should conduct small scale testing to insure plant safety prior to broadscale commercial use on plant genera and species not listed on this label.

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

DISEASE (Pathogen)	SPECIAL USE COMMENTS
1. CONIFER BLIGHTS	
a. Phomopsis Blight ( <i>Phomopsis juniperovora</i> )	Apply 1-4 oz/100 gal every 7-28 days
b. Tip Blight ( <i>Sirococcus strobilinus</i> )	Apply 1-4 oz/100 gal every 7-28 days
2. LEAF BLIGHTS/LEAF SPOTS	
a. Alternaria Leaf Spot ( <i>Alternaria</i> spp.)	Apply 1-4 oz/100 gal every 7-28 days
b. Anthracnose ( <i>Colletotrichum</i> spp., <i>Elsinoe</i> spp.)	Apply 1-4 oz/100 gal every 7-28 days
c. Downy Mildew of Rose ( <i>Peronospora sparsa</i> )	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 ( <i>Entomosporium mespili</i> )	Apply 1-4 oz/100 gal every 7-28 days
e. Fern Anthracnose ( <i>Colletotrichum acutatum</i> )	Apply 3-6 oz/acre every 7-14 days Do not apply through air blast sprayer due to possible phytotoxicity.
f. Iris Leaf Spot ( <i>Mycosphaerella macrospora</i> )	Apply 2-4 oz/100 gal every 7-21 days
g. Leaf spot ( <i>Cladosporium echinulatum</i> )	Apply 1-4 oz/100 gal every 7-28 days
h. Rose Blackspot ( <i>Diplocarpon rosea</i> )	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
i. Myrothecium leaf spot ( <i>Myrothecium</i> spp.)	Apply 2-4 oz/100 gal every 7-21 days
j. Downy Mildew of Snapdragon ( <i>Peronospora antirrhini</i> )	Apply 1-4 oz/100 gal every 7-28 days
k. Scab ( <i>Venturia inaequalis</i> )	Apply 1-4 oz/100 gal every 10-28 days. Do not apply to apple trees. For crabapples only, see Table 4 for tolerant species.
3. POWDERY MILDEW	Preventative applications only. Do not make more than 2 sequential applications before rotating to another class of fungicide.
a. <i>Erysiphe pannosa</i> , <i>E. spp.</i>	Apply 1-4 oz/100 gal every 7-28 days
b. <i>Microsphaera azaleae</i>	Apply 1-4 oz/100 gal every 7-28 days
c. <i>Sphaerotheca pannosa</i>	Apply 1-4 oz/100 gal every 7-28 days
4. RUSTS	
a. Needle Rust ( <i>Melampsora occidentalis</i> )	Apply 1-4 oz/100 gal every 7-28 days

DISEASE (Pathogen)	SPECIAL USE COMMENTS
b. <i>Phragmidium</i> spp.	Apply 1-4 oz/100 gal every 7-28 days
c. <i>Puccinia</i> spp.	Apply 1-4 oz/100 gal every 7-28 days
5. FLOWER BLIGHTS	
a. Anthracnose ( <i>Collectotrichum</i> spp., <i>Elsinoe</i> spp.)	Apply 1-4 oz/100 gal every 7-28 days
b. Botrytis Blight ( <i>Botrytis cinerea</i> )	Apply 4-8 oz/100 gal every 7-21 days For suppression only. Do not exceed 24 oz/acre.
6. SHOOT/STEM DISEASES	
a. Aerial/Shoot Blight ( <i>Phytophthora</i> 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. <i>Rhizoctonia solani</i>	Apply 1-4 oz/100 gal every 7-21 days
b. <i>Sclerotium rolfsii</i>	Apply 1-4 oz/100 gal every 7-21 days
c. <i>Fusarium</i> spp.	Apply 1-4 oz/100 gal every 7-21 days
8. SOILBORNE DISEASES (Drench)	See Ornamentals Section for additional drench directions.
a. <i>Rhizoctonia solani</i>	Apply 0.2-0.9 oz/100 gal, 1-2 pints of the solution per square foot surface area, every 7-28 days
b. <i>Sclerotium rolfsii</i>	Apply 0.2-0.9 oz/100 gal, 1-2 pints of the solution per square foot surface area, every 7-28 days
c. <i>Fusarium</i> spp.	Apply 0.2-0.9 oz/100 gal, 1-2 pints of the solution per square foot surface area, every 7-28 days

**PLANT SAFETY:** HERITAGE Fungicide has been shown to be safe when applied to the ornamental plants listed in Tables 2, 3, and 4. 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.

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.

60/71

**Tolerant Ornamental Plants:** HERITAGE Fungicide has been found to be safe when applied to the plants listed in Tables 2, 3 and 4 when applied according to recommended application methods, rates, and timings:

**TABLE 2: Tolerant Plants Listed by Botanical Name:**

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Abelia</i> spp.	Abelia	2
<i>Abies fraseri</i>	Fraser fir	1, 4
<i>Acer palmatum</i>	Japanese maple	2
<i>Acer saccharum</i>	Sugar maple	2
<i>Ageratum</i> spp.	Floss-Flower	3, 4
<i>Ageratum</i> spp.	Pussy's-Foot	3, 4
<i>Aglaonema</i> spp.	Chinese evergreen	2, 4
<i>Ajuga reptans</i>	Bugle, Bugleweed	3
<i>Antirrhinum</i> spp.	Snap-Dragon	2d, 3, 4
<i>Aphelandra</i> spp.	Zebra-Plant	2
<i>Artemisia</i> spp.	Mugwort, Sagebrush	2
<i>Artemisia</i> spp.	Wormwood	2
<i>Aster</i> spp.	Aster, Starwort	4
<i>Aucuba japonica</i>	Japanese aucuba, Japanese laurel	7
<i>Begonia</i> spp. (except Rieger begonia)	Begonia	2, 3
<i>Berberis thunbergii</i>	Barberry	3, 4
<i>Betula nigra</i>	River birch	3, 4
<i>Bougainvillea</i> spp.	Bougainvillea	2
<i>Brassaia actinophylla</i>	Rubber-tree, Umbrella-tree	2, 7
<i>Buddleia davidii</i>	Buddleia, Butterfly-bush	2
<i>Buxus sempervirens</i>	Boxwood	2, 7a
<i>Caladium</i> spp.	Caladium	7
<i>Camellia japonica</i>	Camellia	2
<i>Caryota urens</i>	Sago Palm	2, 7
<i>Catharanthus roseus</i>	Vinca	2
<i>Ceanothus sanguineus</i>	Wild lilac	3
<i>Ceanothus</i> spp.	Ceanothus, California lilac, Snowball	3
<i>Cedrus atlantica</i>	Atlas cedar	2, 4

6/71

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Cedrus</i> spp.	White cedar	2, 4
<i>Cercis occidentalis</i>	Western redbud	2
<i>Chamaecyparis</i> spp.	Cypress, Leyland cypress	1
<i>Chamaecyparis pisifera</i>	Sawara cypress	1
<i>Chamaedora elegans</i>	Parlor palm	7
<i>Chrysanthemum</i> spp.	Chrysanthemums	2, 7c
<i>Clethra alnifolia</i>	Clethra, White alder	2
<i>Cornus</i> spp.	Dogwood, Pink dogwood, Flowering dogwood	2b, 3
<i>Cornus florida</i>	Dogwood	2b, 3
<i>Cortaderia selloana</i>	Pampas grass	3
<i>Cotoneaster adpressus</i>	Creeping cotoneaster	7
<i>Cotoneaster horizontalis</i>	Cotoneaster - variegated rockspray	7
<i>Cyclamen</i> spp.	Cyclamen	7c
<i>Cyperus</i> spp.	Cyperus	1
<i>Delphinium</i> spp.	Larkspur	2
<i>Dianthus caryophyllus</i>	Carnation	3, 4
<i>Dianthus</i> spp.	Pink	3, 4
<i>Dieffenbachia</i> spp.	Dumb-Cane	2
<i>Dietes iridiodes</i>	African iris, Butterfly iris	4c
<i>Digitalis</i> spp.	Foxglove	2, 3
<i>Epipremnum</i> spp.	Pothos	2
<i>Erica dareyensis</i>	Heather	2
<i>Euonymus alata</i>	Dwarf winged euonymus	2
<i>Euonymus alatus</i>	Burning bush	2
<i>Euonymus japonicus</i>	Evergreen euonymus	2
<i>Euphorbia</i> spp.	Poinsettia	2a
<i>Fatsia japonica</i>	Japanese fatsia, Paper-plant	2
<i>Ficus</i> spp.	Fig	2
<i>Forsythia viridissima</i>	Forsythia	2
<i>Gaillardia</i> spp.	Blanket-Flower	2
<i>Gardenia jasminoides</i>	Gardenia	3
<i>Geranium</i> spp.	Cranesbill	5b
<i>Gerbera jamesonii</i>	Gerber daisy, Transvaal daisy	3
<i>Hedera algeriensis</i>	Algerian ivy	2

62/71

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Hedera helix</i>	English ivy	2
<i>Hibiscus moscheutos</i>	Hibiscus	2, 3
<i>Hibiscus rosa-sinensis</i>	Hibiscus	2, 3
<i>Hibiscus syriacus</i>	Rose of Sharon	2, 3
<i>Hosta</i> spp.	Hosta	2
<i>Hydrangea macrophylla</i>	French hydrangea	2c, 3
<i>Hydrangea</i> spp.	Hydrangea	2c, 3
<i>Ilex</i> spp.	Holly, Winterberry, Yaupon	3
<i>Impatiens</i> spp. <sup>1</sup>	Balsam, Impatiens <sup>1</sup>	2a, 7a
<i>Itea virginica</i>	Virginia willow	3, 4
<i>Juniperus procumbens</i>	Juniper	1a, 4
<i>Juniperus scopulorum</i>	Juniper	1a, 4
<i>Juniperus</i> spp.	Juniper	1a, 4
<i>Juniperus virginiana</i>	Red cedar	1a, 4
<i>Lagerstroemia indica</i>	Crapemyrtle	2c, 3
<i>Laurus nobilis</i>	Laurel	3
<i>Liriope muscari</i>	Lily-turf	2
<i>Lobularia maritima</i>	Sweet alyssum	7
<i>Magnolia grandiflora</i>	Southern magnolia	2
<i>Magnolia soulangiana</i>	Saucer magnolia	2
<i>Magnolia</i> spp.	Magnolia	2
<i>Malus</i> spp.	Crabapple (See Table 4 for variety list)	2k
<i>Nandina domestica</i>	Nandina	2
<i>Nerium oleander</i>	Oleander, Rose-bay	2
<i>Pelargonium</i> spp.	Geranium	3, 4, 5b
<i>Pennisetum alopecuroides</i>	Grass	2
<i>Peperomia</i> spp.	Baby rubber-plant	2, 7
<i>Petunia</i> spp.	Petunia	6a
<i>Phalaris</i> spp.	Dwarf pampas grass	3
<i>Philodendron</i> spp.	Philodendron	2
<i>Phlox</i> spp.	Phlox	3
<i>Phoenix dactylifera</i>	Date palm	2, 7
<i>Phoenix roebelenii</i>	Roebelin's palm	2, 7
<i>Photinia glabra</i>	Red-tip photinia	2, 3, 4
<i>Picea abies</i>	Norway spruce	1

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Picea glauca</i>	White spruce	1
<i>Picea pungens</i>	Blue spruce	1
<i>Pieris japonica</i>	Japanese andromeda	2, 7
<i>Pinus muhgo</i>	Muhgo pine	1b, 4
<i>Pinus nigra</i>	Black pine	1b, 4
<i>Pinus silvestris</i>	Scotch pine	1, 4
<i>Pinus</i> spp.	Pine	1b, 4
<i>Pinus strobus</i>	Eastern white pine	1b, 4
<i>Pittosporum</i> spp.	Australian laurel	3, 4
<i>Pittosporum tobira</i>	Mock-orange	3, 4
<i>Plectranthus</i> spp.	Swedish ivy, Coleus	2
<i>Populus</i> spp.	Aspen Trees	2j
<i>Potentilla</i> spp.	Cinquefoil	2
<i>Primula</i> spp.	Primrose	2
<i>Prunus pumila</i>	Cherry	2, 5
<i>Prunus</i> spp.	Flowering plum, Purple-leaf plum	2, 5
<i>Pseudotsuga</i> spp.	Douglas fir	1, 4
<i>Pyrus calleryana</i>	Bradford's pear	3
<i>Quercus falcata</i>	Red oak	2, 3
<i>Quercus palustris</i>	Pin oak	2, 3
<i>Rhaphiolepis indica</i>	Indian hawthorn	2, 3, 4
<i>Rhododendron</i> spp.	Azaleas, Rhododendron	2b, 3, 6, 7
<i>Rhododendron</i> spp.	Glacier Azalea	2b, 3, 6, 7
<i>Rosa</i> spp.	Rose	2a, 2e, 2m, 3c, 4b
<i>Rosmarinus</i> spp.	Rosemary (prostrate)	2
<i>Rudbeckia hirta</i>	Black-eyed-susan	2
<i>Salvia</i> spp.	Sage	3, 4
<i>Schlumbergera</i>	Holiday cactus	2,7
<i>Sedum</i> spp.	Orpine, Stonecrop	2
<i>Sempervivum</i> spp.	Live-forever, House-Leek	2
<i>Setaria</i> spp.	Ribbon-grass	2, 3
<i>Spathiphyllum floribundium</i>	Peace lily	2c, 2k, 7
<i>Spirea budalida</i>	Spirea	3
<i>Spirea japonica</i>	Spirea	3

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Syagrus romanzoffianum</i>	Queen palm	2
<i>Tagetes</i> spp.	Marigold	2a
<i>Taxus baccata</i>	Spreading yew	7
<i>Thuja</i> spp.	Arborvitae	2
<i>Thymus serpyllum</i>	Creeping thyme	2
<i>Tsuga</i> spp.	Hemlock	4
<i>Verbena</i> spp.	Verbena, Vervain	3
<i>Viburnum</i> spp.	Viburnum	2, 3, 4
<i>Vinca</i> spp.	Periwinkle	2, 6a
<i>Viola</i> spp. <sup>1</sup>	Viola, Pansy <sup>1</sup>	2
<i>Wiegela florida</i>	Pink wiegela	2
<i>Yucca</i> spp.	Yucca	7
<i>Zinnia</i> spp.	Zinnia	2a, 3

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



6/5/71

TABLE 3: Tolerant Plants Listed by Common Name:

COMMON NAME	BOTANICAL NAME
Abelia	<i>Abelia</i> spp.
Andromeda, Japanese	<i>Pieris japonica</i>
Arborvitae	<i>Thuja</i> spp.
Aspen Trees	<i>Populus</i> spp.
Aster	<i>Aster</i> spp.
Aucuba, Japanese	<i>Aucuba japonica</i>
Azalea, Glacier	<i>Rhododendron</i> spp.
Azaleas	<i>Rhododendron</i> spp.
Balsam	<i>Impatiens</i> spp.
Barberry	<i>Berberis thunbergii</i>
Begonia (except Rieger begonia)	<i>Begonia</i> spp.
Birch, River	<i>Betula nigra</i>
Black-Eyed-Susan	<i>Rudbeckia hirta</i>
Blanket-Flower	<i>Gaillardia</i> spp.
Bougainvillea	<i>Bougainvillea</i> spp.
Boxwood	<i>Buxus sempervirens</i>
Buddleia	<i>Buddleia davidii</i>
Bugle	<i>Ajuga reptans</i>
Bugleweed	<i>Ajuga reptans</i>
Burning Bush	<i>Euonymus alatus</i>
Butterfly Bush	<i>Buddleia davidii</i>
Cactus, Holiday	<i>Schlumbergera</i>
Caladium	<i>Caladium</i> spp.
Camellia	<i>Camellia japonica</i>
Carnation	<i>Dianthus caryophyllus</i>
Ceanothus	<i>Ceanothus</i> spp.
Cedar, Atlas	<i>Cedrus atlantica</i>
Cedar, Red	<i>Juniperus virginiana</i>
Cedar, White	<i>Cedrus</i> spp.
Cherry	<i>Prunus pumila</i>
Christmas Trees	See Fraser fir, Scotch pine and Douglas fir
Chrysanthemum	<i>Chrysanthemum</i> spp.

66/71

COMMON NAME	BOTANICAL NAME
Cinquefoil	<i>Potentilla</i> spp.
Clethra	<i>Clethra alnifolia</i>
Coleus	<i>Plectranthus</i> spp.
Cotoneaster, Creeping	<i>Cotoneaster adpressus</i>
Cotoneaster, Variegated Rockspray	<i>Cotoneaster horizontalis</i>
Crabapple (See Table 4 for variety list)	<i>Malus</i> spp.
Cranesbill	<i>Geranium</i> spp.
Crapemyrtle	<i>Lagerstroemia indica</i>
Cyclamen	<i>Cyclamen</i> spp.
Cyperus	<i>Cyperus</i> spp.
Cypress, Sawara	<i>Chamaecyparis pisifera</i>
Cypress, Leyland	<i>Chamaecyparis</i> spp.
Daisy, Gerber	<i>Gerbera jamesonii</i>
Daisy, Transvaal	<i>Gerbera jamesonii</i>
Dogwood	<i>Cornus</i> spp.
Dogwood	<i>Cornus florida</i>
Dogwood, Pink	<i>Cornus</i> spp.
Dumb-Cane	<i>Dieffenbachia</i> spp.
Euonymus, Dwarf Winged	<i>Euonymus alata</i>
Euonymus, Evergreen	<i>Euonymus japonicus</i>
Evergreen, Chinese	<i>Aglaonema</i> spp.
Fatsia, Japanese	<i>Fatsia japonica</i>
Fig	<i>Ficus</i> spp.
Fir, Douglas	<i>Pseudotsuga</i> spp.
Fir, Fraser	<i>Abies fraseri</i>
Floss-Flower	<i>Ageratum</i> spp.
Forsythia	<i>Forsythia viridissima</i>
Foxglove	<i>Digitalis</i> spp.
Gardenia	<i>Gardenia jasminoides</i>
Geranium	<i>Pelargonium</i> spp.
Grass	<i>Pennisetum alopecuroides</i>
Grass, Dwarf Pampas	<i>Phalaris</i> spp.
Grass, Pampas	<i>Cortaderia selloana</i>
Hawthorn, Indian	<i>Rhaphiolepis indica</i>
Heather	<i>Erica dareyensis</i>

67/71

COMMON NAME	BOTANICAL NAME
Hemlock	<i>Tsuga</i> spp.
Hibiscus	<i>Hibiscus moscheutos</i>
Hibiscus	<i>Hibiscus rosa-sinensis</i>
Holly	<i>Ilex</i> spp.
Hosta	<i>Hosta</i> spp.
House-Leek	<i>Sempervivum</i> spp.
Hydrangea	<i>Hydrangea</i> spp.
Hydrangea, French	<i>Hydrangea macrophylla</i>
Impatiens1	<i>Impatiens</i> spp. 1
Iris, African	<i>Dietes iridiodes</i>
Iris, Butterfly	<i>Dietes iridiodes</i>
Ivy, Algerian	<i>Hedera algeriensis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Swedish	<i>Plectranthus</i> spp.
Juniper	<i>Juniperus procumbens</i>
Juniper	<i>Juniperus scopulorum</i>
Juniper	<i>Juniperus</i> spp.
Larkspur	<i>Delphinium</i> spp.
Laurel	<i>Laurus nobilis</i>
Laurel, Australian	<i>Pittosporum</i> spp.
Laurel, Japanese	<i>Aucuba japonica</i>
Lilac, California	<i>Ceanothus</i> spp.
Lilac, Wild	<i>Ceanothus sanguineus</i>
Lily, Peace	<i>Spathiphyllum floribundium</i>
Lily-Turf	<i>Liriope muscari</i>
Live-Forever	<i>Sempervivum</i> spp.
Magnolia	<i>Magnolia</i> spp.
Magnolia, Saucer	<i>Magnolia soulangiana</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Maple, Japanese	<i>Acer palmatum</i>
Maple, Sugar	<i>Acer saccharum</i>
Marigold	<i>Tagetes</i> spp.
Mock-Orange	<i>Pittosporum tobira</i>
Mugwort	<i>Artemisia</i> spp.
Nandina	<i>Nandina domestica</i>

COMMON NAME	BOTANICAL NAME
Oak, Pin	<i>Quercus palustris</i>
Oak, Red	<i>Quercus falcata</i>
Oleander	<i>Nerium oleander</i>
Orpine	<i>Sedum spp.</i>
Palm, Date	<i>Phoenix dactylifera</i>
Palm, Parlor	<i>Chamaedora elegans</i>
Palm, Queen	<i>Syagrus romanzoffianum</i>
Palm, Roebelin's	<i>Phoenix roebelenii</i>
Palm, Sago	<i>Caryota urens</i>
Pansy <sup>1</sup>	<i>Viola spp. 1</i>
Paper-Plant	<i>Fatsia japonica</i>
Pear, Bradford's	<i>Pyrus calleryana</i>
Periwinkle	<i>Vinca spp.</i>
Petunia	<i>Petunia spp.</i>
Philodendron	<i>Philodendron spp.</i>
Phlox	<i>Phlox spp.</i>
Photinia, Red-Tip	<i>Photinia glabra</i>
Pine	<i>Pinus spp.</i>
Pine, Black	<i>Pinus nigra</i>
Pine, Eastern White	<i>Pinus strobus</i>
Pine, Muhgo	<i>Pinus muhgo</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pink	<i>Dianthus spp.</i>
Plum, Flowering	<i>Prunus spp.</i>
Plum, Purple-Leaf	<i>Prunus spp.</i>
Poinsettia	<i>Euphorbia spp.</i>
Pothos	<i>Epipremnum spp.</i>
Primrose	<i>Primula spp.</i>
Pussy's-Foot	<i>Ageratum spp.</i>
Redbud, Western	<i>Cercis occidentalis</i>
Rhododendron	<i>Rhododendron spp.</i>
Ribbon-Grass	<i>Setaria spp.</i>
Rose of Sharon	<i>Hibiscus syriacus</i>
Rose	<i>Rosa spp.</i>
Rose-Bay	<i>Nerium oleander</i>

69/71

COMMON NAME	BOTANICAL NAME
Rosemary (Prostrate)	<i>Rosmarinus</i> spp.
Rubber-Plant, Baby	<i>Peperomia</i> spp.
Rubber-Tree	<i>Brassaia actinophylla</i>
Sage	<i>Salvia</i> spp.
Sagebrush	<i>Artemisia</i> spp.
Snap-Dragon	<i>Antirrhinum</i> spp.
Snowball	<i>Ceanothus</i> spp.
Spirea	<i>Spirea budalda</i>
Spirea	<i>Spirea japonica</i>
Spruce, Blue	<i>Picea pungens</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, White	<i>Picea glauca</i>
Starwort	<i>Aster</i> spp.
Stonecrop	<i>Sedum</i> spp.
Sweet Alyssum	<i>Lobularia maritima</i>
Thyme, Creeping	<i>Thymus serpyllum</i>
Umbrella-Tree	<i>Brassaia actinophylla</i>
Verbena	<i>Verbena</i> spp.
Vervain	<i>Verbena</i> spp.
Viburnum	<i>Viburnum</i> spp.
Vinca	<i>Catharanthus roseus</i>
Viola	<i>Viola</i> spp.
White alder	<i>Clethra</i> spp.
Wiegela, Pink	<i>Wiegela florida</i>
Willow, Virginia	<i>Itea virginica</i>
Winterberry	<i>Ilex</i> spp.
Wormwood	<i>Artemisia</i> spp.
Yaupon	<i>Ilex</i> spp.
Yew, Spreading	<i>Taxus baccata</i>
Yucca	<i>Yucca</i> spp.
Zebra-Plant	<i>Aphelandra</i> spp.
Zinnia	<i>Zinnia</i> spp.

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

7/11

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

Arkansas Black	Eleyi	Mary Potter	<i>seiboldii</i>
<i>atrosanguinea</i>	Enterprise	Molten Lava	Selkirk
<i>baccata</i>	Evereste	New Centennial	Sentinel
<i>baccata</i> var. <i>jackii</i>	Eyelynn	Ormiston Roy	Silver Moon
<i>baccata</i> var. <i>mandshurica</i>	<i>floribunda</i>	Pink Satin	Silverdrift
Callaway	Gloriosa	Prairie Maid	Sinai Fire
Candymint Sargent	Golden Delicious	Prairifire	<i>spectabilis</i>
Christmas Holly	Golden Raindrops	Profusion	Sugar Tyme
<i>coronaria</i>	Hopa	<i>pumila</i>	Van Eseltine
David	Indian Magic	Ralph Shay	White Angel
Dolgo	Island	Red Jade	Williams Pride
Donald Wyman	Katherine	Red Baron	Winter Gold
Dorothea	Lancelot	Sargent	Yellow Delicious
Doubloons	Louisa	<i>sargentii</i>	<i>zumi</i> Calocarpa

**TABEL 5**  
**Intolerant Plants**  
**(Do not apply HERITAGE to these species or varieties)**

COMMON NAME	BOTANICAL NAME
Apple	<i>Malus domestica</i>
Crabapple - Flame variety	<i>Malus</i> spp.
Crabapple - Brandywine variety	<i>Malus</i> spp.
Crabapple - Novamac variety	<i>Malus</i> spp.
Cherry, Flowering - Yoshina variety	<i>Prunus yedoensis</i> .
Leatherleaf Fern	<i>Rumohra adianformis</i> and other species

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71/71

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