

49538-3

05-11-2011

1/29



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number: 49538-3

Date of Issuance: MAY 1 1 2011

NOTICE OF PESTICIDE:
XX Registration
XX Reregistration
(under FIFRA, as amended)

Terms of Issuance: Unconditional
Name of Pesticide Product: Phyton 27 New Dimension

Name and Address of Registrant (include ZIP Code):
Phyton Corporation
7440 West 78th Street
Bloomington, MN 55439

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

EPA received a label amendment request submitted by email on 3/30/2011. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for Copper Sulfate Pentahydrate have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

Continued on Page 2

Signature of Approving Official:
Tony Kish
Product Manager (Team 22)
Fungicide Branch
Registration Division

Date: MAY 1 1 2011

Page 2  
Notice of Reregistration (continued)  
EPA Reg. No. 49538-3

MAY 11 2011

If you have any questions or comments regarding this letter, please contact Robert Westin at (703) 305-5721 or via e-mail at [westin.robert@epa.gov](mailto:westin.robert@epa.gov).

Enclosure:

- Label stamped "Accepted"
- PRB Label Review dated 3/5/2010
- Acute Toxicity Review DP372917 dated 1/13/2010
- Acute Toxicity Review DP362342 dated 3/6/2009
- Product Chemistry Review DP371490 dated 1/17/2010
- Product Chemistry Review DP362343 dated 7/23/2009

# Phyton<sup>®</sup> 27 NEW DIMENSION

**ACCEPTED**  
  
MAY 1 1 2011  
  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 49538-3

**MITICIDE & INSECTICIDE & NEMATICIDE  
BACTERICIDE & FUNGICIDE**

ACTIVE INGREDIENT	
Copper Sulphate Pentahydrate*.....	3.98%
INERT INGREDIENTS.....	96.02%
	100.00%
*Copper as Metallic.....1.0%	

Contains 0.34 lbs. Active Ingredient per gallon

<p>KEEP OUT OF REACH OF CHILDREN <b>DANGER</b>                    <b>PELIGRO</b> Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail.)</p>
---

U.S. PAT. NOS. 4,673,687 and 6,646,000 B1  
E.P.A. REG. NO. 49538-3  
E.P.A. EST. NO. 49538-MN-001

Phyton Corporation  
7440 West 78th St  
Bloomington, MN 55439 800-356-8733  
www.phytoncorp.com

```

      C C C C
      C C C C
      C   C
      C C C C
      C
      C   C   C   C   C
      C C C C   C C C C
      C C C C   C C C C
      C C C C   C C C C
      C
      C   C   C   C
      C C C C
      C C C C
      C C C C
  
```

<b>FIRST AID</b>	
<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>
<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 Swallowed:</b>	<ul style="list-style-type: none"><li>- Call a poison control center or doctor immediately for treatment advice.</li><li>- Have person sip a glass of water if able and swallow.</li><li>- Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>- Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF Inhaled:</b>	<ul style="list-style-type: none"><li>- Move person to fresh air.</li><li>- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth if possible.</li><li>- Call a poison control center or doctor for further 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>Note to Physician:</b>	Skin symptoms may be similar to copper allergic reactions and can be treated similarly, including the use of steroid-containing lotion. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage.
See side panel for additional precautionary statements.	

**NOTICE:**

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice, including but not limited to over-fertilization or senescing plant tissue. Crop injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, presence of other materials, the manner of application, or other factors, all of which are beyond the control of the manufacturer. All such risks shall be assumed by the buyer. To the extent consistent with applicable law, the exclusive remedy is the product purchase price. Phyton-27® New Dimension is reported compatible with many registered pesticides. However, before adopting the use of additives and/or combinations for general applications, test for physical compatibility and noninjury under your conditions of use. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other materials as tank mix or applied separately.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS (& DOMESTIC ANIMALS)**

DANGER. Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing.

**Personal Protective Equipment (PPE)**  
Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.  
Mixers, loaders, applicators and other handlers must wear:  
Coveralls over short-sleeved shirt and short pants,  
Chemical-resistant footwear plus socks,  
Chemical-resistant gloves,  
Goggles or faceshield.  
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**PHYSICAL OR CHEMICAL HAZARDS**

Phyton-27® New Dimension is potentially explosive if exposed to extreme heat. Do not store Phyton-27® New Dimension near heat or flame. For spills, you may contact CHEMTREC at 1-800-424-9300.

**USER SAFETY RECOMMENDATIONS**

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

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not use around electrical equipment. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**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) and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

This product has a restricted entry interval (REI) of 48 hours unless the following conditions are met.

If these conditions are met, the restricted entry interval (REI) for greenhouse uses is 24 hours.

For at least seven days following the application of copper sulfate pentahydrate:

- at least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated with copper sulfate pentahydrate, and
- workers are informed orally, in a manner they can understand:
  - that residues in the treated area may be highly irritating to their eyes,
  - that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
  - that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container or eyeflush station that is located with the decontamination supplies, and
  - how to operate the eyeflush container or eyeflush station

Do not allow workers to enter into treated areas during the restricted entry interval (REI).

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, wear:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses 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.

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

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**— Do not freeze or store below 45° F. Store in original container. Do not store Phyton-27® New Dimension near heat or flame.

**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 at the nearest EPA regional office for guidance. Open dumping is prohibited.

**CONTAINER DISPOSAL**—Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**GENERAL**—Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

**GENERAL DIRECTIONS**

1. Shake well before mixing with water. Use within 48 hours after mixing.
2. Adjust pH of solution to 5.5 - 6.5.
3. Phyton-27® New Dimension can be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial, and low volume sprayers and chemigation equipment specified on this label. The volume of water needed will depend on the spray equipment and the size of the crop. Use in sufficient water to provide thorough coverage.
4. Low volume applications require conversion of ounces/volume to ounces/area.
5. Phyton-27® New Dimension can be used up to the time of harvest.
6. Metal piping or equipment used for application should be brass or stainless steel. Do not use Phyton-27® New Dimension with equipment containing aluminum parts.
7. Compatible with most fungal and insecticidal biopesticides when applied at least 2 days before or after application of the biopesticide.
8. Do not tank mix Phyton-27® New Dimension with B-NINE and do not apply Phyton-27® New Dimension within seven (7) days either before or after applications of B-NINE, as burning of leaves may result.
9. Do not tank mix Phyton-27® New Dimension with strongly acidic compounds such as Aliette, and do not apply Phyton-27® New Dimension within 14 days either before or after applications of such products.
10. Phytotoxicity: Phyton-27® New Dimension has been tested on a wide variety of herbaceous and woody ornamental plants without phytotoxicity symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars and because environmental factors and varietal stage of growth may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated dosage rate and observed for 5 to 7 days to determine phytotoxicity before treating large numbers of those plants.
11. Liquid equivalents: one fluid ounce = 29.5 milliliters = 6 teaspoons.
12. Apply 100 gallons of Phyton-27® New Dimension use solution per acre of affected area to be treated.

**USE DIRECTIONS for Spray Applications in Greenhouse, Field, Landscape and Interior:  
Annual & Perennial Bedding Plants, Potted Flowering Crops, Tropical Foliage, Cut Flower  
Crops & Nursery Crops**

Spray for thorough foliage coverage. Re-spray rates and intervals vary with severity of disease and adversity of environmental conditions. In the event of heavy disease pressure, intervals can be shortened to 7 days. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Rates above 8.0 fl. oz. Phyton-27® New Dimension per 10 gallons water may damage some tender, open blooms. Rates up to 37.5 fl. oz. Phyton-27® New Dimension per 10 gallons water can be used for powdery mildew on roses if no blooms are open. Use of low volume equipment is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections. Applications on actively growing tissue may be more effective than applications on dormant tissue.

**For Easter Lillies:** the maximum application rate is 2.5 lb. metallic copper per acre per application. The maximum annual application rate is 75 lbs metallic copper per acre per year. The minimum retreatment interval is 7 days. Do not apply any additional copper pesticide to this land for 36 months.

**For All Other Ornamentals,** The maximum application rate is 2.0 lb metallic copper per acre per application. The maximum annual application rate is 20 lbs metallic copper per acre per year. The minimum retreatment interval is 7 days.



<b>Annual &amp; Perennial Bedding Plants</b> such as but not limited to: Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water		
<b>CROP</b>	<b>PATHOGEN</b>	<b>RATE</b>
Alyssum	Botrytis	5.5 - 10.5
	Downy Mildew	5.5 - 10.5
Argyranthemum	Botrytis	7.0 - 11.0
	Erwinia	7.0 - 11.0
Begonia	Botrytis	7.0 - 11.0
	Powdery Mildew	8.0 - 16.0
	Xanthomonas	8.0 - 16.0
Chrysanthemum	Botrytis	8.0 - 13.5
	Pseudomonas	8.0 - 13.5
Daylily	Botrytis	7.0 - 11.0
	Erwinia	8.0 - 13.5
	Powdery Mildew	8.0 - 13.5
Dusty Miller	Alternaria	8.0 - 13.5
	Botrytis	7.0 - 11.0
Fuchsia	Botrytis	7.0 - 11.0
	Powdery Mildew	7.0 - 13.5
Geranium	Botrytis	8.0 - 11.0
	Rust (preventive)	8.0 - 11.0
	Rust (therapeutic)	13.5 - 21.5
	Pseudomonas (preventive)	8.0 - 24.0
	Pseudomonas (therapeutic)	27
	Xanthomonas (preventive)	8.0 - 24.0
	Xanthomonas (therapeutic)	27
Hollyhock	Botrytis	7.0 - 11.0
	Powdery Mildew	8.0 - 13.5
	Rust	8.0 - 13.5
Hosta	Botrytis	8.0 - 11.0
	Erwinia	8.0 - 16.0
Impatiens	Alternaria	8.0 - 19.0
	Botrytis	7.0 - 8.0
	Powdery Mildew	7.0 - 13.5
	Pseudomonas	8.0 - 19.0
New Guinea Impatiens	Botrytis	7.0 - 8.0
	Powdery Mildew	7.0 - 11.0
Pachysandra	Botrytis	7.0 - 11.0
	Volutella	7.0 - 13.5
Pansy	Botrytis	7.0 - 11.0
	Cercospora	8.0 - 11.0
	Phytophthora	7.0 - 11.0

Periwinkle	Botrytis	7.0 - 11.0		
	Phytophthora	8.0 - 11.0		
Ranunculus	Bacterial Blight	7.0 - 11.0		
	Botrytis	7.0 - 11.0		
	Powdery Mildew	8.0 - 13.5		
Snapdragon	Botrytis	7.0 - 11.0		
	Downy Mildew	7.0 - 13.5		
	Rust	7.0 - 13.5		
Zinnia	Botrytis	7.0 - 11.0		
	Powdery Mildew	7.0 - 13.5		
	Pseudomonas	7.0 - 13.5		
	Xanthomonas	7.0 - 13.5		
Additional Annuals and Perennials:	Botrytis	7.0 - 11.0		
	Downy Mildew	8.0 - 16.0		
	Powdery Mildew	8.0 - 13.5		
	Pseudomonas	8.0 - 13.5		
Anenome	Aster	Bacopa	Baptisia	Carnation
Coleus	Columbine	Coneflower	Coreopsis	Cuphea
Dahlia	Daisy	Dianthus	Delphinium	Echinacea
Ipomoea	Lantana	Lead Plant	Liatris	Lobelia
Lupine	Marigold	Monarda	Ornamental Grasses	Pentas
Petunia	Phlox	Poppy	Prairie Smoke	Primrose
Pulmonaria	Rudbeckia	Salvia	Scabiosa	Sedum
Silphium	Verbena	Veronica	Vinca	Viola

**Tropical Foliage Crops** such as but not limited to:

Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

CROP	PATHOGEN	RATE
Dracaena	Rust	8.0 - 13.5
Ferns	Botrytis	7.0 - 11.0
	Erwinia	7.0 - 11.0
Hibiscus	Botrytis	7.0 - 13.5
	Pseudomonas	8.0 - 13.5
	Xanthomonas	8.0 - 13.5
Ivy	Botrytis	7.0 - 11.0
	Xanthomonas	8.0 - 27.0
Palms	Botrytis	7.0 - 11.0
	Erwinia	7.0 - 11.0
	Pseudomonas	7.0 - 13.5
	Xanthomonas	7.0 - 13.5
Spathiphyllum	Botrytis	7.0 - 13.5
	Cylindrocladium	8.0 - 13.5
	Phytophthora	8.0 - 16.0
Tropical Foliage	Botrytis	7.0 - 13.5
	(general) Powdery Mildew	7.0 - 13.5
	Erwinia	11.0 - 27.0
	Pseudomonas	11.0 - 27.0
	Xanthomonas	11.0 - 27.0

<b>Potted Flowering Crops</b> such as but not limited to: Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water		
<b>CROP</b>	<b>PATHOGEN</b>	<b>RATE</b>
African Violet	Botrytis	7.0 - 8.0
	Powdery Mildew	7.0 - 8.0
Azalea	Botrytis	7.0 - 13.5
	Colletotrichum	8.0 - 13.5
	Cylindrocladium	8.0 - 19.0
Calla lily	Botrytis	7.0 - 11.0
	Erwinia	7.0 - 11.0
Chrysanthemum	Botrytis	8.0 - 13.5
	Crown Gall	8.0 - 13.5
	Erwinia	8.0 - 13.5
	Powdery Mildew	8.0 - 13.5
Cineraria	Botrytis	7.0 - 11.0
Cyclamen	Botrytis	8.0 - 11.0
	Erwinia	8.0 - 11.0
Daffodil	Botrytis	7.0 - 11.0
Easter lily	Botrytis	7.0 - 11.0
Exacum	Botrytis	7.0 - 11.0
Gerbera	Botrytis	8.0 - 13.5
	Powdery Mildew	8.0 - 13.5
Gloxinia	Botrytis	7.0 - 11.0
Holiday Cactus	Botrytis	7.0 - 13.5
	Erwinia	8.0 - 27.0
	Pseudomonas	8.0 - 27.0
	Xanthomonas	8.0 - 27.0
Hyacinth	Botrytis	7.0 - 11.0
Hydrangea	Botrytis	7.0 - 13.5
	Powdery Mildew	7.0 - 13.5
Iris	Botrytis	7.0 - 11.0
	Erwinia	8.0 - 11.0
Kalanchoe	Botrytis	8.0 - 13.5
	Erwinia	8.0 - 19.0
	Powdery Mildew	8.0 - 19.0
Lisianthus	Botrytis	7.0 - 11.0
Orchid	Botrytis	7.0 - 8.0
	Erwinia	8.0 - 21.5
	Pseudomonas	8.0 - 21.5
	Xanthomonas	8.0 - 21.5
Poinsettia	Botrytis	8.0 - 11.0
	Scab	11.0 - 19.0

	Powdery Mildew (preventive)	8.0 - 11.0
	Powdery Mildew (therapeutic)	11.0 - 19.0
	Erwinia (preventive)	8.0 - 11.0
	Erwinia (therapeutic)	11.0 - 19.0
	Xanthomonas (preventive)	8.0 - 11.0
	Xanthomonas (therapeutic)	11.0 - 19.0
Primula	Botrytis	7.0 - 11.0
	Erwinia	8.0 - 11.0
Rose bush	Black Spot (preventive)	8.0 - 16.0
	Black spot (therapeutic)	19.0 - 27.0
	Botrytis (preventive)	8.0 - 11.0
	Botrytis (therapeutic)	13.5 - 27.0
	Cylindrocladium (preventive)	8.0 - 11.0
	Cylindrocladium (therapeutic)	13.5 - 27.0
	Downy Mildew (preventive)	8.0 - 11.0
	Downy Mildew (therapeutic)	13.5 - 27.0
	Powdery Mildew (preventive)	8.0 - 16.0
	Powdery Mildew (therapeutic)	19.0 - 27.0
Tulip	Botrytis	7.0 - 11.0

**For Easter Lilies:** The maximum application rate is 2.5 lb metallic copper per acre per application. The maximum annual application rate is 75 lbs metallic copper per acre per year. The minimum retreatment interval is 7 days. Do not apply any additional copper pesticide to this land for 36 months.

**Cut Flower Crops** such as but not limited to:

Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

CROP	PATHOGEN	RATE
Alstromeria	Botrytis	7.0 - 8.0
Carnation	Botrytis	7.0 - 11.0
Chrysanthemum	Botrytis	8.0 - 13.5
Delphinium	Botrytis	7.0 - 8.0
Freesia	Botrytis	7.0 - 8.0
Gerbera	Botrytis	8.0 - 13.5
Gladiola	Botrytis	7.0 - 8.0
Lisianthus	Botrytis	7.0 - 11.0
Orchid	Botrytis	7.0 - 8.0
Rose	Botrytis	8.0 - 27.0
Snapdragon	Botrytis	7.0 - 11.0
Sweetpea	Botrytis	7.0 - 8.0

**SPECIFIC DIRECTIONS for Post-Harvest Dip Applications on Cut Flower Crops**

Dip cut flowers/buds for a few seconds soon after cutting.

Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

CROP	PATHOGEN	RATE
Alstromeria	Botrytis	1.5 - 2.0

Carnation	Botrytis	3.5 - 5.5
Chrysanthemum	Botrytis	3.5 - 5.5
Delphinium	Botrytis	2.0 - 3.5
Freesia	Botrytis	1.5 - 2.0
Gerbera	Botrytis	3.5 - 5.5
Gladiola	Botrytis	2.5 - 5.5
Orchid	Botrytis	3.5 - 5.5
Rose	Botrytis	5.5 - 6.5
Snapdragon	Botrytis	2.0 - 3.5
Sweetpea	Botrytis	2.0 - 3.5

**SPECIFIC DIRECTIONS for Post-Harvest Dip Applications on Cut Flower Crops**

Dip cut flowers/buds for a few seconds soon after cutting.

Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

<b>CROP</b>	<b>PATHOGEN</b>	<b>RATE</b>
Azalea	Anthraco-nose	8.0 - 13.5
	Botrytis	7.0 - 13.5
	Cylindrocladium	8.0 - 19.0
	Phytophthora	11.0 - 13.5
Buxus	Volutella	8.0 - 13.5
Cherry Laurel	Xanthomonas	11.0 - 19.0
Conifers	Botrytis	7.0 - 13.5
	Diplodia	5.5 - 7.0
Crape Myrtle	Botrytis	7.0 - 13.5
	Powdery Mildew	11.0 - 16.0
Dogwood	Anthraco-nose	11.0 - 16.0
	Botrytis	7.0 - 13.5
	Powdery Mildew	11.0 - 16.0
Elm	Erwinia	11.0 - 21.5
Euonymus	Anthraco-nose	8.0 - 16.0
	Botrytis	7.0 - 13.5
Hawthorn	Cedar Apple Rust	8.0 - 13.5
Hydrangea	Botrytis	7.0 - 13.5
	Cercospora	8.0 - 13.5
	Powdery Mildew	7.0 - 13.5
Indian Hawthorn	Botrytis	7.0 - 13.5
	Entomosporium	8.0 - 16.0
Japanese Maple	Botrytis	7.0 - 13.5
	Verticillium	8.0 - 13.5
	Pseudomonas	8.0 - 13.5
Juniper	Phomopsis	7.0 - 13.5
Leyland Cypress	Cercospora	7.0 - 13.5
Lilac	Botrytis	7.0 - 13.5
	Pseudomonas	7.0 - 13.5
	Powdery Mildew	8.0 - 13.5
Nandina	Xanthomonas	8.0 - 13.5
Oak	Anthraco-nose	19
	Botrytis	7.0 - 13.5
Oak Trunk Spray	Phytophthora	16.0 - 24.0
Photinia	Entomosporium	8.0 - 16.0
Pinus	Dothistroma	8.0 - 13.5
Rosaceae such as: Cotoneaster, Malus, Mountain Ash, Ornamental	Apple Scab	21.5
	Botrytis	7.0 - 13.5

Crabapple, Ornamental Pear, Pyracantha	Fireblight	11.0 - 21.5
	Pseudomonas	8.0 - 19.0
Rhododendron	Botrytis	7.0 - 13.5
	Cylindrocladium	8.0 - 19.0
	Phytophthora	11.0 - 19.0
Rose	<i>See Flowering Potted Crops for Rates</i>	
Ruscus	Pseudomonas	7.0 - 13.5
Sycamore	Anthraco nose	19
	Botrytis	7.0 - 13.5
Viburnum	Botrytis	7.0 - 13.5
	Cercospora	8.0 - 13.5
	Phytophthora	11.0 - 13.5
Additional Nursery Crops such as:	Botrytis	7.0 - 13.5
	Powdery Mildew	11.0 - 13.5
	Pseudomonas	8.0 - 19.0
	Rhizoctonia	7.0 - 13.5

Shrubs/Vines

Barberry	Bougainvillea	Clematis	Cornus	Cotinus
Forsythia	Gardenia	Holly	Paeonia	Philadelphus
Physocarpus	Potentilla	Ribes	Rosa	Spirea
Weigela	Wisteria			

Deciduous

Acer	Amelanchier	Betula	Celtis	Cercis
Crataegus	Ficus	Fraxinus	Ginkgo	Gleditsia
Magnolia	Malus	Populus	Prunus	Pyrus

Tilia

Conifers

Abies	Juniper	Picea	Pinus	Pittosporum
Pseudotsuga	Taxus	Thuja	Tsuga	

Non-Bearing Fruit Trees and Vines

(Do not apply to trees that will bear fruit within one year)

Apple	Pear	Grape	Citrus
-------	------	-------	--------

**SPECIFIC DIRECTIONS for Bulb Applications**

Dip bulbs for 5 minutes, or spray bulbs to drip, then allow to dry before planting. Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

CROP	PATHOGEN	RATE
Calla Lily	Erwinia	16

16  
29

**SPECIFIC DIRECTIONS for Spray and Dip Applications during Propagation** When harvesting cuttings on site, spray or fog stock plants 1 to 2 days prior to taking cuttings. Spray cuttings to drench again at same rate 2 to 3 days after sticking in rooting media, or dip cuttings for a few seconds prior to sticking. When using rooted, callused, or unrooted cuttings shipped in, spray cuttings to drench 2 to 3 days after planting or sticking, or dip cuttings for a few seconds prior to sticking. Under severe disease pressure, repeat in 7 to 10 days.

**Herbaceous & Woody Stock Plants and Cuttings** such as but not limited to: Dosages in fluid ounces Phyton-27® New Dimension per 10 gallons water

CROP	PATHOGEN	RATE
Azalea	Botrytis	7.0 - 13.5
	Cylindrocladium	8.0 - 19.0
Chrysanthemum	Botrytis	8.0 - 13.5
	Erwinia	8.0 - 13.5
Geranium	Botrytis	8.0 - 11.0
	Xanthomonas	8.0 - 27.0
Holiday Cactus	Botrytis	7.0 - 13.5
	Erwinia	8.0 - 11.0
Hydrangea	Botrytis	7.0 - 13.5
	Xanthomonas	8.0 - 13.5
Lavender	Botrytis	7.0 - 11.0
Mini-Rose	Botrytis	8.0 - 11.0
	Cylindrocladium	8.0 - 27.0
Poinsettia	Botrytis	8.0 - 11.0
	Erwinia	11.0 - 19.0
	Scab	11.0 - 19.0
	Xanthomonas	11.0 - 19.0
Tropical Foliage	Botrytis	7.0 - 13.5
	Cylindrocladium	8.0 - 13.5
	Erwinia	11.0 - 27.0

**SPECIFIC DIRECTIONS: NEMATICIDE** Greenhouse, Field, Landscape and Interior  
 Dosages in fluid ounces of Phyton-27 New Dimension per 10 gallons water

	Foliar Nematodes
All hosts on this label	17

This dosage rate may damage open blooms. Where fungicide, bactericide dosage rate for host is lower, this higher rate may result in plant damage. Spray for thorough coverage. Make 3 applications at 2-week intervals.



17  
29

<b>Soil Drench Applications - Greenhouse, Field, Landscape &amp; Interior</b>		
Dosage in fluid ounces of Phyton-27® New Dimension per 10 gallons water		
<b>CROP</b>	<b>PATHOGEN</b>	<b>RATE</b>
African Violet	Phytophthora	7.0 - 11.0
Aster	Phytophthora	11.0 - 16.0
Azalea	Cylindrocladium	11.0 - 19.0
	Rhizoctonia	11.0 - 19.0
Calla Lily	Erwinia	8.0 - 16.0
Cyclamen	Erwinia	8
Ferns	Rhizoctonia	8.0 - 16.0
Geranium	Botrytis	11.0 - 19.0
Hosta	Erwinia	8.0 - 13.5
Impatiens	Phytophthora	11.0 - 19.0
Japanese Maple	Verticillium	13.5
Pansy	Phytophthora	8.0 - 13.5
	Pythium	8.0 - 13.5
Periwinkle	Phytophthora	8.0 - 11.0
Pittosporum	Rhizoctonia	8.0 - 11.0
Poinsettia	Phytophthora	8.0 - 13.5
	Rhizoctonia	11.0 - 19.0
Rhododendron	Rhizoctonia	11.0 - 19.0
Rose	Black Spot	11.0 - 19.0
	Cylindrocladium	11.0 - 19.0
Spathiphyllum	Cylindrocladium	11.0 - 19.0
	Phytophthora	11.0 - 19.0
Vinca minor	Rhizoctonia	8.0 - 13.5
Do not apply more than 20 pounds of copper as metallic per acre per application (equivalent to 1.46 quarts per square foot at a dilution rate of 19.0 fluid ounces per 10 gallons of water)		

<b>SPECIFIC DIRECTIONS: MITICIDE, INSECTICIDE</b>		
<b>Greenhouse, Field, Landscape and Interior</b>		
Dosages in fluid ounces of Phyton-27 New Dimension per 10 gallons water		
	Two-spotted Spider Mite	White Fly Adults
All hosts on this label	13.5	13.5
This dosage rate may damage open blooms. Where fungicide, bactericide dosage rate for host is lower, this higher rate may result in plant damage. Lower rates may be effective.		

**SPECIFIC DIRECTIONS for Injection Applications: Shade & Ornamental Trees** ELM, Trunk injection, Dutch elm disease and Cankers (*Botryodiplodia Cytospora Tubercularia*). Inject once during the growing season for control or prevention. Injection sites should be six inches or less above the soil line. Injection should not be done against Dutch elm disease if the elm appears more than 20% diseased or if the disease may have entered through root grafts from another diseased tree or stump. Remove dead and diseased limbs within 10 days after treatment.

Dosage by elm size (diameter at breast ht.)	New Dimension fl. oz.	Water gallons
12 to 19 inches dbh	11	2
20 to 26 inches dbh	16	3
27 to 33 inches dbh	21.5	4
34 to 40 inches dbh	27	5
41 to 48 inches dbh	32	6

Use the red oak dosage for red (slippery) elm.

**OAKS, Oak Wilt and Phytophthora.** Trunk injection. On red oak, use preventively only. Follow injection directions for elm, taking care that holes are not too deep on shallow-barked oaks. Treatment is best in the month before fall color in northern climates.

Dosage by tree variety and size	Phyton-27® New Dimension fl. oz.		Water
	Red Oaks/Red Elm	Oaks	
12 to 19 inches dbh	5.5	8.0	3 gallons
20 to 26 inches dbh	8.0	11.0	4.5 gallons
27 to 33 inches dbh	11.0	16.0	6 gallons
34 to 40 inches dbh	13.5	19.0	7.5 gallons
41 to 48 inches dbh	16.0	24.0	9 gallons

**OAKS and SYCAMORE, Anthracnose.** Trunk injection. Follow injection directions for elm, taking care that holes are not too deep on shallow barked oaks.

Dosage by tree variety and size	Phyton-27® New Dimension fl. oz.			Water
	Red Oaks/Red Elm	White Oak	Sycamore	
12 to 19 inches dbh	5.5	8.0	8.0	3 gallons
20 to 26 inches dbh	8.0	11.0	11.0	4.5 gallons
27 to 33 inches dbh	11.0	16.0	16.0	6 gallons
34 to 40 inches dbh	13.5	19.0	19.0	7.5 gallons
41 to 48 inches dbh	16.0	24.0	24.0	9 gallons

**SHADE TREE CANKERS.** *Cytospora* on GREEN ASH, PAPER BIRCH, COTTONWOOD; *Botryodiplodia* and *Cytospora* on HACKBERRY, SILVER MAPLE; *Nectria* on HONEY LOCUST. Trunk injection. Follow injection directions for elm.

Dosage by tree size	Phyton-27® New Dimension fl. oz.	Water
10 inches dbh	7	1 gallon
20 inches dbh	13.5	2 gallons

### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and the method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

**Droplet Size:** Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

**Temperature Inversions:** If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**Other State and Local Requirements:** Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

**Equipment:** All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

**For aerial application:** The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

**For groundboom application:** Do not apply with a nozzle height greater than 4 feet above the crop canopy.

**USE DIRECTIONS FOR CHEMIGATION**

The following precautions must be observed when using this product in any type of irrigation system:

Apply this product only through overhead sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, big gun, solid set, or hand move; drip (trickle); or flood (basin) irrigation system(s).

Do not apply this product through any other type of irrigation equipment.

Metal piping or equipment used for application should be brass or stainless steel.

Do not use Phyton-27® New Dimension with equipment containing aluminum parts.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

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

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

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Agitation in the pesticide supply tank is recommended once every 2 hours and may be more frequent or continuous.

The dosage rate should not be diluted by additional water applied as irrigation. Apply the prescribed rate and allow foliar surfaces to dry before irrigating. If irrigation precedes Phyton-27® New Dimension application, allow foliage to drip off before beginning the application.

To optimize dilution of the pesticide in the supply tank, first add Phyton-27® New Dimension to a small amount of water, room temperature or warmer, and mix gently until evenly dispersed.

**REQUIREMENTS FOR SPRINKLER & DRIP CHEMIGATION**

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

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.

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

**SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS**

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.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow 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.

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 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, or in cases where there is no water pump, 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.

**POSTING**

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, inpatient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corner of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period. All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop symbol at least 8 inches in diameter containing the word STOP.

Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

**REQUIREMENTS FOR FLOOD CHEMIGATION**

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

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.

NOTE - The following language is required for the Domestic/Homeowner version of the label:

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS (& DOMESTIC ANIMALS)**  
DANGER. Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wear coveralls over short-sleeved shirt and short pants, chemical-resistant footwear plus socks, chemical-resistant gloves made of any waterproof material, and goggles or faceshield. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Food utensils such as teaspoons or tablespoons should not be used for food purposes after use with pesticides.

**PHYSICAL OR CHEMICAL HAZARDS**  
Phyton-27® New Dimension is potentially explosive if exposed to extreme heat. Do not store Phyton-27® New Dimension near heat or flame. For spills, you may contact CHEMTREC at 1-800-424-9300.

**DIRECTIONS FOR USE**  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift.

**ENVIRONMENTAL HAZARDS**  
This pesticide is toxic to fish and aquatic invertebrates and contaminate water through runoff. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

**STORAGE AND DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal.  
PESTICIDE STORAGE— Store in a secure, locked area away from pets and out of the reach of children. Store only in original container and place in a locked storage area. Keep away from excessive heat or flame. Do not freeze or store below 45° F. Open dumping is prohibited.  
CONTAINER DISPOSAL - IF EMPTY: Nonrefillable container. Do not reuse this container or refill this container. Offer for recycling if available. If recycling is not available place in trash. IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**GENERAL DIRECTIONS for use in and around Homes, Yards, Gardens, Residential Landscapes and Home Greenhouses**

Not for use on plants being grown for sale or other commercial use, for commercial seed production, or for research purposes.

1. Shake well before mixing with water. Use within 48 hours after mixing.
2. Phyton-27® New Dimension can be applied with any type of application equipment that gives uniform coverage of all foliage.
3. Metal equipment used for application should be brass or stainless steel. Do not use Phyton-27® New Dimension with equipment containing aluminum parts.
4. Phytotoxicity: Phyton-27® New Dimension has been tested on a wide variety of herbaceous and woody ornamental plants without phytotoxicity symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars and because environmental factors and varietal stage of growth may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated dosage rate and observed for 5 to 7 days to determine phytotoxicity before treating large numbers of those plants.
5. Apply 100 gallons of Phyton-27® New Dimension use solution per acre of affected area to be treated.

**USE DIRECTIONS for Spray Applications: Annual & Perennial Bedding Plants, Flowering Plants, Tropical Foliage Plants, & Trees, Vines & Shrubs**

Spray for thorough foliage coverage. Re-spray rates and intervals vary with severity of disease and adversity of environmental conditions. In the event of heavy disease pressure, intervals can be shortened to 7 days. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Rates above 1.5 Tablespoons Phyton-27® New Dimension per 1 gallon water may damage some tender, open blooms. Applications on actively growing tissue may be more effective than applications on dormant tissue.



Tropical Foliage Plants such as but not limited to: Dosages in Tablespoons Phyton-27® New Dimension per 1 gallon water		
PLANT	TARGET DISEASE	RATE
Ferns	Botrytis	1.5 - 2.5
	Erwinia	
Hibiscus	Botrytis	1.5 - 2.5
	Pseudomonas	
	Xanthomonas	
Ivy	Botrytis	1.5 - 5.0
	Xanthomonas	
Palms	Botrytis	1.5 - 2.5
	Erwinia	
	Pseudomonas	
	Xanthomonas	
Spathiphyllum	Botrytis	1.5 - 3.0
	Cylindrocladium	
	Phytophthora	
Tropical Foliage (general)	Botrytis	1.5 - 5.0
	Powdery Mildew	
	Erwinia	
	Pseudomonas	
	Xanthomonas	

Flowering Plants such as but not limited to: Dosages in Tablespoons Phyton-27® New Dimension per 1 gallon water		
PLANT	TARGET DISEASE	RATE
African Violet	Botrytis	1.5
	Powdery Mildew	
Alstromeria	Botrytis	1.5
Alyssum	Botrytis	1.0 - 2.0
	Downy Mildew	
Azalea	Botrytis	1.5 - 3.5
	Colletotrichum	
	Cylindrocladium	
Begonia	Botrytis	1.5 - 3.0
	Powdery Mildew	
	Xanthomonas	
Calla lily	Botrytis	1.5 - 2.0
	Erwinia	
Carnation	Botrytis	1.5 - 2.0
Chrysanthemum	Botrytis	1.5 - 2.5
	Crown Gall	
	Erwinia	

	Powdery Mildew	
	Pseudomonas	
Cineraria	Botrytis	1.5 - 2.0
Cyclamen	Botrytis	1.5 - 2.0
	Erwinia	
Daffodil	Botrytis	1.5 - 2.0
Daylily	Botrytis	1.5 - 2.5
	Erwinia	
Delphinium	Botrytis	1.5 - 2.0
Easter lily	Botrytis	1.5 - 2.0
Exacum	Botrytis	1.5 - 2.0
Freesia	Botrytis	1.5
Fuchsia	Botrytis	1.5 - 2.5
	Powdery Mildew	
Geranium	Botrytis	1.5 - 5.0
	Rust	
	Pseudomonas	
	Xanthomonas	
Gerbera	Botrytis	1.5 - 2.5
	Powdery Mildew	
Gloxinia	Botrytis	1.5 - 2.0
Holiday Cactus	Botrytis	1.5 - 5.0
	Erwinia	
	Pseudomonas	
	Xanthomonas	
Hollyhock	Botrytis	1.5 - 2.5
	Powdery Mildew	
	Rust	
Hosta	Botrytis	1.5 - 3.0
	Erwinia	
Hyacinth	Botrytis	1.5 - 2.0
Hydrangea	Botrytis	1.5 - 2.5
	Powdery Mildew	
Impatiens	Alternaria	1.5 - 3.5
	Botrytis	
	Powdery Mildew	
	Pseudomonas	
Iris	Botrytis	1.5 - 2.0
	Erwinia	
Kalanchoe	Botrytis	1.5 - 3.5
	Erwinia	
	Powdery Mildew	
Lisianthus	Botrytis	1.5 - 2.0
New Guinea	Botrytis	1.5 - 2.0

Impatiens	Powdery Mildew		
Orchid	Botrytis	1.5 - 4.5	
	Erwinia		
	Pseudomonas		
	Xanthomonas		
Pansy	Botrytis	1.5 - 2.0	
	Phytophthora		
Periwinkle	Botrytis	1.5 - 2.0	
	Phytophthora		
Poinsettia	Botrytis	1.5 - 3.5	
	Erwinia		
	Powdery Mildew		
	Scab		
	Xanthomonas		
Primula	Botrytis	1.5 - 2.0	
	Erwinia		
Roses	Black Spot	1.5 - 5.5	
	Botrytis		
	Cylindrocladium		
	Downy Mildew		
	Powdery Mildew		
Snapdragon	Botrytis	1.5 - 2.5	
	Downy Mildew		
	Rust		
Sweet Pea	Botrytis	1.5	
Tulip	Botrytis	1.5 - 2.0	
Zinnia	Botrytis	1.5 - 2.5	
	Powdery Mildew		
	Pseudomonas		
	Xanthomonas		
Additional Annuals and Perennials:	Botrytis	1.5 - 2.5	
	Downy Mildew		
	Powdery Mildew		
	Pseudomonas		
Anenome	Aster	Carnation	Coleus
Columbine	Coneflower	Coreopsis	Cuphea
Dahlia	Daisy	Dianthus	Daylily
Delphinium	Echinacea	Lantana	Liatris
Lobelia	Lupine	Marigold	Monarda
Ornamental Grasses	Pentas	Petunia	Phlox
Poppy	Primrose	Ranunculus	Rudbeckia
Salvia	Sedum	Verbena	Veronica
Vinca	Viola		

<b>Soil Drench Applications:</b>		
Dosage in Tablespoons of Phyton-27® New Dimension per 1 gallon water		
<b>PLANT</b>	<b>TARGET DISEASE</b>	<b>RATE</b>
African Violet	Phytophthora	1.5 - 2.0
Azalea	Cylindrocladium	2.0 - 3.5
	Rhizoctonia	
Cyclamen	Erwinia	1.5
Ferns	Rhizoctonia	1.5 - 3.0
Geranium	Botrytis	2.0 - 3.5
Impatiens	Phytophthora	2.0 - 3.5
Japanese Maple	Verticillium	2.5
Periwinkle	Phytophthora	1.5 - 2.0
Poinsettia	Rhizoctonia	2.0 - 3.5
Rhododendron	Rhizoctonia	2.0 - 3.5
Rose	Black Spot	2.0 - 3.5
	Cylindrocladium	
Spathiphyllum	Cylindrocladium	2.0 - 3.5
	Phytophthora	
Do not apply more than 20 pounds of copper as metallic per acre per application (equivalent to 1.58 quarts per square foot at a dilution rate of 3.5 tablespoons per gallon of water)		

<b>Trees, Shrubs &amp; Vines</b> such as but not limited to:		
Dosages in Tablespoons Phyton-27® New Dimension per 1 gallon water		
<b>PLANT</b>	<b>TARGET DISEASE</b>	<b>RATE</b>
Azalea	Anthracnose	1.5 - 3.5
	Botrytis	
	Cylindrocladium	
Cherry Laurel	Xanthomonas	2.0 - 3.5
Conifers	Botrytis	1.0 - 2.5
	Diplodia	
Crape Myrtle	Botrytis	1.5 - 3.0
	Powdery Mildew	
Dogwood	Anthracnose	1.5 - 3.0
	Botrytis	
	Powdery Mildew	
Elm	Erwinia	2.0 - 4.5
Hydrangea	Botrytis	1.5 - 2.5
	Powdery Mildew	
Indian Hawthorn	Botrytis	1.5 - 3.0
	Entomosporium	
Japanese Maple	Botrytis	1.5 - 2.5
	Verticillium	
	Pseudomonas	

Lilac	Botrytis	1.5 - 2.5
	Pseudomonas	
	Powdery Mildew	
Oak	Anthrachnose	1.5 - 3.5
	Botrytis	
Oak Trunk Spray	Phytophthora	3.0 - 5.0
Photinia	Entomosporium	1.5 - 3.0
Pinus	Dothistroma	1.5 - 2.5
Rosaceae such as: Cotoneaster, Malus, Mountain Ash, Ornamental Crabapple, Ornamental Pear, Pyracantha	Apple Scab	1.5 - 4.5
	Botrytis	
	Fireblight	
	Pseudomonas	
Rhododendron	Botrytis	1.5 - 3.5
	Cylindrocladium	
Rose	<i>See Flowering Plants for Rates</i>	
Sycamore	Anthrachnose	1.5 - 3.5
	Botrytis	