

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

July 20, 2023

April Matute Documentation Specialist Valent BioSciences LLC 1910 Innovation Way, Suite 100 Libertyville, IL 60048-6316

 Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – To Add AmyloShield Biological Fungicide as an Alternate Brand Name for Zorda WG Biological Fungicide to the Master Label Product Name: Zorda WG Biological Fungicide EPA Registration Number: 73049-522 EPA Receipt Date: 06/14/2023 Action Case Number: 00452844

Dear Ms. Matute:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records. The alternate brand name AmyloShield Biological Fungicide has been added to the product's records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance.

If you have any questions, please contact Monica Thapa by phone at (202) 566-1543 or via email at <u>Thapa.Monica@epa.gov</u>.

Page 2 of 2 EPA Reg. No. 73049-522 Action Case No. 00452844

Sincerely,

CODY

Digitally signed by CODY KENDRICK KENDRICK Date: 2023.07.20 16:12:50 -07'00'

Cody Kendrick, Senior Regulatory Advisor Microbial Pesticides Branch **Biopesticides and Pollution** Prevention Division (7511M) Office of Pesticide Programs

Enclosure

[Text in brackets [] indicates optional language or language intended for explanatory purposes to facilitate label review. Thus, this language will often not appear on final printed labeling. Also, this page is present (page 1) to delineate sublabels and will not appear on the final printed labeling.]

#### Zorda<sup>™</sup> WG

#### **BIOLOGICAL FUNGICIDE**

[Alternative brand names: Zorda<sup>™</sup> Biological Fungicide / Bactericide, FoliFence<sup>™</sup>, AmyloShield<sup>™</sup>, Magic Gardener<sup>™</sup> Disease Control, Magic Gardener<sup>™</sup> Biological Disease Control, AmyloShield<sup>™</sup> Biological Fungicide]

#### MASTER LABEL

Zorda<sup>™</sup> is a [broad-spectrum] biological fungicide [/] [bactericide] for the [control] [and] [/] [or] [suppression] of plant pathogenic microbes.

Sublabel I: Zorda<sup>™</sup> WG Biological Fungicide – For use on Ornamentals, Fruits, Vegetables, Herbs, Hemp, Turfgrass and other grasses

Sublabel II: Zorda<sup>™</sup> WG Biological Fungicide- For Residential Home and Garden Uses

| ACTIVE INGREDIENT:                          | By Wt.        |
|---------------------------------------------|---------------|
| Bacillus amyloliquefaciens strain PTA-4838* | 74.81%        |
| OTHER INGREDIENTS                           | <u>25.19%</u> |
| TOTAL:                                      | 100.00%       |

\*Contains a minimum of 1.65 x 10<sup>10</sup> colony forming units per gram [CFU/g] of product.

## **KEEP OUT OF REACH OF CHILDREN**

## CAUTION

## NOTIFICATION

#### 73049-522

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

07202023

## Zorda™ WG BIOLOGICAL FUNGICIDE

## [Alternative brand name: Zorda<sup>TM</sup> Biological Fungicide / Bactericide]

| ACTIVE INGREDIENT:                          | By Wt   |
|---------------------------------------------|---------|
| Bacillus amyloliquefaciens strain PTA-4838* |         |
| OTHER INGREDIENTS                           | <u></u> |
| TOTAL:                                      | 100.00% |

\*Contains a minimum of 1.65 x 10<sup>10</sup> colony forming units per gram [CFU/g] of product.

# KEEP OUT OF REACH OF CHILDREN CAUTION

See succeeding panel for First Aid, additional Precautionary Statements, Directions for Use and Storage/Disposal Statements

Net weight:

Lot No.:

EPA Reg. No.: 73049-522 EPA Est. No.: 33762-IA-01

Manufactured For: Valent BioSciences LLC 1910 Innovation Way, Suite 100 Libertyville, IL 60048 USA 1-800-323-9597

| FIRST AID                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul> <li>If in Eyes</li> <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>     |                                                                                                                                                                                                                                                                 |  |
| If Inhaled                                                                                                                                                                                                                                                                                  | <ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul> |  |
| If on Skin or<br>Clothing                                                                                                                                                                                                                                                                   | 8                                                                                                                                                                                                                                                               |  |
| HOTLINE NUMBER                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                 |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597. |                                                                                                                                                                                                                                                                 |  |

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; or a NIOSH-approved elastomeric particulate respirator with any R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

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

#### **ENGINEERING CONTROLS:**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

## USER SAFETY RECOMMENDATIONS

Users should:

• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

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. Do not contaminate water when disposing of equipment washwater or rinsate.

## **DIRECTIONS FOR USE**

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

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

Do not apply this product in 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 State or Tribal 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 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 of 12 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

## 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 (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of the treatment areas until sprays have dried.

#### **PRODUCT INFORMATION**

Zorda<sup>™</sup> WG Biological Fungicide (hereafter referred to as Zorda) contains a minimum of 1.65 x 10<sup>10</sup> Colony Forming Units (CFUs) of the bacterium *Bacillus amyloliquefaciens* strain PTA-4838. When applied according to the label directions, Zorda [controls] [or] [suppresses] a broad range of fungal [and bacterial] pathogens to provide protection from harmful diseases.

As a microbial product containing live spores of the protective bacterium *Bacillus amyloliquefaciens*, Zorda will produce the best results when applied preventively (before a disease outbreak occurs).

Zorda can be applied as a foliar spray, either standalone or in combination with other registered products in a rotation or as tank mixes. For improved performance, use as part of a spray program in rotation with other registered fungicides [and bactericides] with unrelated modes of action.

Incorporation of adjuvants, in particular spreader-stickers, to ensure improved coverage can further enhance disease control. All types of spray equipment commonly utilized for the application of foliar sprays can be used to apply Zorda.

Many factors, including disease pressure, the environment (weather) and the condition of the crop can impact the level of control. Adjust spray intervals and use rate accordingly, with higher rates and more frequent applications if high disease pressure is expected.

Re-application may be required in case of heavy rain events shortly after a treatment.

Product should be used as soon as possible after opening the package.

## FOLIAR APPLICATION DIRECTIONS

Always read and follow the label instructions regarding application rates and restrictions. For best disease control performance, apply Zorda preventively (before or during the initial stages of disease). [Apply the

higher labeled rates when increased pest pressure is expected based on predicted weather conditions or other factors].

Application equipment must be clean and free of previous pesticide deposits before applying Zorda. Determine the required amount of product based on desired application rate and acreage to be treated. Fill tank with water to at least half the final volume. Add product(s) in mix order referenced in MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE section (see below) to the spray tank and mix, if necessary, for complete dissolution. Add remaining water to reach the desired spray volume (10 – 100 gallons of prepared spray solution per acre). If prepared spray solution is stored for extended periods of time, agitate before use.

Always use spray volumes high enough to ensure thorough coverage of all treated plant surfaces. Complete coverage is crucial for efficient disease control or suppression.

## **GREENHOUSE APPLICATION DIRECTIONS**

Zorda can be used as a foliar spray in the greenhouse. Please refer to the "Foliar Applications Directions" above for more information. As crop safety has not been confirmed on all cultivars, plant compatibility testing is recommended when spraying on a cultivar in the greenhouse for the first time.

## COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Do not tank mix Zorda with other products unless compatibility has been verified. If considering tank mixing Zorda with other products, use the following compatibility jar test before mixing an entire tank: Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

## Consult with your Valent Agricultural Specialist for potential pesticide interactions.

Always read and follow all label directions and precautions for each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix Zorda with any product that has a prohibition against tank mixing. For further information, consult your Valent Agricultural Specialist.

## MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE

- 1) Carrier (water)
- 2) Wettable granules (dry flowables)
- 3) Wettable powders
- 4) Aqueous solutions
- 5) Emulsifiable concentrates
- 6) Adjuvants

## **CROP APPLICATION DIRECTIONS**

## AGRICULTURAL/ COMMERCIAL USES:

#### **Root and Tuber Vegetables**

Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; beet, garden; beet, sugar; burdock, edible; canna, edible; carrot; cassava, bitter and sweet; celeriac (celery root); chayote (root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; potato; radish; radish, oriental (daikon); rutabaga; salsify (oyster plant); salsify, black; salsify, Spanish; skirret; sweet potato; tanier (cocoyam); turmeric; turnip; yam bean; yam, true; including cultivars, varieties and/or hybrids of these commodities

| Pest                                                | s                                                        | Application Rate                                       |
|-----------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|
| Aerial stem rot                                     | Erwinia carotovora /<br>Pectobacterium<br>carotovora [*] | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Alternaria Leaf Blight /<br>Black Rot / Black Crown |                                                          |                                                        |
| Rot                                                 | Alternaria spp.[*]                                       |                                                        |
| Bacterial Leaf Spot /<br>Bacterial Leaf Blight      | Xanthomonas spp.[*]                                      |                                                        |
| Black Dot                                           | Colletotrichum spp.[*]                                   |                                                        |
| Brown Leaf Spot                                     | Alternaria alternata[*]                                  |                                                        |
|                                                     | Peronospora spp.[*];                                     |                                                        |
| Downy Mildew                                        | Plasmopara spp.[*]                                       |                                                        |
| Early Blight                                        | Alternaria solani[*]                                     |                                                        |
| Gray Mold                                           | <i>Botrytis</i> spp.[*]                                  |                                                        |
| Late Blight                                         | Phytophthora infestans[*]                                |                                                        |
| Leaf Spot                                           | Cercospora spp.[*]                                       |                                                        |
| Powdery Mildew                                      | <i>Erysphe</i> spp.[*]                                   |                                                        |
| Ramularia                                           | Ramularia spp.[*]                                        |                                                        |
| Rhizoctonia Stem Canker                             | Rhizoctonia solani[*]                                    |                                                        |
| and Crown Rot                                       |                                                          |                                                        |
| Rust                                                | Uromyces spp.[*]                                         |                                                        |
|                                                     | Sclerotinia                                              |                                                        |
| White Mold                                          | sclerotiorum[*]                                          |                                                        |

\*Not for use in CA

## **Bulb Vegetables**

Chive (fresh leaves, Chinese, fresh leaves); daylily, bulb; elegans hosta; fritillaria (bulb, leaves); garlic (bulb, great-headed bulb and serpent bulb); kurrat; lady's leek; leek; wild leek; lily, bulb; onion (Beltsville bunching, bulb, Chinese, bulb, fresh, green, macrostem, pearl, potato bulb, tree, tops and Welsh tops); shallot (bulb and fresh leaves); including cultivars, varieties and/or hybrids of these commodities

| Pe                    | sts                   | Application Rate                                       |
|-----------------------|-----------------------|--------------------------------------------------------|
| Bacterial Leaf Streak | Pseudomonas spp.[*]   |                                                        |
| Botrytis Neck Rot     | Botrytis spp. [*]     | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Botrytis Leaf Blight  | Botrytis squamosa [*] |                                                        |
| Downy Mildew          | Peronospora spp.[*]   |                                                        |
| Onion Purple Blotch   | Alternaria porri[*]   |                                                        |

| Powdery Mildew          | <i>Erysiphe</i> spp.[*];<br><i>Leveillula taurica</i> [*] |
|-------------------------|-----------------------------------------------------------|
| Rust                    | Puccinia porri[*]                                         |
| Stemphylium Leaf Blight | Stemphylium                                               |
| / Stalk Rot             | vesicarium[*]                                             |
| White Rot               | Sclerotium cepivorum[*]                                   |
| Xanthomonas Leaf        | Xanthomonas spp.[*]                                       |
| Blight                  |                                                           |

## Leafy Vegetables

Amaranth (Chinese and leafy); arugula; aster, Indian; blackjack; broccoli (Chinese and raab) cabbage (abyssinian, Chinese bok choy and seakale); cat's whiskers; cham-chwi; cham-na-mul; chervil, fresh leaves; chipilin; chrysanthemum, garland; cilantro, fresh leaves; collards; corn salad; cosmos; cress (garden and upland); dandelion, leaves; dang-gwi, leaves; dillweed; dock; dol-nam-mul; ebolo; endive; escarole; fameflower; feather cockscomb; good king henry; hanover salad; huauzontle; jute, leaves; kale; lettuce (bitter, head and leaf); maca, leaves; mizuna; mustard greens; orach; parsley, fresh leaves; plantain, buckhorn; primrose, English; purslane (garden and winter); radicchio; radish, leaves; rape greens; rocket, wild; shepherd's purse; spinach (Malabar, New Zealand and tanier); Swiss chard; turnip greens; violet, Chinese, leaves; watercress\*\*; including cultivars, varieties and/or hybrids of these commodities

| 1                    | Pest                          | Application Rate                                       |
|----------------------|-------------------------------|--------------------------------------------------------|
| Anthracnose          | Colletotrichum spp.[*]        |                                                        |
| Alternaria Leaf Spot | Alternaria<br>brassicicola]*] | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Blight /   | Xanthomonas spp.[*];          |                                                        |
| Bacterial Leaf Spot  | Pseudomonas                   |                                                        |
|                      | syringae[*]                   |                                                        |
| Botrytis             | Botrytis spp.[*]              |                                                        |
| Bottom Rot           | Rhizoctonia solani[*]         |                                                        |
| Downy Mildew         | Bremia lactucae[*];           |                                                        |
|                      | Peronospora spp.[*]           |                                                        |
| Leaf Spot            | Cercospora spp.[*]            |                                                        |
| Powdery Mildew       | Leveillula taurica[*]         |                                                        |
| Pink Rot             | Sclerotinia                   |                                                        |
|                      | sclerotiorum[*]               |                                                        |
| Sclerotinia Head and | Sclaerotinia spp.[*]          |                                                        |
| Leaf Drop            |                               |                                                        |
| White Rust           | Albugo occidentalis[*]        |                                                        |

\*Not for use in CA

\*\* Do not apply to flooded fields

## Brassica (Cole) Leafy Vegetables

Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard (gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens; including cultivars, varieties and/or hybrids of these commodities

| P                       | est                        | Application Rate                                       |
|-------------------------|----------------------------|--------------------------------------------------------|
| Alternaria Leaf Spot    | Alternaria spp.[*]         |                                                        |
| Anthracnose             | Colletotrichum spp.[*]     | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Leaf Spot and |                            |                                                        |
| Blight                  | <i>Pseudomonas</i> spp.[*] |                                                        |
| Bacterial Rot           | Erwinia spp.[*]            |                                                        |
|                         | Xanthomonas                |                                                        |
| Black Rot               | campestris[*]              |                                                        |
| Gray Mold               | Botrytis spp.[*]           |                                                        |
|                         | Cercospora                 |                                                        |
| Cercospora Leaf Spot    | brassiciola[*]             |                                                        |
| Downy Mildew            | Peronospora spp.[*]        |                                                        |
| Pin Rot                 | Alternaria spp.[*]         |                                                        |
| Powdery Mildew          | Erysiphe polygoni[*]       |                                                        |
| Southern Blight         | Sclerotium rolfsii[*]      |                                                        |
| White Rust              | Albugo candida[*]          |                                                        |
|                         | Xanthomonas                |                                                        |
| Xanthomonas Leaf Spot   | campestris[*]              |                                                        |

\*Not for use in CA

## Legume Vegetables (Succulent or Dried)

Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna* spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava bean); chickpea (garbanzo bean); guar; jackbean; lablab bean (hyacinth bean); lentil; pea (*Pisum* spp.) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean; including cultivars, varieties and/or hybrids of these commodities

| Pe                   | ests                                                   | Application Rate                                       |
|----------------------|--------------------------------------------------------|--------------------------------------------------------|
| Asian Soybean Rust   | Phakopsora<br>pachyrhizi[*]                            | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Brown Spot | <i>Pseudomonas syringae</i><br>pv. <i>syringae</i> [*] |                                                        |
| Bacterial Pustule /  |                                                        |                                                        |
| Bacterial Blight     | Xanthomonas spp.[*]                                    |                                                        |
| Brown Spot           | Septoria glycines[*]                                   |                                                        |
|                      | Peronospora                                            |                                                        |
| Downy Mildew         | manshurica[*];                                         |                                                        |

|                | Phytophthora            |
|----------------|-------------------------|
|                | nicotianae[*]           |
| Gray Mold      | Botrytis spp.[*]        |
|                | Pseudomonas savastanoi  |
|                | / Pseudomonas syringae  |
| Halo Blight    | pv. phaseolicola        |
| Leaf Spot      | Cercospora spp.[*]      |
| Powdery Mildew | <i>Erysiphe</i> spp.[*] |
|                | Uromyces                |
|                | appendiculatus[*];      |
| Rust           | Puccinia spp.[*]        |
|                | Sclerotinia             |
| White Mold     | sclerotiorum[*]         |

## **Fruiting Vegetables**

African eggplant; bush tomato; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; including cultivars, varieties and/or hybrids of these commodities

| Р                       | est                      | Application Rate                                       |
|-------------------------|--------------------------|--------------------------------------------------------|
| Anthracnose             | Colletotrichum spp.[*]   |                                                        |
| Bacterial Canker        | Clavibacter              | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
|                         | michiganensis[*]         |                                                        |
| Bacterial Speck         | Pseudomonas syringae     |                                                        |
|                         | pv. tomato[*]            |                                                        |
| Bacterial Spot / Blight | Xanthomonas spp.[*]      |                                                        |
| Buckeye Rot             | Phytophthora spp.[*]     |                                                        |
| Early Blight            | Alternaria solani[*]     |                                                        |
| Gray Mold               | Botrytis cinerea[*]      |                                                        |
| Late Blight             | Phytophthora             |                                                        |
|                         | infestans[*]             |                                                        |
| Leaf Mold               | Fulvia fulva / Passalora |                                                        |
|                         | fulva[*]                 |                                                        |
| Phytophthora Blight     | Phytophthora capsici[*]  |                                                        |
| Powdery Mildew          | Leveillula taurica[*]    |                                                        |
| Southern Blight         | Sclerotium rolfsii[*]    |                                                        |
| Target Spot             | Corynespora              |                                                        |
|                         | cassiicola[*]            |                                                        |
| White Mold              | Sclerotinia              |                                                        |
|                         | sclerotiorum[*]          |                                                        |

\*Not for use in CA

## **Cucurbit Vegetables**

Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash (summer and winter (includes butternut squash, calabaza, hubbard, acorn, spaghetti)); watermelon; including cultivars, varieties and/or hybrids of these commodities

| I                      | Pests                           | Application Rate                                       |
|------------------------|---------------------------------|--------------------------------------------------------|
| Alternaria Leaf Spot   | Alternaria spp.[*]              |                                                        |
| Angular Leaf Spot      | Pseudomonas<br>syringae[*]      | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Anthracnose            | Colletotrichum<br>lagenarium[*] |                                                        |
| Bacterial Fruit Blotch | Acidovorax avenae[*]            |                                                        |
| Cercospora Leaf Spot   | Cercospora citrullina[*]        |                                                        |
| Downy Mildew           | Pseudoperonospora               |                                                        |
|                        | cubensis[*]                     |                                                        |
| Gray Mold              | Botrytis cinerea[*]             |                                                        |
| Gummy Stem Blight      | Didymella bryoniae[*]           |                                                        |
| Phytophthora Blight    | Phytophthora capsici[*]         |                                                        |
| Plectosporium Blight   | Plectosporium                   |                                                        |
|                        | tabacinum /                     |                                                        |
|                        | Plectosphaerella                |                                                        |
|                        | cucumerina [*]                  |                                                        |
| Powdery Mildew         | <i>Erysiphe</i> spp.[*];        |                                                        |
|                        | Sphaerotheca spp.[*]            |                                                        |
| Southern Blight        | Sclerotium rolfsi[*]            |                                                        |

\*Not for use in CA

## **Citrus Fruit**

Calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime (Australian desert, Australian finger, Australian round, Brown River finger, mount white, New Guinea wild, Russell River, sweet, and Tahiti lime); Mediterranean mandarin; orange, (sour and sweet); pummelo; satsuma mandarin; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uniq fruit; including cultivars, varieties and/or hybrids of these commodities

| Pests                 |                            | <b>Application Rate</b>                                |
|-----------------------|----------------------------|--------------------------------------------------------|
| Alternaria brown Spot | Alternaria alternata[*]    |                                                        |
| Anthracnose           | Colletotrichum             | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
|                       | gloeosporioides[*]         |                                                        |
| Bacterial Blast       | Pseudomonas                |                                                        |
|                       | syringae[*]                |                                                        |
| Black Spot            | Guignardia citricarpa /    |                                                        |
|                       | Phyllosticta citricarpa[*] |                                                        |
| Citrus Canker         | Xanthomonas spp.[*]        |                                                        |

| Greasy Spot           | Mycosphaerella citri[*] |
|-----------------------|-------------------------|
| Melanose              | Diaporthe citri[*]      |
| Post Bloom Fruit Drop | Colletotrichum          |
|                       | acutatum[*]             |
| Powdery Mildew        | Oidium                  |
|                       | citri[*];Fibroidium     |
|                       | tingitaninum /          |
|                       | Acrosporium             |
|                       | tingitaninum [*]        |
| Citrus Scab           | Elsinoe fawcetti[*]     |

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| <b>Pome Fruit</b><br>Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince,<br>Japanese; tejocote; including cultivars, varieties and/or hybrids of these commodities |                           |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------|
| Pes                                                                                                                                                                                                                   | ts                        | <b>Application Rate</b>                                |
| Alternaria blotch                                                                                                                                                                                                     | Alternaria mali[*]        |                                                        |
| Apple Scab                                                                                                                                                                                                            | Venturia spp.[*]          | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bitter Rot                                                                                                                                                                                                            | Colletotrichum spp.[*]    |                                                        |
| Black Rot / Frogeye Leaf                                                                                                                                                                                              | Botryosphaeria obtuse[*]  |                                                        |
| Spot                                                                                                                                                                                                                  |                           |                                                        |
| Brooks spot                                                                                                                                                                                                           | Mycosphaerella pomi[*]    |                                                        |
| Bull's-Eye Rot                                                                                                                                                                                                        | <i>Neofabraea</i> spp.[*] |                                                        |
| Cedar-Apple Rust                                                                                                                                                                                                      | Gymnosporangium           |                                                        |
|                                                                                                                                                                                                                       | juniperi-virginianae[*]   |                                                        |
| Fire Blight                                                                                                                                                                                                           | Erwinia amylovora[*]      |                                                        |
| Flyspeck                                                                                                                                                                                                              | Schizothyrium pomi[*]     |                                                        |
| Gray Mold                                                                                                                                                                                                             | Botrytis spp.[*]          |                                                        |
| Powdery Mildew                                                                                                                                                                                                        | Podosphaera               |                                                        |
|                                                                                                                                                                                                                       | leucotricha[*]            |                                                        |
| Sooty Blotch                                                                                                                                                                                                          | Sooty Blotch Disease      |                                                        |
|                                                                                                                                                                                                                       | complex[*]                |                                                        |
| White Rot                                                                                                                                                                                                             | Botryosphaeria            |                                                        |
|                                                                                                                                                                                                                       | dothidea[*]               |                                                        |

| Stone Fruit                                                                                                                                                                                                                                                                                |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Apricot; apricot, Japanese; capulin; cherry (black, Nanking, sweet and tart); Jujube, Chinese; nectarine; peach; plum (American, beach, Canada, cherry, Chickasaw, Damson, Japanese, Klamath and prune); plumcot; sloe; including cultivars, varieties and/or hybrids of these commodities |  |  |
| Pests Application Rate                                                                                                                                                                                                                                                                     |  |  |

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| Alternaria Spot / Fruit    | Alternaria alternata[*] |                                                      |
|----------------------------|-------------------------|------------------------------------------------------|
| Rot                        |                         | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lb per acre |
| Anthracnose                | Colletotrichum spp.[*]  |                                                      |
| Bacterial Canker           | Pseudomonas spp.[*]     |                                                      |
| Bacterial Spot / Bacterial | Xanthomonas spp.[*]     |                                                      |
| Leaf Spot                  |                         |                                                      |
| Brown Rot Blossom          | Monilinia spp[*]        |                                                      |
| Blight and fruit rot       |                         |                                                      |
| Cherry Leaf Spot           | Blumeriella jaapii[*]   |                                                      |
| Fruit Brown Rot            | Monilinia fruticola[*]  |                                                      |
| Gray Mold                  | Botrytis spp.[*]        |                                                      |
| Leaf Curl                  | Taphrina deformans[*]   |                                                      |
| Powdery Mildew             | Sphaerotheca            |                                                      |
|                            | pannosa[*];             |                                                      |
|                            | Podosphaera spp.[*]     |                                                      |
| Rusty Spot                 | Podosphaera             |                                                      |
|                            | leucotricha[*]          |                                                      |
| Scab                       | Cladosporium            |                                                      |
|                            | carpophilum[*]          |                                                      |
| Shot Hole                  | Wilsonomyces            |                                                      |
|                            | carpophilus[*];         |                                                      |
|                            | Xanthomonas pruni[*]    |                                                      |

## **Berry and Small Fruit**

Amur river grape; aronia berry; bayberry; bearberry; bilberry; blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Orgeon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora, and cultivars, varieties and/or hybrids of these); blueberry (highbush and lowbush); buffalo currant; buffaloberry; che; Chilean guava; chokecherry; cloudberry; grape; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); kiwifruit (fuzzy and hardy); lingonberry; maypop; mountain pepper berries; mulberry; muntries; native currant; partridgeberry; phalsa; pincherry; raspberry (black and red); riberry; salal; schisandra berry; sea buckthorn; serviceberry; strawberry; wild raspberry; including cultivars, varieties and/or hybrids of these commodities

| Pests                |                             | Application Rate                                       |
|----------------------|-----------------------------|--------------------------------------------------------|
| Alternaria Fruit Rot | Alternaria tenuissima[*]    |                                                        |
| Angular Leaf Spot    | Xanthomonas<br>fragariae[*] | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Anthracnose          | Colletotrichum              |                                                        |
|                      | gloeosporioides[*];         |                                                        |

|                         | Calledation                        |
|-------------------------|------------------------------------|
|                         | Colletotrichum                     |
| Bacterial Canker        | acutatum[*]<br>Pseudomonas spp.[*] |
| Botrytis Blight / Gray  | Botrytis spp.[*]                   |
| Mold                    | Boiryus spp.[·]                    |
| Botryosphaeria Dieback; | Botryosphaeria spp.[*];            |
| Macrophoma Rot          | <i>Diploida</i> spp.[*];           |
|                         | Lasiodiplodia spp.[*];             |
|                         | Neofusicoccum spp.[*];             |
|                         | Dothiorella spp.[*];               |
|                         | Sphaeropsis spp.[*]                |
| Black Rot               | Guignardia bidwelii[*]             |
| Common Leaf Spot        | Ramularia tulasneii[*]             |
| Downy Mildew            | Plasmopara viticola[*]             |
| Esca Black Measles      | Phaeoacremonium                    |
|                         | spp.[*]; Phaeomoniella             |
|                         | spp.[*]                            |
| Eutypa                  | Eutypa lata[*]                     |
| Gray Mold               | Botrytis spp.[*]                   |
| Leaf Rust               | Pucciniastrum                      |
|                         | vaccinia[*]                        |
| Leaf Scorch             | Diplocarpum earliana[*]            |
| Leaf Spot               | Mycospaerella                      |
| -                       | fragariae[*]                       |
| Mummy Berry             | Monilinia vaccinii-                |
|                         | corymbosi[*]                       |
| Phomopsis               | Phomopsis spp.[*]                  |
| Powdery Mildew          | Unicula / Erysiphe                 |
| ·                       | necator[*];                        |
|                         | Microsphaera alni[*];              |
|                         | Sphaerotheca                       |
|                         | macularis[*]                       |
| Sclerotinia             | Sclerotinia                        |
|                         | sclerotiorum[*]                    |
| Sooty Mold              | Pathogens belonging to             |
| -                       | the Order                          |
|                         | Dothiodeales[*]                    |
| Sour Rot                | Sour rot complex[*]                |
| Summer Bunch Rot        | Aspergillus spp.[*];               |
|                         | Alternaria spp.[*];                |
|                         | Cladosporium spp.[*];              |
|                         | Penicillium spp.[*];               |
|                         | Rhizopus spp.[*]                   |

\*\* Do not apply to flooded fields

## **Tree Nuts**

African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; including cultivars, varieties and/or hybrids of these commodities

| Pes                             | sts                                                     | Application Rate                                       |
|---------------------------------|---------------------------------------------------------|--------------------------------------------------------|
| Alternaria Leaf Spot            | Alternaria alternata[*]                                 |                                                        |
| Anthracnose                     | Colletotrichum spp.[*]                                  | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Canker                | Pseudomonas<br>syringae[*]                              |                                                        |
| Bacterial Spot                  | Xanthomonas spp.[*]                                     |                                                        |
| Blossom and Shoot<br>Blight     | Botrytis cinerea[*]                                     |                                                        |
| Botryosphaeria Blight           | Botryosphaeria<br>dothidea[*]                           |                                                        |
| Brown Rot                       | Monilinia spp.[*]                                       |                                                        |
| Hull Rot                        | <i>Rhizopus</i> spp. [*];<br><i>Monilinia</i> spp.[*]   |                                                        |
| Jacket Rot / Green Fruit<br>Rot | Disease Complex[*]                                      |                                                        |
| Pecan Scab                      | Cladosporium<br>carygenium[*]                           |                                                        |
| Powdery Mildew                  | Sphaerotheca<br>pannosa[*];<br>Podosphaera spp.[*]      |                                                        |
| Rust                            | Tranzschelia discolor[*]                                |                                                        |
| Rusty Spot                      | Podosphaera<br>leucotricha[*]                           |                                                        |
| Scab                            | Cladosporium spp.[*]                                    |                                                        |
| Shot Hole                       | Wilsonomyces<br>carpophilus[*];<br>Xanthomonas pruni[*] |                                                        |
| Walnut Blight                   | Xanthomonas<br>campestris[*]                            |                                                        |

\*Not for use in CA

| Cereal Grains (Including Forage, Fodder or<br>Straw from Cereal Grains)                                                                                                                                        |                     |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|
| Barley; buckwheat; corn; millet, pearl; millet, proso; oats; popcorn; rice**; rye; sorghum (milo); teosinte; triticale; wheat; wild rice**; including cultivars, varieties and/or hybrids of these commodities |                     |                  |
| Pests Application Rate                                                                                                                                                                                         |                     | Application Rate |
| Bacterial Blight and<br>Streak                                                                                                                                                                                 | Xanthomonas spp.[*] |                  |

| Blast                 | Magnaporthe grisea /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|                       | Pyricularia oryzae[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| Brown Rot, Leaf Spots | <i>Cercospora</i> spp.[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| Brown Rust            | Puccinia hordei[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
| Common Rust           | Puccinia sorghi[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |
| Crown Rust            | Puccinia coronate[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| Head Scab             | Fusarium spp.[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |
| Leaf Rust             | Puccinia triticina[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| Northern Leaf Blight  | Setosphaeria turcica /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |
|                       | <pre>Exservation Exservation Exservation Exservation Example: Exservation Example: Exservation Example: Exservation Example: Exservation Example: E</pre> |                                                        |
| Powdery Mildew        | <i>Erysiphe graminis</i> [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
| Sheath Spot           | Rhizoctonia oryzae[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| Sheath Blight         | Rhizoctonia solani[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| Smut                  | Tilletia barclayena[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |
| Southern Leaf Blight  | Bipolaris maydis[*];                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
|                       | Cochliobolus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
|                       | hererostrophus[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |
| Southern Rust         | Puccinia polysora[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| Stem Rot              | Sclerotium oryzae[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| Stem Rust             | Puccinia graminis[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| Stripe Rust           | Puccinia striiformis[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |
| Tan Spot              | Pyrenophora tritici-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
|                       | repentis[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |

\*\* Do not apply to flooded fields

## **Non-Grass Animal Feed**

Alfalfa; bean, velvet; clover (*Trifolium* spp., *Melilotus* spp.); kudzu; lespedeza; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk; including cultivars, varieties and/or hybrids of these commodities

| Pests             |                                                        | Application Rate                                       |
|-------------------|--------------------------------------------------------|--------------------------------------------------------|
| Bacterial Wilt    | Clavibacter michiganense [*]                           | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Powdery mildew    | <i>Erysiphe</i> spp.[*]                                |                                                        |
| Spring Black Stem | Phoma medicaginis /<br>Ascochyta<br>medicaginicola [*] |                                                        |
| White mold        | Sclerotinia<br>sclerotiorum[*]                         |                                                        |

\*Not for use in CA

## Herbs and Spices

Allspice; angelica; anise (seed); anise, star; annatto (seed); balm (lemon balm); basil; borage; burnet; camomile; caper buds; caraway; caraway, black; cardamom; cassia (bark and buds); catnip; celery seed; chervil (dried); chive; chive, Chinese; cinnamon; clary; clove buds; coriander leaf (cilantro or Chinese parsley); coriander seed (cilantro); costmary; culantro (leaf); culantro (seed); cumin; curry (leaf); dill (dillweed); dill (seed); fennel (common); fennel, Florence (seed); fenugreek; grains of paradise; horehound; hyssop; juniper berry; lavender; lemongrass; lovage (leaf); lovage (seed); mace; marigold; marjoram (includes sweet or annual marjoram, wild marjoram or oregano, and pot marjoram); mint; mustard (seed); nasturtium; nutmeg; parsley (dried); pennyroyal; pepper, black; pepper, white; poppy (seed); rosemary; rue; saffron; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; vanilla; wintergreen; woodruff; wormwood; including cultivars, varieties and/or hybrids of these commodities

| Pests                  |                         | Application Rate                                       |
|------------------------|-------------------------|--------------------------------------------------------|
| Alternaria Leaf Blight | Alternaria spp.[*]      |                                                        |
| Anthracnose            | Colletotrichum spp.[*]  | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Diseases     | <i>Erwinia</i> spp.[*]; |                                                        |
|                        | Xanthomonas spp.[*];    |                                                        |
|                        | Pseudomonas spp.[*]     |                                                        |
| Botrytis               | Botrytis spp.[*]        |                                                        |
| Downy Mildew           | Peronospora spp.[*]     |                                                        |
| Powdery Mildew         | <i>Erysiphe</i> spp.[*] |                                                        |
| Sclerotinia            | Sclerotinia spp.[*]     |                                                        |
| Leaf Spot              | Cercospora spp.[*]      |                                                        |
| Rusts[*]               | Puccinia spp. and       |                                                        |
|                        | others[*]               |                                                        |

\*Not for use in CA

#### Oilseeds

Borage; calendula; castor oil plant; Chinese tallowtree; cottonseed; crambe; cuphea; echium; euphorbia; evening primrose; flax seed; gold of pleasure; hare's ear mustard; jojoba; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; niger seed; oil radish; poppy seed; rapeseed; rose hip; safflower; sesame; stokes aster; sunflower; sweet rocket; tallowwood; tea oil plant; vernonia; including cultivars, varieties and/or hybrids of these commodities

| Pests                |                         | Application Rate                                       |
|----------------------|-------------------------|--------------------------------------------------------|
| Alternaria Leaf Spot | Alternaria spp.[*]      |                                                        |
| Bacterial Pustule,   | Xanthomonas spp.[*]     | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Blight     |                         |                                                        |
| Bacterial Speck      | Pseudomonas spp.[*]     |                                                        |
| Downy Mildew         | Peronospora spp.[*];    |                                                        |
|                      | Plasmopara halstedii[*] |                                                        |
| Leaf Spot            | Corynespora             |                                                        |
| _                    | cassiicola[*]           |                                                        |
| Powdery Mildew       | Oidium lini[*]          |                                                        |

| Pod and Stem Blight | Diaporthe               |
|---------------------|-------------------------|
|                     | phaseolorum[*];         |
|                     | Phomopsis longicolla[*] |
| Rust                | Albugo spp.[*]; Puccina |
|                     | spp.[*]; Melampsora     |
|                     | lini[*]                 |
| White Mold          | Sclerotinia             |
|                     | sclerotiorum[*]         |

#### Stalk, Stem and Leaf Petiole Vegetables

Agave; aloe vera; asparagus; bamboo, shoots; cardoon; celery; celery, Chinese; celtuce; fennel, Florence, fresh leaves and stalk; fern, edible, fiddlehead; fuki; artichoke, globe; kale, sea; kohlrabi; palm hearts; prickly pear, pads; prickly pear, Texas, pads; rhubarb; udo; zuiki; including cultivars, varieties and/or hybrids of these commodities

| Pests                  |                         | <b>Application Rate</b>                                |
|------------------------|-------------------------|--------------------------------------------------------|
| Anthracnose            | Colletotrichum spp.[*]  |                                                        |
| Alternaria Leaf Spot   | Alternaria spp.[*]      | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Bacterial Crown Rot    | Erwinia chrysanthemi[*] |                                                        |
| Botrytis Blight / Gray | Botrytis spp.[*]        |                                                        |
| Mold                   |                         |                                                        |
| Phytophthora Spear and | Phytophthora spp.[*]    |                                                        |
| Crown Rot              |                         |                                                        |
| Powdery Mildew         | Leveillula taurica[*]   |                                                        |
| Ramularia Leaf Spot    | Ramularia cynarae[*]    |                                                        |
| Rust                   | Puccinia asparagi[*]    |                                                        |
| Watery Soft Rot        | Sclerotinia spp.[*]     |                                                        |

\*Not for use in CA

## **Tropical and Subtropical Fruit, Edible Peel**

Acai; acerola; achachairu; African plum; agritos; almondette; ambarella; apak palm; appleberry; araza; arbutus berry; babaco; bacaba palm; bacaba-de-leque; bayberry, red; bignay; bilimbi; borojo; breadnut; cabeluda; cajou, fruit; cambuca; carandas-plum; carob; cashew apple; Ceylon iron wood; Ceylon olive; cherry-of-the-Rio-Grande; Chinese olive, black; Chinese olive, white; chirauli-nut; ciruela verde; cocoplum; date; Davidson's plum; desert-date; doum palm coconut; false sandalwood; feijoa; fig; fragrant manjack; gooseberry, Abyssinian; gooseberry, Ceylon; gooseberry, Indian; gooseberry, otaheite; governor's plum; grumichama; guabiroba; guava; guava berry; guava, Brazilian; guava, cattley; guava, Costa Rican; guava, para; guava, purple strawberry; guava, strawberry; guava, yellow strawberry; guayabillo; illawarra plum; imbe; imbu; Indian-plum; jaboticaba; Jamaica-cherry; jambolan; jelly palm; jujube, Indian; kaffir-plum; kakadu plum; kapundung; karanda; kwai muk; lemon aspen; mangaba; Marian plum; mombin, Malayan; mombin, purple; mombin, yellow; monkeyfruit; monos plum; mountain cherry; nance; natal plum; noni; olive; papaya, mountain; pataua; peach palm, fruit; persimmon, black; persimmon, Japanese; pitomba; plum-of-Martinique; pomerac; rambai; rose apple; rukam; rumberry; sea

grape; sentul; sete-capotes; silver aspen; starfruit; Surinam cherry; tamarind; uvalha; water apple; water pear; water berry; wax jambu; including cultivars, varieties and/or hybrids of these commodities

| Pests      |                                              | Application Rate                                       |
|------------|----------------------------------------------|--------------------------------------------------------|
| Leaf Spot  | Cercospora<br>cladosporioides[*]             | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Olive Knot | Pseudomonas savastanoi<br>pv. savastanoi [*] |                                                        |

\*Not for use in CA

## Tropical and Subtropical Fruit, Inedible Peel

Abiu; aisen; akee apple; atemoya; avocado; avocado, Guatemalan; avocado, Mexican; avocado, West Indian; bacury; bael fruit; banana; banana, dwarf; binjai; biriba; breadfruit; Burmese grape; canistel; cat'seyes; champedak; cherimoya; cupuacu; custard apple; dragon fruit; durian; elephant-apple; etambe; granadilla; granadilla, giant; ilama; inga; jackfruit; jatoba; karuka; kei apple; langsat; lanjut; longan; lucuma; lychee; mabolo; madras-thorn; mammy-apple; manduro; mango; mango, horse; mango, Saipan; mangosteen; marang; marmaladebox; matisia; mesquite; mongongo, fruit; monkey-bread-tree; monstera; nicobar-breadfruit; paho; pandanus; papaya; passionflower, winged-stem; passionfruit; passionfruit, banana; passionfruit, purple; passionfruit, yellow; pawpaw, common; pawpaw, small-flower; pelipisan; pequi; pequia; persimmon, American; pineapple; pitahaya; pitaya; pitaya, amarillo; pitaya, roja; pitaya, yellow; plantain; pomegranate; poshte; prickly pear, fruit; prickly pear, Texas, fruit; pulasan; quandong; rambutan; saguaro; sapodilla; sapote, black; sapote, green; sapote, mamey; sapote, white; sataw; satinleaf; screw-pine; Sierra Leone-tamarind; soncoya; soursop; Spanish lime; star apple; sugar apple; sun sapote; tamarind-of-the-Indies; velvet tamarind; wampi; white star apple; wild loquat; including cultivars, varieties and/or hybrids of these commodities

| Р                    | ests                   | Application Rate                                       |
|----------------------|------------------------|--------------------------------------------------------|
| Anthracnose          | Colletotrichum spp.[*] |                                                        |
| Bacterial Canker     | Xanthomonas spp.[*];   | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
|                      | Erwinia spp.[*]        |                                                        |
| Bacterial Blight     | Pseudomonas spp.[*]    |                                                        |
| Botrytis Fruit Rot   | Botrytis spp.[*]       |                                                        |
| Heart Rot            | Alternaria spp.[*]     |                                                        |
| Leaf and Fruit Spots | Cercospora spp.,       |                                                        |
|                      | Gloeosporium spp.[*];  |                                                        |
|                      | Pestalotia spp.[*]     |                                                        |
| Powdery Mildew       | Sphaerotheca           |                                                        |
|                      | pannosa[*]             |                                                        |
| Scab                 | Sphaceloma spp.[*]     |                                                        |
| Sclerotinia          | Sclerotinia            |                                                        |
|                      | sclerotiorum[*]        |                                                        |

| Black Sigatoka | Mycosphaerella |  |
|----------------|----------------|--|
|                | fijiensis[*]   |  |

| Peanut               |                                           |                                                        |  |
|----------------------|-------------------------------------------|--------------------------------------------------------|--|
|                      | Including those grown for oil production  |                                                        |  |
| Pe                   | sts                                       | Application Rate                                       |  |
| Early Leaf Spot      | Cercospora<br>arachidicola.[*]            | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |  |
| Late Leaf Spot       | Cercosporidium<br>personatum[*]           |                                                        |  |
| Rhizoctonia Limb Rot | Rhizoctonia solani[*]                     |                                                        |  |
| Rust                 | Puccinia arachidis[*]                     |                                                        |  |
| Sclerotinia blight   | Sclerotinia minor, S.<br>sclerotiorum.[*] |                                                        |  |
| Web Blotch           | Phoma arachidicola[*]                     |                                                        |  |
| Southern stem rot    | Sclerotium rolfsii[*]                     |                                                        |  |
| (southern blight)    |                                           |                                                        |  |

\*Not for use in CA

| Hemp                  |                                                         |                                                        |
|-----------------------|---------------------------------------------------------|--------------------------------------------------------|
| Pests Application Rat |                                                         | Application Rate                                       |
| Gray Mold / Bud Rot   | Botrytis cinerea[*]                                     |                                                        |
| Powdery Mildew        | Podosphaera macularis /<br>Sphaerotheca<br>macularis[*] | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| White Mold            | Sclerotinia<br>sclerotiorum[*]                          |                                                        |

\*Not for use in CA

| Hops           |                                                         |                                                        |
|----------------|---------------------------------------------------------|--------------------------------------------------------|
| Pests          |                                                         | <b>Application Rate</b>                                |
| Downy Mildew   | Pseudoperonospora<br>humuli[*]                          | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Powdery Mildew | Podosphaera macularis /<br>Sphaerotheca<br>macularis[*] |                                                        |

\*Not for use in CA

| Coffee                 |                                |                                                        |
|------------------------|--------------------------------|--------------------------------------------------------|
| Pes                    | sts                            | Application Rate                                       |
| Anthracnose            | Colletotrichum spp.[*]         |                                                        |
| Bacterial Blight       | Pseudomonas<br>syringae[*]     | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
| Botrytis Flower Blight | Botrytis spp.[*]               |                                                        |
| Cercospora Leaf Spot   | Cercospora spp.[*]             |                                                        |
| Coffee Berry Disease   | Colletotrichum<br>coffeanum[*] |                                                        |
| Coffee Rust            | Hemileia vastatrix[*]          |                                                        |

| Sugarcane              |                     |                                                        |
|------------------------|---------------------|--------------------------------------------------------|
| Pests Application Rate |                     |                                                        |
| Gumming Disease        | Xanthomonas spp.[*] |                                                        |
| Red Rot                | Colletotrichum      | [1.5] [2] [2.5] [2.75] [3] [3.5] [2 – 3] lbs. per acre |
|                        | falcatum[*]         |                                                        |
| Rust                   | Puccinia            |                                                        |
|                        | melanocephala[*]    |                                                        |

\*Not for use in CA

| Tobacco                     |                                          |                                                      |
|-----------------------------|------------------------------------------|------------------------------------------------------|
| P                           | ests                                     | Application Rate                                     |
| Angular Leaf Spot           | Pseudomonas spp.[*]                      |                                                      |
| Anthracnose                 | Colletotrichum and<br>Glomerella spp.[*] | [1.5] [2] [2.5] [2.75] [3] [3.5] [2-3] lbs. per acre |
| Blue Mold / Downy<br>Mildew | Peronospora<br>tabacina.[*]              |                                                      |
| Brown Spot                  | Alternaria spp.[*]                       | -                                                    |
| Frogeye Leaf Spot           | Cercospora<br>nicotianae[*]              |                                                      |
| Collar Rot                  | Sclerotinia<br>sclerotiorum[*]           |                                                      |
| Gray Mold                   | Botrytis cinerea[*]                      |                                                      |
| Powdery Mildew              | Erysiphe<br>cichoracearum[*]             |                                                      |
| Target Spot                 | Rhizoctonia solani[*]                    | <u> </u>                                             |

\*Not for use in CA

#### **Storage and Disposal**

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

**Pesticide Storage: Keep container tightly closed when not in use.** This product consists of living microbes. Place container in a cool, dry place, but do not exceed 95°F (35°C). Do not freeze. Tightly close opened package.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. If burned, stay out of smoke.

## **NOTICE TO USER**

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in accordance with accompanying directions.

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#### Zorda<sup>™</sup> WG BIOLOGICAL FUNGICIDE

[Alternative Brand Name(s): FoliFence<sup>TM</sup> and AmyloShield<sup>TM</sup>]

## [Sub-Label I]

| ACTIVE INGREDIENT:                          | By Wt   |
|---------------------------------------------|---------|
| Bacillus amyloliquefaciens strain PTA-4838* |         |
| OTHER INGREDIENTS                           |         |
| TOTAL:                                      | 100.00% |

\*Contains a minimum of 1.65 x 10<sup>10</sup> colony forming units per gram [CFU/g] of product

# KEEP OUT OF REACH OF CHILDREN CAUTION

Net weight:

Lot No.:

EPA Reg. No.: 73049-522 EPA Est. No.: 33762-IA-01

Manufactured For: Valent BioSciences LLC 1910 Innovation Way, Suite 100 Libertyville, IL 60048 USA 1-800-323-9597

| FIRST AID                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If in Eyes                                                                                                                                                                                                                                                                                  | <ul> <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> |  |
| If Inhaled                                                                                                                                                                                                                                                                                  | <ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>     |  |
| If on Skin or<br>Clothing                                                                                                                                                                                                                                                                   | <ul> <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>                                                                   |  |
| HOTLINE NUMBER                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                     |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597. |                                                                                                                                                                                                                                                                     |  |

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; or a NIOSH-approved elastomeric particulate respirator with any R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

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

#### **ENGINEERING CONTROLS**

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **IMPORTANT**

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

## USER SAFETY RECOMMENDATIONS

Users should:

• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

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. Do not contaminate water when disposing of equipment washwater or rinsate.

## **DIRECTIONS FOR USE**

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

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

Do not apply this product in 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 State or Tribal 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

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 of 12 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

## 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 (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of the treatment areas until sprays have dried.

## **PRODUCT INFORMATION**

Zorda<sup>™</sup> WG Biological Fungicide (hereafter referred to as Zorda) contains the active ingredient bacterium *Bacillus amyloliquefaciens* strain PTA-4838. When applied according to the label directions, Zorda [controls] [or] [suppresses] a broad range of fungal [and bacterial] pathogens to provide protection from harmful diseases.

## **GENERAL USE INFORMATION**

Zorda can be applied as a foliar spray, either standalone or in combination with other registered products in a rotation or as tank mixes. For improved performance, use as part of a spray program in rotation with other registered fungicides [and bactericides] with unrelated modes of action.

As a microbial product containing live spores of the protective bacterium *Bacillus amyloliquefaciens* strain PTA-4838, Zorda will produce the best results when applied preventively (before a disease outbreak occurs).

Incorporation of adjuvants, in particular spreader-stickers, to ensure improved coverage, can further enhance disease control. All types of spray equipment commonly utilized for the application of foliar sprays can be used to apply Zorda.

Many factors, including disease pressure, the environment (weather) and the condition of the crop can impact the level of control. Adjust use spray intervals and use rate accordingly, with higher rates and more frequent applications if high disease pressure is expected. Re-application may be required in case of heavy rain events shortly after a treatment.

#### PREHARVEST INTERVAL

Zorda has a 0-day preharvest interval and can be applied up to and including the day of harvest.

#### FOLIAR APPLICATION DIRECTIONS

Always read and follow the label instructions regarding application rates and restrictions. For best disease control performance, apply Zorda preventively (before or during the initial stages of disease). [Apply the higher labeled rates when increased pest pressure is expected based on predicted weather conditions or other factors].

Application equipment must be clean and free of previous pesticide deposits before applying Zorda. Determine the required amount of product based on desired application date and acreage to be treated. Fill tank with water to at least half the final volume. Add product(s) in mix order referenced in MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE section (see below) to the spray tank and mix if necessary, for complete dissolution. Add remaining water to reach the desired spray volume (10 – 100 gallons per acre of prepared spray solution). If prepared spray solution is stored for extended periods of time, agitate well before use.

Always use spray volumes high enough to ensure thorough coverage of all treated plant surfaces. Complete coverage is crucial for efficient disease control or suppression.

#### **GREENHOUSE APPLICATION DIRECTIONS**

Zorda can be used as a foliar spray in the greenhouse. Please refer to the "Foliar Applications Directions" above for more information. As crop safety has not been confirmed on all cultivars, plant compatibility testing is recommended when spraying on a new cultivar in the greenhouse for the first time.

## **COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS**

Do not tank mix Zorda with other products unless compatibility has been verified. If considering tank mixing Zorda with other products, use the following compatibility jar test before mixing an entire tank: Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Always read and follow all label directions and precautions for each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix Zorda with any product that has a prohibition against tank mixing. For further information, consult your Valent Agricultural Specialist.

## MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE

- 1) Carrier (water)
- 2) Wettable granules (dry flowables)
- 3) Wettable powders
- 4) Aqueous solutions
- 5) Emulsifiable concentrates
- 6) Adjuvants

#### **CROP APPLICATION DIRECTIONS**

# Applications for Plants Grown in Fields, Outdoors, Indoors, Greenhouses, or Nurseries such as Ornamentals, Fruits, Vegetables, Herbs, Hemp, Turfgrass and other grasses.

#### **Crop Types**

**Ornamentals** such as flowering plants, annual plants and perennial plants, bedding plants, potted and cut flowers, topical foliage

Woody Forest and Ornamental Trees and Shrubs such as broadleaves and conifers

#### Fruits, Vegetables, and Herbs

Hemp

| Pests                    |                                                                             | <b>Application Rate</b>                    |  |
|--------------------------|-----------------------------------------------------------------------------|--------------------------------------------|--|
| Aerial stem rot          | Erwinia carotovora /                                                        | Outdoor uses:                              |  |
|                          | Pectobacterium carotovora [*]                                               | 1.5 - 3.5 lbs. per acre                    |  |
| Alternaria               | Alternaria spp.[*]                                                          |                                            |  |
| Angular Leaf Spot        | Pseudomonas syringae[*]                                                     |                                            |  |
| Anthracnose              | Colletotrichum spp.[*]                                                      | Greenhouse Use:                            |  |
| Apple Scab               | Venturia spp.[*]                                                            | Low to medium disease pressure:            |  |
| Bacterial Canker         | Clavibacter michiganensis[*]                                                | 0.6 oz./gal                                |  |
| Bacterial Diseases       | <i>Erwinia</i> spp.; <i>Pseudomonas</i> spp.[*]; <i>Xanthomonas</i> spp.[*] | (4.5 g/L)                                  |  |
| Bacterial Fruit Blotch   | Acidovorax avenae[*]                                                        | High disease pressure:                     |  |
| Bitter Rot               | Colletotrichum spp.[*]                                                      | 1.2 oz./gal                                |  |
| Black Rot / Frogeye Leaf | Botryosphaeria obtuse[*]                                                    | (9.0 g/L)                                  |  |
| Spot                     |                                                                             |                                            |  |
| Black Sigatoka           | Mycosphaerella fijiensis[*]                                                 | Re-apply on a 3- to 10-day schedule, with  |  |
|                          | Diplocarpon                                                                 | average re-application interval of 7 days. |  |
| Black Spot of Rose       | rosae[*]                                                                    |                                            |  |
| Blossom Blight           | Monilinia spp.[*]                                                           |                                            |  |
| Botryosphaeria Dieback;  | Botryosphaeria spp.[*];                                                     |                                            |  |
| Macrophoma Rot           | <i>Diploida</i> spp.[*];                                                    |                                            |  |
|                          | Lasiodiplodia spp.[*];                                                      |                                            |  |
|                          | Neofusicoccum spp.[*];                                                      |                                            |  |
|                          | Dothiorella spp.[*];                                                        |                                            |  |
|                          | Sphaeropsis spp.[*]                                                         |                                            |  |
| Botrytis                 | Botrytis spp. [*]                                                           |                                            |  |
| Brooks spot              | Mycosphaerella pomi[*]                                                      |                                            |  |
| Buckeye Rot              | Phytophthora spp.[*]                                                        |                                            |  |
| Bull's-Eye Rot           | Neofabraea spp.[*]                                                          |                                            |  |
| Cercospora Leaf Spot     | Cercospora citrullina[*]                                                    |                                            |  |
| Cherry Leaf Spot         | Blumeriella jaapii[*]                                                       |                                            |  |
| Common Leaf Spot         | Ramularia tulasneii[*]                                                      |                                            |  |
| Downy Mildew             | Peronospora<br>spp.[*]; Plasmopara                                          |                                            |  |

| Г                                  | <i>i.h</i>                                                      |
|------------------------------------|-----------------------------------------------------------------|
| Early Diaht                        | viburni[*]                                                      |
| Early Blight<br>Esca Black Measles | Alternaria solani[*]                                            |
| Esca Diack wieasies                | <i>Phaeoacremonium</i> spp.[*];<br><i>Phaeomoniella</i> spp.[*] |
| Eutypa                             | <i>Eutypa lata</i> [*]                                          |
| Fire Blight                        | Euiypa iaia[*]<br>Erwinia amylovora[*]                          |
| Flyspeck                           | Schizothyrium pomi[*]                                           |
| Fruit Brown Rot                    | Monilinia fruticola[*]                                          |
| Gray Mold/Bud Rot                  | Botrytis spp.[*]                                                |
| Gummy Stem Blight                  | Didymella bryoniae[*]                                           |
| Hull Rot                           | Rhizopus spp. [*]; Monilinia                                    |
|                                    | spp.[*]                                                         |
| Jacket Rot / Green Fruit Rot       | Disease Complex[*]                                              |
| Late Blight                        | Phytophthora infestans[*]                                       |
| Leaf Curl                          | Taphrina deformans[*]                                           |
| Leaf Mold                          | Fulvia fulva / Passalora                                        |
|                                    | fulva[*]                                                        |
| Leaf Rust                          | Pucciniastrum vaccinia[*]                                       |
| Leaf Scorch                        | Diplocarpum earliana[*]                                         |
|                                    | Alternaria spp.[*]; Cercospora                                  |
|                                    | spp.[*]; Entomosporium                                          |
|                                    | spp.[*]; Myrothecium                                            |
| Leaf Spot                          | spp.[*]; Septoria spp.[*]                                       |
| Mummy Berry                        | Monilinia vaccinii-                                             |
|                                    | corymbosi[*]                                                    |
| Olive Knot                         | Pseudomonas savastanoi pv.                                      |
|                                    | savastanoi [*]                                                  |
| Onion Purple Blotch                | Alternaria porri[*]                                             |
| Pecan Scab                         | Cladosporium carygenium[*]                                      |
| Phomopsis                          | Phomopsis spp.[*]                                               |
| Pin Rot                            | Alternaria spp.[*]                                              |
| Pink Rot                           | Sclerotinia sclerotiorum[*]                                     |
| Phytophthora Blight                | Phytophthora capsici[*]                                         |
| Plectosporium Blight               | Plectosporium tabacinum /                                       |
|                                    | Plectosphaerella cucumerina                                     |
|                                    |                                                                 |
|                                    | <i>Erysiphe</i> spp.[*];                                        |
|                                    | <i>Microsphaera</i> spp.[*]; <i>Oidium</i>                      |
| Downdown Mildare                   | spp.[*]; Podosphaera                                            |
| Powdery Mildew                     | <pre>spp.[*]; Sphaerotheca spp.[*];</pre>                       |
| Ramularia                          | Ramularia spp.[*]                                               |
| Rhizoctonia                        | Rhizoctonia solani[*]                                           |
| Rusts[*]                           | Puccinia spp. and others [*]                                    |
| Rusty Spot                         | Podosphaera leucotricha[*]                                      |
| Scab                               | Venturia spp.[*]                                                |
| Sclerotinia                        | Sclaerotinia spp.[*]                                            |
| Shot Hole                          | <i>Wilsonomyces carpophilus</i> [*];                            |
|                                    | Xanthomonas pruni[*]                                            |

| Sooty Blotch              | Sooty Blotch Disease                      |
|---------------------------|-------------------------------------------|
|                           | complex[*]                                |
| Sooty Mold                | Pathogens belonging to the                |
| <u> </u>                  | Order Dothiodeales[*]                     |
| Sour Rot                  | Sour rot complex[*]                       |
| Southern Blight           | Sclerotium rolfsii[*]                     |
| Stemphylium Leaf Blight / | Stemphylium vesicarium[*]                 |
| Stalk Rot                 |                                           |
| Summer Bunch Rot          | Aspergillus spp.[*]; Alternaria           |
|                           | <pre>spp.[*]; Cladosporium spp.[*];</pre> |
|                           | Penicillium spp.[*]; Rhizopus             |
|                           | spp.[*]                                   |
| Target Spot               | Corynespora cassiicola[*]                 |
| Walnut Blight             | Xanthomonas campestris[*]                 |
| Watery Soft Rot           | Sclerotinia spp.[*]                       |
| White Mold                | Sclerotinia sclerotiorum[*]               |
| White Rot                 | Sclerotium cepivorum[*]                   |
| Xanthomonas Leaf Spot     | Xanthomonas campestris[*]                 |

## **Turfgrass and Ornamental Grasses**

Bluegrass; Bentgrass; Bermudagrass; Dichondra; Fescue; Orchardgrass; *Poa annua*; Ryegrass; St. Augustine; Zoysia; mixtures and other grasses, ornamental turf

| Pests                     |                               | <b>Application Rate</b>                    |
|---------------------------|-------------------------------|--------------------------------------------|
| Anthracnose               | Colletotrichum graminicola[*] |                                            |
| Dead Spot                 | Ophiosphaerella agrostis[*]   | 1.5 – 3.5 lbs. per acre                    |
| Brown Patch               | Rhizoctonia solani[*]         |                                            |
|                           | Gloeocercospora               |                                            |
| Copper Spot               | sorghi[*]                     | Re-apply on a 3- to 10-day schedule, with  |
|                           | Lanzia spp.[*]; Clarireedia   | average re-application interval of 7 days. |
|                           | homoeocarpa / Sclerotinia     |                                            |
| Dollar Spot               | homeocarpa[*]                 |                                            |
| Fusarium Patch            | Fusarium nivale[*]            |                                            |
| Gray Leaf Spot            | Pyricularia grisea[*]         |                                            |
| Gray Snow Mold            | <i>Typhula</i> spp.[*]        |                                            |
|                           | Bipolaris spp.[*]; Drechslera |                                            |
| Melting Out Leaf Spot     | spp.[*]                       |                                            |
| Necrotic Ring Spot        | Leptosphaeria korrae[*]       |                                            |
| Pink Patch                | Limonomyces roseipellis[*]    |                                            |
| Pink Snow Mold            | Microdochium nivale[*]        |                                            |
| Powdery Mildew            | Eryspiphe graminis[*]         |                                            |
| Pythium Blight / Root Rot | <i>Pythium</i> spp.[*]        |                                            |
| Red Thread                | Laetisaria fuciformis[*]      |                                            |
| Rust                      | Puccinia spp.[*]              |                                            |
| Southern Blight           | Sclerotium rolfsii[*]         |                                            |
|                           | Leptosphaeria korrae[*];      |                                            |
| Spring Dead Spot          | Leptosphaeria narmari[*];     |                                            |

|                          | Ophiosphaerella             |
|--------------------------|-----------------------------|
|                          | herpotricha[*]              |
|                          | Ustilago striiformis[*];    |
| Stripe Smut              | Urocystis agropyri[*]       |
| Summer Patch / Poa Patch | Magnaporthe poae[*]         |
| Take-all Root Rot        | Gaeumannomyces graminis[*]  |
| Yellow Patch             | Rhizoctonia cerealis[*]     |
| Yellow Tuft / Downy      |                             |
| Mildew                   | Sclerophthora macrospora[*] |

#### **Storage and Disposal**

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

**Pesticide Storage: Keep container tightly closed when not in use.** This product consists of living microbes. Place in a cool, dry place, do not exceed 95°F (35°C). Do not freeze. Tightly close opened package.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. If burned, stay out of smoke.

## **NOTICE TO USER**

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in accordance with accompanying directions.

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## Zorda™ WG BIOLOGICAL FUNGICIDE

[Alternative Brand Name(s): Magic Gardener<sup>™</sup> Disease Control, Magic Gardener<sup>™</sup> Biological Disease Control]

#### [Sub-Label II]

Zorda<sup>™</sup> WG Biological Fungicide is a [broad-spectrum] biological fungicide [/] [bactericide] for the [control] [and] [/] [or] [suppression] of diseases caused by plant pathogenic microbes for residential home and garden use.

| ACTIVE INGREDIENT:                          | By Wt   |
|---------------------------------------------|---------|
| Bacillus amyloliquefaciens strain PTA-4838* |         |
| OTHER INGREDIENTS                           | <u></u> |
| TOTAL:                                      | 100.00% |

\*Contains a minimum of 1.65 x 10<sup>10</sup> colony forming units per gram [CFU/g] of product

## **KEEP OUT OF REACH OF CHILDREN**

## CAUTION

Net weight:

Lot No.:

EPA Reg. No.: 73049-522 EPA Est. No.: 33762-IA-01

Manufactured For: Valent BioSciences LLC 1910 Innovation Way, Suite 100 Libertyville, IL 60048 USA 1-800-323-9597

| FIRST AID                                                                            |                                                                                                                                                                                                                              |  |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If in Eyes                                                                           | • Hold eye open and rinse slowly and gently with water for 15-20 minutes.                                                                                                                                                    |  |
|                                                                                      | • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.                                                                                                                                   |  |
|                                                                                      | • Call a poison control center or doctor for treatment advice.                                                                                                                                                               |  |
|                                                                                      | Move person to fresh air.                                                                                                                                                                                                    |  |
| If Inhaled                                                                           | <ul> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul> |  |
| If on Skin or                                                                        | • Take off contaminated clothing.                                                                                                                                                                                            |  |
| Clothing                                                                             | <ul><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>                                                                        |  |
| HOTLINE NUMBER                                                                       |                                                                                                                                                                                                                              |  |
| Have the product container or label with you when calling a poison control center or |                                                                                                                                                                                                                              |  |
| doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for   |                                                                                                                                                                                                                              |  |
| emergency medical treatment and/or transport emergency information. For all other    |                                                                                                                                                                                                                              |  |
| information, call 1-800-323-9597.                                                    |                                                                                                                                                                                                                              |  |

## **PRECAUTIONARY STATEMENTS**

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### **ENVIRONMENTAL HAZARDS**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For residential use only.

## **PRODUCT INFORMATION**

Zorda<sup>™</sup> WG Biological Fungicide (hereafter referred to as Zorda) contains the active ingredient bacterium *Bacillus amyloliquefaciens* strain PTA-4838. When applied according to the label directions, Zorda [controls] [or] [suppresses] a broad range of fungal [and bacterial] pathogens to provide protection from harmful plant diseases.

#### **GENERAL USE INFORMATION**

Mix 2 tablespoons of Zorda in 1 gallon of water and mix well to create solution. For more severe disease pressure or likelihood of disease pressure, use a higher rate of 4 tablespoons per gallon of water. Spray leaves, stems, and new shoots thoroughly to runoff, providing complete coverage of entire plant. [(For turfgrass, use a rate of 0.55 - 1.1 oz. per 1,000 sq. ft.)]

For best results, apply product prior to disease development or at the first sign of infection. Repeat at 7-day intervals as needed to protect new foliage. Under conditions of heavy rainfall shortly after application, it may be necessary to reapply the product. Do not water foliage within 4 hours of application. To apply Zorda, always mix with water at the rate above and use a pump bottle, handheld pump, backpack, or similar type of spray equipment.

For best results, use a compatible spreader/sticker (consult with your local garden center for specific recommendations).

Days to Harvest: Zorda can be applied up to and including the day of harvest.

## **CROP APPLICATION DIRECTIONS**

| Applications for Plants Grown in Residential/Home Garden Settings such as Ornamentals, Fruits, |
|------------------------------------------------------------------------------------------------|
| Vegetables, Herbs, Hemp, and Turfgrass and other grasses.                                      |

| Diseases                      |                                                                             |
|-------------------------------|-----------------------------------------------------------------------------|
| Aerial stem rot               | Erwinia carotovora / Pectobacterium carotovora [*]                          |
| Alternaria                    | Alternaria spp.[*]                                                          |
| Angular Leaf Spot             | Pseudomonas syringae[*]                                                     |
| Anthracnose                   | Colletotrichum spp.[*]                                                      |
| Apple Scab                    | Venturia spp.[*]                                                            |
| Bacterial Canker              | Clavibacter michiganensis[*]                                                |
| Bacterial Diseases            | <i>Erwinia</i> spp.; <i>Pseudomonas</i> spp.[*]; <i>Xanthomonas</i> spp.[*] |
| Bacterial Fruit Blotch        | Acidovorax avenae[*]                                                        |
| Bitter Rot                    | Colletotrichum spp.[*]                                                      |
| Black Rot / Frogeye Leaf Spot | Botryosphaeria obtuse[*]                                                    |
| Black Sigatoka                | Mycosphaerella fijiensis[*]                                                 |
| Black Spot of Rose            | Diplocarpon<br>rosae[*]                                                     |
| Blossom Blight                | Monilinia spp.[*]                                                           |
| Botryosphaeria Dieback;       | Botryosphaeria spp.[*]; Diploida spp.[*]; Lasiodiplodia                     |
| Macrophoma Rot                | spp.[*]; Neofusicoccum spp.[*]; Dothiorella spp.[*];                        |
| -                             | Sphaeropsis spp.[*]                                                         |
| Botrytis                      | Botrytis spp. [*]                                                           |

| Brown Patch         Rhizoctonia solani[*]           Buckeye Rot         Phytophthora spp.[*]           Bull"s-Eye Rot         Neofabraea spp.[*]           Cercospora Leaf Spot         Cercospora citrullina[*]           Common Leaf Spot         Blumeriella jaapii[*]           Common Leaf Spot         Blumeriella jaapii[*]           Common Leaf Spot         Gloeocercospora           Sorgh[*]         Dead Spot           Dollar Spot         Lanzia spp.[*]: Clarireedia homoeocarpa / Sclerotinia homeocarpa[*]           Downy Mildew         Peronospora spp.[*]: Plasmopara viburni[*]           Early Blight         Alternaria solani[*]           Early Blight         Alternaria solani[*]           Fire Blight         Ervinia amylovora[*]           Fire Blight         Ervinia amylovora[*]           Fire Soro Mot         Monilinia fruticola[*]           Fruit Brown Rot         Monilinia furticola[*]           Fruit Brown Rot         Botrytis spp.[*]           Gray Leaf Spot         Pyricularia griseal*]           Gray Leaf Spot         Pyricularia griseal*]           Gray Snow Mold         Typhula spp.[*]           Grav Mold / Bud Rot         Botrytis spp.[*]           Grav Mold         Typhula spr.[*]           Leaf Rust         Puccin                                                                           | Brooks spot                           | Mycosphaerella pomi[*]                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Buckeye Rot         Phytophthora spp.[*]           Bull's-Eye Rot         Neofabraca spp.[*]           Cercospora Leaf Spot         Cercospora citrullina[*]           Cherry Leaf Spot         Blumeriella jaapil(*)           Common Leaf Spot         Ramularia tulasneii[*]           Common Leaf Spot         Gloeocercospora           sorght[*]         Dead Spot           Dollar Spot         Lanzia spp.[*]; Clarireedia homoeocarpa / Sclerotinia homeocarpa[*]           Downy Mildew         Peronospora spp.[*]; Plasmopara viburni[*]           Early Blight         Alternaria solani[*]           Esca Black Measles         Pheeoacremonium spp.[*]; Phaeomoniella spp.[*]           Eutypa         Eutypa laid[*]           Fire Blight         Erwinia amylovora[*]           Flyspeck         Schizothyrium pomi[*]           Fruit Brown Rot         Monilinia fruitcold[*]           Fusarium Patch         Fusarium nivale[*]           Gray Snow Mold         Typhula spp.[*]           Gummy Steem Blight         Didymella buryoniae[*]           Hull Rot         Rhizopus spp.[*]: Monilinia spp.[*]           Leaf Curl         Taphrina deformans[*]           Leaf Spot         Pyricularia griseal*]           Gray Mold / Bud Rot         Borynis spp.[*] <td< td=""><td></td><td></td></td<>                                        |                                       |                                                                                                                                         |
| Bull's-Eye Rot         Neofabraea spp.[*]           Cercospora Leaf Spot         Cercospora citrullina[*]           Cherry Leaf Spot         Blumeriell apapil[*]           Common Leaf Spot         Gloeocercospora           Sorghi[*]         Dead Spot           Dead Spot         Ophiosphaerella agrostis[*]           Dead Spot         Ophiosphaerella agrostis[*]           Dollar Spot         Lanzia spp.[*]: Clarireedia homoeocarpa / Sclerotinia homeocarpa[*]           Downy Mildew         Peronospora spp.[*]: Plasmopara viburni[*]           Early Blight         Alternaria solan[*]           Esca Black Measles         Phaeoacremonium spp.[*]: Phaeomoniella spp.[*]           Eutypa         Eutypa lau[*]           Fire Blight         Erwinia amylovora[*]           Frie Blight         Erwinia amylovora[*]           Fruit Brown Rot         Monilinia fruicola[*]           Fusarium Patch         Fusarium nivale[*]           Gray Leaf Spot         Pyricularia grisea[*]           Gray Mold / Bud Rot         Botrytis spp.[*]           Gray Snow Mold         Typhula spp.[*]           Hull Rot         Rhizopus spp. [*]: Monilinia spp.[*]           Late Blight         Phytophthora infestans[*]           Leaf Curl         Taphrina deformans[*]                                                                        |                                       | L J                                                                                                                                     |
| Cercospora Leaf Spot       Cercospora cirrullina[*]         Cherry Leaf Spot       Blumeriella jaapii*]         Common Leaf Spot       Ramularia tulasneii[*]         Copper Spot       Goleocercospora         sorgh[*]       Dead Spot         Dollar Spot       Ophiosphaerella agrostis[*]         Dollar Spot       Lanzia spp.[*]: Clarireedia homoeocarpa / Sclerotinia homeocarpa[*]         Downy Mildew       Peronospora spp.[*]: Plasmopara viburni[*]         Early Blight       Alternaria solani[*]         Esca Black Measles       Phaeoacremonium spp.[*]: Phaeomoniella spp.[*]         Eutypa       Eutypa lata[*]         Fire Blight       Erwinia amylovora[*]         Flyspeck       Schizothyrium pomi[*]         Fruit Brown Rot       Monilinia fruitcole[*]         Fusarium Patch       Fusarium nivale[*]         Gray Snow Mold       Typhula spp.[*]         Gray Snow Mold       Typhula spp.[*]         Macket Rot / Green Fruit Rot       Disease Complex[*]         Leaf Curl       Taphrina deformans[*]         Leaf Curl       Taphrina deformans[*]         Leaf Nold       Fulvia fulva / Passalora fulva[*]         Leaf Spot       Diplocarpum earlinas spp.[*]: Septoria spp.[*]         Melting Out Leaf Spot       Diplocarpum earlina                                                                                   |                                       |                                                                                                                                         |
| Cherry Leaf Spot       Blumeriella jaapii[*]         Common Leaf Spot       Ramularia tulaneii[*]         Copper Spot       Gloeocercospora<br>sorghi[*]         Dead Spot       Ophiosphaerella agrostis[*]         Dollar Spot       Lanzia spp.[*]; Clarireedia homoeocarpa / Sclerotinia<br>homeocarpa[*]         Downy Midew       Peronospora spp.[*]; Plasmopara viburni[*]         Early Blight       Alternaria sopara[*]         Esca Black Measles       Phaeoacremonium spp.[*]; Phaeomoniella spp.[*]         Eutypa       Eutypa lata[*]         Fire Blight       Erwinia amylovora[*]         Fyspeck       Schizothyrium poml[*]         Fruit Brown Rot       Monilinia fruicola[*]         Gray Leaf Spot       Pyricularia grisea[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Mond / Bud Rot       Botrytis spp.[*]         Gummy Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp.[*]         Modd / Bud Rot       Botrytis spp.[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gummy Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp.[*]         Leaf Curl       Taphrina deformans[*]         Leaf Kust       Pucciniastrum vaccinia[*]         L                                                                                                       |                                       |                                                                                                                                         |
| Common Leaf Spot         Ramularia tulasneii[*]           Copper Spot         Gloeocercospora           sorghi[*]         Dead Spot         Ophiosphaerella agrostis[*]           Dollar Spot         Lanzia spp.[*]; Clarireedia homoeocarpa / Sclerotinia homoeocarpa / Sclerotinia homoeocarpa / Sclerotinia homoeocarpa / Sclerotinia           Downy Mildew         Peronospora spp.[*]; Plasmopara viburni[*]           Early Blight         Alternaria solani[*]           Early Blight         Alternaria solani[*]           Early Blight         Eutypa           Eutypa         Eutypa lata[*]           Fire Blight         Erwinia amylovora[*]           Fyspeck         Schizothyrium pomi[*]           Fusarium Patch         Fusarium nivade[*]           Gray Leaf Spot         Pyricularia grisea[*]           Gray Mold / Bud Rot         Boryrits spp.[*]           Gummy Stem Blight         Didymella bryoniae[*]           Hull Rot         Rhizopus spp. [*]: Monilinia spp.[*]           Gunny Stem Blight         Didymella bryoniae[*]           Leaf Mold         Fulvia fulva / Passalora fulva[*]           Leaf Mold         Fulvia fulva / Passalora fulva[*]           Leaf Spot         Diplocarpum earliana[*]           Leaf Spot         Bipolaris spp.[*]: Cercospora spp.[*]: Entomosporium spp.[*]: Monilinia sc              |                                       |                                                                                                                                         |
| Copper Spot         Gloeocercospora<br>sorgh[*]           Dead Spot         Ophiosphaerella agrostis[*]           Dollar Spot         Lanzia spp.[*]: Clarireedia homoeocarpa / Sclerotinia<br>homeocarpa[*]           Downy Mildew         Peronospora spp.[*]: Plasmopara viburni[*]           Early Blight         Alternaria solani[*]           Esca Black Measles         Phaeoacremonium spp.[*]: Phaeomoniella spp.[*]           Eutypa         Eutypa lata[*]           Fire Blight         Erwinia amylovora[*]           Flyspeck         Schizothyrium pomi[*]           Fruit Brown Rot         Monilinia fruicola[*]           Fusarium Patch         Fusarium nivale[*]           Gray Mold / Bud Rot         Botryiti spp.[*]           Gumy Stem Blight         Disease Complex[*]           Hull Rot         Rhizopus spp. [*]: Monilinia spp.[*]           Jacket Rot / Green Fruit Rot         Disease Complex[*]           Leaf Curl         Taphrina deformans[*]           Leaf Rust         Pucciniastrum vaccinia[*]           Leaf Spot         Spp.[*]: Monilinia vap.[*]: Sentomosporium spp.[*]: Sentomosporium spp.[*]: Monilinia vap.[*]: Sentomosporium spp.[*]: Monilinia vaccinia spp.[*]           Hull Rot         Rhizopus spp.[*]: Direchslera spp.[*]           Leaf Spot         Phytophthora infestans[*]           Leaf Curl |                                       |                                                                                                                                         |
| Copper Spot       sorghi[*]         Dead Spot       Ophiosphaerella agrostis[*]         Dollar Spot       Lanzia spp.[*]; Clarireedia homoeocarpa / Sclerotinia<br>homeocarpa[*]         Downy Mildew       Peronospora spp.[*]; Plasmopara viburni[*]         Early Blight       Alternaria solani[*]         Esca Black Measles       Phaeoacremonium spp.[*]; Phaeomoniella spp.[*]         Eutypa       Eutypa lata[*]         Fire Blight       Erwinia anylovora[*]         Fruit Brown Rot       Monilinia fruicola[*]         Fruit Brown Rot       Monilinia fruicola[*]         Frus Spot       Pyricularia grisea[*]         Gray Leaf Spot       Pyricularia grisea[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Mold / Bud Rot       Robrytis spp.[*]         Gray Mold / Grow Rot       Rhiizopus spp.[*]         Hull Rot       Rhizopus spp.[*]         Jacket Rot / Green Fruit Rot       Disease Complex[*]         Leaf Curl       Taphrina deformans[*]         Leaf Nold       Fluvia fulva / Passalora fulva[*]         Leaf Spot       Spice:// Syrothecrim spp.[*]: Cercospora spp.[*]: Entomosporium spp.[*]: Monilinia vaccinia[*]         Leaf Spot       Bipolaris spp.[*]: Drechstera spp.[*]         Melting Out Leaf Spot       Bipolaris spp.[*]: Drechstera spp.[*]                                             | <b>^</b>                              |                                                                                                                                         |
| Dead Spot         Ophiosphaerella agrostis[*]           Dollar Spot         Lanzia spp.[*]; Clarireedia homoeocarpa / Sclerotinia<br>homeocarpa[*]           Downy Mildew         Peronospora spp.[*]; Plasmopara viburni[*]           Early Blight         Alternaria solani[*]           Early Blight         Alternaria solani[*]           Early Blight         Alternaria solani[*]           Early Blight         Eutypa lata[*]           Fire Blight         Erwinia amylovora[*]           Fire Blight         Erwinia amylovora[*]           Fire Starium Patch         Fusarium nivale[*]           Gray Leaf Spot         Pyricularia grisea[*]           Gray Mold / Bud Rot         Botrytis spp.[*]           Gard Mold         Typhula spp.[*]           Gummy Stem Blight         Didymella bryoniae[*]           Hull Rot         Rhizopus spp.[*]           Gard Creen Fruit Rot         Disease Complex[*]           Leaf Curl         Taphrina deformans[*]           Leaf Rust         Pucciniastrum vaccinia[*]           Leaf Rot         Grepot           Spot         #]: Monilinia vaccinia-corymbosi[*]           Melting Out Leaf Spot         Bipolaris spp.[*]: Corolspra spp.[*]: Entomosporium spp.[*]: Monilinia vaccinia-corymbosi[*]           Leaf Rust         Pucciniastrum vaccinia[*] <td>Copper Spot</td> <td>-</td>         | Copper Spot                           | -                                                                                                                                       |
| Dotar Spothomeocarpa[*]Downy MildewPeronospora spp.[*]: Plasmopara viburni[*]Early BlightAlternaria solani[*]Esca Black MeaslesPhaeoacremonium spp.[*]: Phaeomoniella spp.[*]EutypaEutypa lata[*]Fire BlightErwinia amylovora[*]FlyspeckSchizothyrium pomi[*]Fruit Brown RotMonilinia fruitoida[*]Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf KustPucciniastrum vaccinia[*]Leaf KustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotSpp.[*]: Myorthecium spp.[*]: Entomosporium spp.[*]: Monilinia spp.[*]Melting Out Leaf SpotBipolaris spp.[*]: Drechslera spp.[*]Melting Out Leaf SpotLeptosphaeria korrae[*]Onion Purple BlotchAlternaria spp.[*]: Drechslera spp.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis sep.[*]Pin RotAlternaria spp.[*]Pin RotLienonomyces roseipellis[*]Pin RotLienonomyces roseipellis[*]Pin RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Ro                                                                                                                              | Dead Spot                             |                                                                                                                                         |
| Downy MildewPeronospora spp.[*]; Plasmopara viburni[*]Early BlightAlternaria solani[*]Esca Black MeaslesPhaeoacremonium spp.[*]; Phaeomoniella spp.[*]EutypaEutypa lata[*]Fire BlightErwinia amylovora[*]FlyspeckSchizothyrium pomi[*]Fruit Brown RotMonilinia fruicola[*]Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp.[*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf KotGummy Stem BlightDiplocarpum earliana[*]Leaf ScorchDiplocarpum earliana[*]Leaf ScorchDiplocarpum earliana[*]Leaf ScorchBiplolaris spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Monilinia vaccinia[*]Leaf SpotSpot_leipshaeria korrae[*]Mutting Out Leaf SpotBiplolaris spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Monilinia vaccinii corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pin RotAlternaria sclerotiorum[*]Pink RatSclerotinia sclerotiorum[*]Pink RotSclerotinia                                                                                                   | Dollar Spot                           |                                                                                                                                         |
| Early Blight       Alternaria solan[*]         Esca Black Measles       Phaeoacremonium spp.[*]; Phaeomoniella spp.[*]         Eutypa       Eutypa lata[*]         Fire Blight       Erwinia amylovora[*]         Fruit Brown Rot       Monilinia fruticola[*]         Fusarium Patch       Fusarium novale[*]         Gray Leaf Spot       Pyricularia grisea[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Snow Mold       Typhula spp.[*]         Gummy Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp. [*]; Monilinia spp.[*]         Jacket Rot / Green Fruit Rot       Disease Complex[*]         Late Blight       Phytophthora infestans[*]         Leaf Mold       Fulvia fulva / Passalora fulva[*]         Leaf Kust       Pucciniastrum vaccinia[*]         Leaf Scoreh       Diplocarpum earliana[*]         Leaf Spot       Alternaria spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Monihia vaccinia[*]         Leaf Spot       Bipolaris spp.[*]; Drechslera spp.[*]         Muting Out Leaf Spot       Bipolaris spp.[*]; Cercospora spp.[*]         Mummy Berry       Monilinia vaccinii-corymbosi[*]         Necrotic Ring Spot       Leptosphaeria korrae[*]         Olive Knot       Pseudomonas savastanoi pv. savastanoi [*] </td <td>Downy Mildew</td> <td></td>                       | Downy Mildew                          |                                                                                                                                         |
| Esca Black MeaslesPhaeoacremonium spp.[*]: Phaeomoniella spp.[*]EutypaEutypa lata[*]Fire BlightErwinia amylovora[*]FlyspeckSchizothyrium pomi[*]Fruit Brown RotMonilinia fruicola[*]Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]: Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Leaf BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf KustPucciniastrum vaccinia[*]Leaf ScorehDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]: Drechslera spp.[*]: Entomosporium<br>spp.[*]: Drechslera spp.[*]Melting Out Leaf SpotLeptosphaeria korrae[*]Mummy BerryMonilinia vaccinic-corymbosi[*]Nucrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis spp.[*]Pink RotSclerotinia carrygenium[*]Pink RotSclerotinia sclerotirum [*]Pink RotSclerotinia sclerotirum [*]Pink RotSclerotinia sclerotirum [*]Pink RotPlectosporium labacinum /Plectosphaerella cucumerina [*]Pilectosporium BlightPlytophthora capsici[*]                                                                                                                                           |                                       |                                                                                                                                         |
| EutypaEutypa lata[*]Fire BlightErwinia amylovora[*]FlyspeckSchizothyrium poni[*]Fruit Brown RotMonilinia futicola[*]Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp.[*]: Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Leaf BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf KustPucciniastrum vaccinia[*]Leaf SpotAlternaria spp.[*]: Cercospora spp.[*]: Entomosporiumspp.[*]: Myrothecium spp.[*]: Drochslera spp.[*]Melting Out Leaf SpotBipolaris spp.[*]: Drechslera spp.[*]Mummy BerryMonilinia vaccinic-corymbosi[*]Nuerotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis spp.[*]Pink RotSclerotinia sclerotirum[*]Pink RotSclerotinia sclerotirum[*]Pink RotSclerotinia sclerotirum[*]Pink RotSclerotinia sclerotirum[*]Pink RotPlectosporium tabacinum /Plectosphaerella cucumerina [*]Pinctosprium BlightPlectosporium tabacinum /Plectosphaerella cucumerina [*]                                                                                                                                                                                   |                                       | Phaeoacremonium spp.[*]; Phaeomoniella spp.[*]                                                                                          |
| Fire BlightErwinia amylovora[*]FlyspeckSchizothyrium pomi[*]Fruit Brown RotMonilinia fruitcola[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp.[*]: Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf KustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotSpp.[*]: Monilinia spp.[*]: Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]: Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Onion Purple BlothAlternaria ppr.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis spp.[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum /Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                |                                       | Eutypa lata[*]                                                                                                                          |
| Flyspeck       Schizothyrium pom[[*]         Fruit Brown Rot       Monilinia fruticola[*]         Fusarium Patch       Fusarium nivale[*]         Gray Leaf Spot       Pyricularia grisea[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gurany Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp. [*]; Monilinia spp.[*]         Jacket Rot / Green Fruit Rot       Disease Complex[*]         Late Blight       Phytophthora infestans[*]         Leaf Curl       Taphrina deformans[*]         Leaf Rust       Pucciniastrum vaccinia[*]         Leaf Rust       Pucciniastrum vaccina[*]         Leaf Spot       Alternaria spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]         Melting Out Leaf Spot       Bipolaris spp.[*]; Drechslera spp.[*]         Mummy Berry       Monilinia vaccinii-corymbosi[*]         Necrotic Ring Spot       Leptosphaeria korrae[*]         Olive Knot       Pseudomonas savastanoi pv. savastanoi [*]         Onion Purple Blotch       Alternaria spp.[*]         Phomopsis       Phomopsis spp.[*]         Pin Rot       Alternaria spp.[*]         Pin                                                                           |                                       |                                                                                                                                         |
| Fruit Brown RotMonilinia fruitcola[*]Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf KustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Septoria spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Melting Out Leaf SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Ploctosporium BlightPhytophthora capsici[*]Pink Snow MoldMicrodochium nivale[*]Ploctosporium BlightPlottophthora capsici[*]Plottophthora BlightPlottophthora capsici[*]Plottophthora BlightPlottopprium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                               |                                       |                                                                                                                                         |
| Fusarium PatchFusarium nivale[*]Gray Leaf SpotPyricularia grisea[*]Gray Mold / Bud RotBotrytis spp.[*]Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotPhytophthora alightPhytophthora BlightPhytophthora capsci[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                      |                                       |                                                                                                                                         |
| Gray Leaf Spot       Pyricularia grisea[*]         Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Snow Mold       Typhula spp.[*]         Gummy Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp. [*]; Monilinia spp.[*]         Jacket Rot / Green Fruit Rot       Disease Complex[*]         Late Blight       Phytophthora infestans[*]         Leaf Curl       Taphrina deformans[*]         Leaf Kust       Pucciniastrum vaccinia[*]         Leaf Scorch       Diplocarpum earliana[*]         Leaf Spot       Alternaria spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]         Melting Out Leaf Spot       Bipolaris spp.[*]; Myrothecium spp.[*]         Mummy Berry       Monilinia vaccinii-corymbosi[*]         Necrotic Ring Spot       Leptosphaeria korrae[*]         Olive Knot       Pseudomonas savastanoi pv. savastanoi [*]         Onion Purple Blotch       Alternaria spp.[*]         Pecan Scab       Cladosporium carygenium[*]         Phomopsis       Phomopsis spp.[*]         Pin Rot       Alternaria sclerotiorum[*]         Pink Rot       Sclerotinia sclerotiorum[*]         Pink Rot       Sclerotina sclerotiorum[*]         Pink Rot       Sclerotina sclerotiorum[*]                                                                              | Fusarium Patch                        |                                                                                                                                         |
| Gray Mold / Bud Rot       Botrytis spp.[*]         Gray Snow Mold       Typhula spp.[*]         Gummy Stem Blight       Didymella bryoniae[*]         Hull Rot       Rhizopus spp. [*]; Monilinia spp.[*]         Jacket Rot / Green Fruit Rot       Disease Complex[*]         Late Blight       Phytophthora infestans[*]         Leaf Curl       Taphrina deformans[*]         Leaf Curl       Taphrina deformans[*]         Leaf Rust       Pucciniastrum vaccinia[*]         Leaf Rust       Pucciniastrum vaccinia[*]         Leaf Scorch       Diplocarpum earliana[*]         Leaf Spot       Alternaria spp.[*]; Cercospora spp.[*]; Entomosporium spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]         Melting Out Leaf Spot       Bipolaris spp.[*]; Drechslera spp.[*]         Mummy Berry       Monilinia vaccinii-corymbosi[*]         Necrotic Ring Spot       Leptosphaeria korrae[*]         Olive Knot       Pseudomonas savastanoi pv. savastanoi [*]         Olive Knot       Cladosporium carygenium[*]         Phomopsis       Phomopsis spp.[*]         Phomopsis       Phomopsis spp.[*]         Pin Rot       Alternaria spp.[*]         Pink Rot       Sclerotinia sclerotiorum[*]         Pink Rot       Sclerotinia sclerotiorum[*]         Pink Rot                                                                                     | Gray Leaf Spot                        |                                                                                                                                         |
| Gray Snow MoldTyphula spp.[*]Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]Phin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotPhytophthora capsici[*]Pictosporium BlightPhytophthora capsici[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |                                                                                                                                         |
| Gummy Stem BlightDidymella bryoniae[*]Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]Pecan ScabCladosporium carygenium[*]Phin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotPhytophthora capsici[*]Pink RotBightPhytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                                                                                                                                         |
| Hull RotRhizopus spp. [*]; Monilinia spp.[*]Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink RotPhytophthora capsici[*]Pictosporium BlightPhytophthora capsici[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | · · · · · · · · · · · · · · · · · · · |                                                                                                                                         |
| Jacket Rot / Green Fruit RotDisease Complex[*]Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria spp.[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                                                                                                                                         |
| Late BlightPhytophthora infestans[*]Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsci[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                | Jacket Rot / Green Fruit Rot          |                                                                                                                                         |
| Leaf CurlTaphrina deformans[*]Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Photopshori BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |                                                                                                                                         |
| Leaf MoldFulvia fulva / Passalora fulva[*]Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]Pink RotSclerotinia spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                                                                                                                                         |
| Leaf RustPucciniastrum vaccinia[*]Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Leaf Mold                             |                                                                                                                                         |
| Leaf ScorchDiplocarpum earliana[*]Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink RotSclerotinia sclerotiorum[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                                                                                                                                         |
| Leaf SpotAlternaria spp.[*]; Cercospora spp.[*]; Entomosporium<br>spp.[*]; Myrothecium spp.[*]; Septoria spp.[*]Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Leaf Scorch                           |                                                                                                                                         |
| Melting Out Leaf SpotBipolaris spp.[*]; Drechslera spp.[*]Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Leaf Spot                             | Alternaria spp.[*]; Cercospora spp.[*]; Entomosporium                                                                                   |
| Mummy BerryMonilinia vaccinii-corymbosi[*]Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Melting Out Leaf Spot                 |                                                                                                                                         |
| Necrotic Ring SpotLeptosphaeria korrae[*]Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mummy Berry                           |                                                                                                                                         |
| Olive KnotPseudomonas savastanoi pv. savastanoi [*]Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       | Leptosphaeria korrae[*]                                                                                                                 |
| Onion Purple BlotchAlternaria porri[*]Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                         |
| Pecan ScabCladosporium carygenium[*]PhomopsisPhomopsis spp.[*]Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Onion Purple Blotch                   |                                                                                                                                         |
| Phomopsis       Phomopsis spp.[*]         Pin Rot       Alternaria spp.[*]         Pink Patch       Limonomyces roseipellis[*]         Pink Rot       Sclerotinia sclerotiorum[*]         Pink Snow Mold       Microdochium nivale[*]         Phytophthora Blight       Phytophthora capsici[*]         Plectosporium Blight       Plectosporium tabacinum / Plectosphaerella cucumerina [*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                                                                                                                                         |
| Pin RotAlternaria spp.[*]Pink PatchLimonomyces roseipellis[*]Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Phomopsis                             | 1 10 11                                                                                                                                 |
| Pink Patch       Limonomyces roseipellis[*]         Pink Rot       Sclerotinia sclerotiorum[*]         Pink Snow Mold       Microdochium nivale[*]         Phytophthora Blight       Phytophthora capsici[*]         Plectosporium Blight       Plectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                                                                                                                                         |
| Pink RotSclerotinia sclerotiorum[*]Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pink Patch                            |                                                                                                                                         |
| Pink Snow MoldMicrodochium nivale[*]Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pink Rot                              |                                                                                                                                         |
| Phytophthora BlightPhytophthora capsici[*]Plectosporium BlightPlectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pink Snow Mold                        |                                                                                                                                         |
| Plectosporium Blight         Plectosporium tabacinum / Plectosphaerella cucumerina [*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Phytophthora Blight                   |                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                         |
| Powdery Mildewspp.[*]; Oidium spp.[*]; Podosphaera spp.[*];Sphaerotheca spp.[*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       | <i>Erysiphe</i> spp.[*]; <i>Leveillula taurica</i> [*]; <i>Microsphaera</i> spp.[*]; <i>Oidium</i> spp.[*]; <i>Podosphaera</i> spp.[*]; |

| Pythium Blight / Root Rot       | <i>Pythium</i> spp.[*]                                            |
|---------------------------------|-------------------------------------------------------------------|
| Ramularia                       | Ramularia spp.[*]                                                 |
| Red Thread                      | Laetisaria fuciformis[*]                                          |
| Rhizoctonia                     | Rhizoctonia solani[*]                                             |
| Rusts[*]                        | Puccinia spp. and others[*]                                       |
| Rusty Spot                      | Podosphaera leucotricha[*]                                        |
| Scab                            | Venturia spp.[*]                                                  |
| Sclerotinia                     | Sclaerotinia spp.[*]                                              |
| Shot Hole                       | <i>Wilsonomyces carpophilus</i> [*]; <i>Xanthomonas pruni</i> [*] |
| Sooty Blotch                    | Sooty Blotch Disease complex[*]                                   |
| Sooty Mold                      | Pathogens belonging to the Order <i>Dothiodeales</i> [*]          |
| Sour Rot                        | Sour rot complex[*]                                               |
| Southern Blight                 | Sclerotium rolfsii[*]                                             |
| Spring Dead Spot                | Leptosphaeria korrae[*]; Leptosphaeria narmari[*];                |
|                                 | Ophiosphaerella herpotricha[*]                                    |
| Stemphylium Leaf Blight / Stalk | Stemphylium vesicarium[*]                                         |
| Rot                             |                                                                   |
| Stripe Smut                     | Ustilago striiformis[*]; Urocystis agropyri[*]                    |
| Summer Bunch Rot                | Aspergillus spp.[*]; Alternaria spp.[*]; Cladosporium             |
|                                 | <pre>spp.[*]; Penicillium spp.[*]; Rhizopus spp.[*]</pre>         |
| Summer Patch / Poa Patch        | Magnaporthe poae[*]                                               |
| Take-all Root Rot               | Gaeumannomyces graminis[*]                                        |
| Target Spot                     | Corynespora cassiicola[*]                                         |
| Walnut Blight                   | Xanthomonas campestris[*]                                         |
| Watery Soft Rot                 | Sclerotinia spp.[*]                                               |
| White Mold                      | Sclerotinia sclerotiorum[*]                                       |
| White Rot                       | Sclerotium cepivorum[*]                                           |
| Xanthomonas Leaf Spot           | Xanthomonas campestris[*]                                         |
| Yellow Patch                    | Rhizoctonia cerealis[*]                                           |
| Yellow Tuft / Downy Mildew      | Sclerophthora macrospora[*]                                       |

#### **Storage and Disposal**

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

**Pesticide Storage: Keep container tightly closed when not in use.** This product consists of living microbes. Place in a cool, dry place, do not exceed 95°F (35°C). Do not freeze. Tightly close opened package.

**Pesticide Disposal and Container Handling:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in accordance with accompanying directions.

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