

Project Name: Fungicide Crop Safety – New Products

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|-----|---------|---|-----------|--|---|
| New | Ongoing | X | Completed | | Duration if ongoing or completed: 2010-2019 |
|-----|---------|---|-----------|--|---|

Project Description:

While labels allowing the use of fungicides generally on ornamental horticulture crops is fairly common, developing crop safety data is still critical to support these 'open' labels. Many labels list the tested crops along with the plant type as well as any crops that might be injured after application. From 2010 through 2019, IR-4 has tested several new fungicides to verify and expand the screened crops.

Research Project Abstract (if available):

Abstract from 2015 Benzovindiflupyr + Azoxystrobin Crop Safety Summary

In 2013, as part of the crop safety screening for new active ingredients and recently registered fungicides, IR-4 started testing Mural WDG (benzovindiflupyr + azoxystrobin) for safety on several ornamental horticulture crops. During 2013 to 2017, the IR-4 Project completed 78 trials on 27 ornamental plant genera or species examining phytotoxicity related to foliar and/or drench applications. In these trials, no injury was observed on any species or genera. If a list of tested plants is placed on the Mural WDG label, 15 of the IR-4 screened plants can be added to the EPA label based on having 3 or more completed trials: *Aquilegia* sp., *Buddleia davidii*, *Buxus* sp., *Calibrachoa* sp., *Camellia* sp., *Dianthus* sp., *Helianthus* sp., *Heuchera* sp., *Juniperus* sp., *Lamium* sp., *Lavandula* sp., *Monarda* sp., *Osteospermum* sp., *Rhaphiolepis* sp., and *Scindapsus aureus*.

Abstract from 2020 F6123 Crop Safety Summary

F6123 is a new fungicide being developed by FMC for the control of powdery mildew, rusts, scab, black spot (*Diplocarpon rosae*), and other foliar diseases. The IR-4 Project completed 25 crop safety trials on 13 environmental horticulture plant species or genera during 2019 to 2020. At this time, sufficient information has not yet been generated for reliable conclusions on F6123 crop safety. In these limited number of trials, F6123 applied foliar caused minimal or no injury in 12 species or genera; however, drench application caused significant injury in 8 species or genera.

Abstract from 2019 Fluxapyroxad + Pyraclostrobin Crop Safety Summary

The IR-4 Project screens new active ingredients for potential deleterious impacts to aid growers in selection of appropriate disease management tools for their crops. From 2014 to 2018, IR-4 completed 78 trials on 34 environmental horticulture plant species examining phytotoxicity related to foliar applications of Orkestra (fluxapyroxad + pyraclostrobin). During 2016 and 2018, an additional 15 trials were conducted using drench application on 9 crops. In these trials, 17 species or genera exhibited minimal or no injury after foliar applications in a minimum of 3 trials for each crop. Thirteen of these are already on the current label for this active ingredient; the other four (*Aquilegia* sp., *Hemerocallis* sp., *Picea* sp. and *Pinus* sp.) can be added to a list of tolerant plants in the current label. Only two plant species (*Cornus florida* and *Impatiens hawkeri*) exhibited significant injury in one study. All trials for 13 other species or genera exhibited no or minimal injury in the limited number of trials (one or two) for each crop. Four of these are already in the current label; BASF can consider adding the other nine to the label. Drench application caused no significant phytotoxicity on all crops tested.

Abstract from 2020 Fluopyram Crop Safety Summary

Indemnify (fluopyram) is a new fungicide being developed by Bayer for the control of nematodes; the current product is only registered for turf uses. The IR-4 Project has completed 37 crop safety trials on 18 environmental horticulture plant species or genera. Two crops (begonia, petunia) exhibited differential responses between foliar and drench applications with no to slight injury observed with foliar sprays, but moderate to severe injury with soil drenches. Four additional crops also did not exhibit injury after foliar or soil

applications. Additional data are needed for 12 other crops (including foliar application on petunia) are needed for a definitive conclusion on crop safety.

Abstract from 2021 Mefentrifluconazole Crop Safety Summary

Mefentrifluconazole is a new fungicide being developed by BASF for the control of foliar diseases of environmental horticulture crops. The IR-4 Project completed 24 crop safety trials on 15 environmental horticulture plant species or genera during 2019 to 2020. In these trials, no significant impacts were observed in data received so far for these crops.

Abstract from 2020 Mono Dipotassium Phosphorus Acid + Hydrogen Peroxide Crop Safety Summary

OxiPhos (Mono and di potassium salts of phosphorus acid + hydrogen peroxide) is labeled for managing oomycetes (downy mildew, Phytophthora and Pythium pathogens) and diseases caused by certain bacterial pathogens. While the label does list specific crops, additional screenings were needed to broaden this list. The IR-4 Project completed 23 crop safety trials on 11 environmental horticulture plant species or genera during 2016 to 2019. No injury was observed on azalea and rose; these two crops can be added to the list of crops previously tested for crop safety. For the remaining nine crops, more information is needed either because only 1 or 2 trials were conducted or because consistent results were not achieved across research sites.

Abstract from 2017 Oxathiapiprolin Crop Safety Summary

Oxathiapiprolin was registered as Segovis in the United States in 2017 for disease control on ornamental horticulture plants in greenhouse and nurseries. The commercial label contains a general list of 17 crop groups that cover virtually all ornamental crops. During 2015 and 2016, the IR-4 Project completed 19 trials on 18 ornamental plant species or genera examining phytotoxicity related to drench applications of Segovis. In these trials, all species or genera exhibited minimal or no injury after drench applications. These results confirm the crop safety for Segovis.

Abstract from 2020 Pydiflumetofen Crop Safety Summary

Pydiflumetofen is a new fungicide being developed by Syngenta for the control of leaf spots (*Septoria*, *Cercospora*, *Alternaria*, *Venturia*), powdery mildew, *Fusarium*, *Botrytis*, *Sclerotinia*, *Corynespora*, and other foliar diseases. The IR-4 Project completed 61 crop safety trials on 22 ornamental horticulture plant species or genera during 2015 to 2019. In these trials, all 22 species or genera exhibited minimal or no injury. Ten genera exhibited minimal or no injury in 3 trials and 12 species or genera exhibited minimal or no injury in the limited number of trials (one or two) for each crop. Syngenta may consider adding these to the label.

Abstract from 2021 Pydiflumetofen Crop Safety Summary

Pydiflumetofen + Difenoconazole is a new fungicide being developed by Syngenta for the control of foliar diseases of ornamental horticulture crops. The IR-4 Project completed 20 crop safety trials on 26 ornamental horticulture plant species or genera during 2019 to 2020. In these trials, 10 species or genera exhibited minimal or no injury in the limited number of trials (two) for each crop. Syngenta may consider adding these to the label.

Abstract from 2019 SP2700 Crop Safety Summary

SP2700 is a new fungicide being developed by SePro for the control of diseases on ornamentals such as *Alternaria*, *Cylindrocladium*, *Fusarium*, *Rhizoctonia*, and *Thielaviopsis*. The IR-4 Project completed 18 crop safety trials on 10 ornamental horticulture plant species or genera from 2018 through 2019. In these trials, two genera or species exhibited minimal or no injury after foliar applications in a minimum of 3 trials for each crop; these can be added to a list of tolerant plants in the new label for this active ingredient. All trials for 8 other species or genera exhibited minimal or no injury in the limited number of trials (one or two) for each crop.

Environmental Horticulture Program Research Project Sheet

<https://www.ir4project.org/ehc/ehc-registration-support-research/env-hort-extension-resources/>

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|---|
| Target Species (Phytotoxicity, or common and Latin name of arthropod, pathogen, weed): |
|---|

Crop Safety

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|---|
| Target Crops (list tested crops if ongoing or completed project) |
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See "IR-4 Crop Safety to Date" below

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|---|
| Target Product(s) (list tested products or numbered compounds if ongoing or completed project) |
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| | |
|---------------------|----------|
| Aveylo (BAS 750 02F | Postiva |
| Broadform | Reklemel |
| F6123 | S2200 |
| Gatten | SP2478 |
| IKF-309 | SP2700WP |
| Indemnify | TDA NC1 |
| Picarbutrazox 20WG | XDE-659 |
| Picarbutrazox SC | |

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|---|
| Product Registration and Research Status |
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| | Registration Status |
|---|---|
| Labeled & Commercialized Wide range of ornamental horticulture crops listed | Aveylo Broadform Indemnify Postiva |
| Labeled & Commercialized Opportunity to add additional ornamental horticulture crops | |
| Labeled But NOT Commercialized Not yet registered or labeled | Picarbutrazox 20WG Picarbutrazox SC Reklemel S2200 SP2478 SP2700WP TDA NC1 XDE-659 |

* IR-4 Data contributed to registration decision – either adding pest to label or not pursuing further research

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|---------------|
| Other: |
|---------------|

| Project Pros | Project Cons |
|---------------------|---------------------|
| 1 | 1 |

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|--|
| IR-4 Crop Safety Trials to Date |
|--|

Average rating on a scale of 1 – 5 with 1 = 0 to about no injury and mortality; minimum to maximum rating; number of trials. A rating of 3 or higher is considered commercially unacceptable (**red text**). A rating of 1 or 2 is considered commercially acceptable and those with more than 3 trials are complete (**green text**). ‘Labeled’ indicates that IR-4 generated data in at least one trial and that this crop is listed on the label. For crop/product combinations that are blank, IR-4 has not screened this combination.

Table 1. Foliar Applications - Set 1.

| Plant Group | Crop | Avelyo (BAS 750 02F) (Mefen-trifluconazole) | F6123 (F6123) | Gatten (Flutianil) | IKF-309 (IKF-309) | Mural WDG (Azoxystrobin + benzovindiflupyr) |
|--|--|---|----------------|--------------------|-------------------|---|
| Broadleaf Evergreen Tree/Shrub | Boxwood (<i>Buxus</i> sp.) | | | | | 1.0 (1 - 1) n2 |
| | Bottlebrush, Crimson (<i>Callistemon citrinus</i>) | 1.0 (1 - 1) n1 | | | | |
| | Camellia (<i>Camellia japonica</i>) | 1.0 (1 - 1) n1 | | | | |
| | Camellia (<i>Camellia</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| | Loropetalum (<i>Loropetalum</i> sp.) | 1.0 (1 - 1) n1 | | | | |
| | Indian Hawthorn (<i>Rhaphiolepis indica</i>) | | | | | 1.0 (1 - 1) n3 |
| Broadleaf Evergreen/Deciduous Tree/Shrub | Barberry (<i>Berberis</i> sp.) | | | | | 1.0 (1 - 1) n1 |
| | Ceanothus (<i>Ceanothus</i> sp.) | | | | | 1.0 (1 - 1) n2 |
| Bulbs & Corms | Dahlia (<i>Dahlia</i> sp.) | | | 1.0 (1 - 1) n1 | | |
| | Daylily (<i>Hemerocallis</i> sp.) | | | | | |
| Deciduous Tree/Shrub/Vine | Butterfly Bush (<i>Buddleia davidii</i>) | | | | | 1.0 (1 - 1) n4 |
| | Burning Bush (<i>Euonymus alatus</i>) | 1.0 (1 - 1) n1 | | | | |
| | Hydrangea (<i>Hydrangea</i> sp.) | | | 1.0 (1 - 1) n4 | | 1.5 (1 - 3) n4 |
| | Crape Myrtle (<i>Lagerstroemia indica</i>) | 1.0 (1 - 1) n1 | | | | |
| | Rose (<i>Rosa</i> sp.) | | 1.0 (1 - 1) n1 | 1.3 (1 - 2) n3 | | |
| Hardy Ground Cover Foliage | Periwinkle (<i>Vinca</i> sp.) | | | 1.0 (1 - 1) n1 | | |
| Herbaceous Flowering Plant | Daisy/Chrysanthemum (<i>Chrysanthemum</i> sp.) | | | 1.0 (1 - 1) n1 | | |
| | Dead Nettle (<i>Lamium</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (<i>Antirrhinum majus</i>) | | 2.0 (2 - 2) n1 | | | |
| Herbaceous Flowering Plant - Annual | Clubbed Begonia (<i>Begonia semperflorens</i>) | | 2.0 (2 - 2) n1 | | | |
| | Begonia (<i>Begonia</i> sp.) | | | 1.0 (1 - 1) n1 | 1.5 (1 - 2) n2 | |
| | Calibrachoa (<i>Calibrachoa</i> sp.) | | | | | 1.0 (1 - 1) n5 |
| | Dahlia Hybrids (<i>Dahlia x hortensis</i>) | | 1.0 (1 - 1) n1 | | | |
| | Poinsettia (<i>Euphorbia pulcherrima</i>) | | | | 1.0 (1 - 1) n1 | |
| | Barberton Daisy (<i>Gerbera jamesonii</i>) | | 3.0 (3 - 3) n1 | | | |
| | Transvaal Daisy (<i>Gerbera</i> sp.) | | | 1.0 (1 - 1) n3 | | |
| | Sunflower (<i>Helianthus</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| | Impatiens, New Guinea (<i>Impatiens hawkeri</i>) | | | | 1.0 (1 - 1) n1 | |

| Plant Group | Crop | Avelyo (BAS 750 02F) (Mefen-trifluconazole) | F6123 (F6123) | Gatten (Flutianil) | IKF-309 (IKF-309) | Mural WDG (Azoxystrobin + benzovindiflupyr) |
|--|---|---|----------------|--------------------|-------------------|---|
| | Impatiens, Common Garden; Buzzy Lizzy (<i>Impatiens walleriana</i>) | | | | 1.0 (1 - 1) n1 | |
| | Daisybush (<i>Osteospermum</i> sp.) | | | | | 1.0 (1 - 1) n2 |
| | Geranium, Zonal (<i>Pelargonium x hortorum</i>) | | 3.0 (3 - 3) n1 | | 1.0 (1 - 1) n2 | |
| | Petunia (<i>Petunia</i> sp.) | | | | | |
| | Petunia (<i>Petunia x hybrida</i>) | | 1.0 (1 - 1) n1 | | 1.5 (1 - 2) n2 | |
| | African Violet (<i>Saintpaulia ionantha</i>) | | | 3.0 (3 - 3) n1 | | |
| | Common Sage (<i>Salvia officinalis</i>) | | | | | 1.0 (1 - 1) n1 |
| | Marigold, African (<i>Tagetes erecta</i>) | | 1.0 (1 - 1) n1 | | 1.0 (1 - 1) n1 | |
| | Marigold, French (<i>Tagetes patula</i>) | | 1.0 (1 - 1) n1 | | 1.0 (1 - 1) n1 | |
| | Pansy, Large Flowering; Wittrock's Violet (<i>Viola X witrockiana</i>) | | 2.0 (2 - 2) n1 | 1.0 (1 - 1) n1 | 1.5 (1 - 2) n2 | |
| | Zinna, Elegant (<i>Zinnia elegans</i>) | | 1.0 (1 - 1) n1 | | | |
| | Zinna (<i>Zinnia</i> sp.) | | | 1.0 (1 - 1) n1 | | |
| Herbaceous Flowering Plant - Annual/Biennial/Peren | Sage (<i>Salvia</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| Herbaceous Flowering Plant - Perennial | Columbine (<i>Aquilegia</i> sp.) | | | | | 1.0 (1 - 1) n4 |
| | Aster (<i>Aster</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| | False Goat's Beard (<i>Astilbe</i> sp.) | 1.0 (1 - 1) n1 | | | | |
| | Tickseed (<i>Coreopsis</i> sp.) | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n2 | | |
| | Siberian Lackspur (<i>Delphinium grandiflorum</i>) | | 1.0 (1 - 1) n1 | | | |
| | Cheddar Pink (<i>Dianthus gratianopolitanus</i>) | | | | 1.0 (1 - 1) n2 | |
| | Pink (<i>Dianthus</i> sp.) | | | | | 1.0 (1 - 1) n4 |
| | Blanket Flower (<i>Gaillardia x grandiflora</i>) | 1.0 (1 - 1) n1 | | | | |
| | Sunflower, Maximilian (<i>Helianthus maximiliani</i>) | 1.0 (1 - 1) n1 | | | | |
| | Alumroot (<i>Heuchera</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| | Rosemallow (<i>Hibiscus</i> sp.) | | | | | 1.0 (1 - 1) n3 |
| | Bee Balm, Scarlet (<i>Monarda didyma</i>) | 1.0 (1 - 1) n1 | | | | 1.0 (1 - 1) n3 |
| | Phlox, Fall (<i>Phlox paniculata</i>) | 1.0 (1 - 1) n1 | | | | 1.0 (1 - 1) n3 |
| | Phlox (<i>Phlox</i> sp.) | | 1.0 (1 - 1) n2 | | | |
| | Coneflower, Orange, var. speciosa (<i>Rudbeckia fulgida</i> var. speciosa) | | 1.0 (1 - 1) n2 | | | |
| | Woodland Sage (<i>Salvia nemorosa</i>) | | | | 1.0 (1 - 1) n1 | |

| Plant Group | Crop | Avelyo (BAS 750 02F) (Mefen-trifluconazole) | F6123 (F6123) | Gatten (Flutianil) | IKF-309 (IKF-309) | Mural WDG (Azoxystrobin + benzovindiflupyr) |
|--|--|---|---------------|--------------------|-------------------|---|
| Herbaceous Flowering Plant - Perennial | Vervain (Verbena sp.) | 1.0 (1 - 1) n2 | | | | |
| Herbaceous Perennials | Lavender (Lavandula sp.) | | | | | 1.0 (1 - 1) n5 |
| | Rosemary (Rosmarinus officinalis) | 1.0 (1 - 1) n1 | | | | |
| Narrowleaf Evergreen Tree/Shrub | Fir (Abies sp.) | | | | | 1.0 (1 - 1) n3 |
| | Leyland Cypress (Cuprocyparis leylandii) | 1.0 (1 - 1) n1 | | | | |
| | Juniper (Juniperus sp.) | 1.0 (1 - 1) n2 | | | | 1.0 (1 - 1) n3 |
| Palm | Palm, Mediterranean Fan; Dwarf Fan Palm (Chamaerops humilis) | | | | | 1.0 (1 - 1) n1 |
| Tropical Foliage Plant | Aglaonema (Aglaonema sp.) | | | | | 1.0 (1 - 1) n3 |
| | Devil's Ivy (Epipremnum pinnatum) | | | | | 1.0 (1 - 1) n2 |
| | Coleus (Solenostemon sp.) | | | | 1.0 (1 - 1) n1 | |

Table 2. Foliar Applications - Set 2.

| Plant Group | Crop | NF-149 (Cyflufenamid) | Orkestra (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picarbutrazox 20WG (Picarbutrazox) | Picarbutrazox SC (NF-171) (Picarbutrazox) |
|-------------------------------------|--|-----------------------|--|-----------------------|------------------------------------|---|
| Broadleaf Evergreen Tree/Shrub | Azalea (Rhododendron sp.) | MFG Hold | | 1.0 (1 - 1) n3 | | |
| | Magnolia (Magnolia sp.) | | 1.0 (1 - 1) n1 | | | |
| Bulbs & Corms | Daylily (Hemerocallis sp.) | | 1.7 (1 - 3) n3 | | | |
| Deciduous Tree/Shrub/Vine | Dogwood (Cornus sp.) | | 1.8 (1 - 4) n4 | | | |
| | Hydrangea (Hydrangea sp.) | MFG Hold | 1.8 (1 - 3) n4 | | | |
| | Apple (Malus sp.) | | 1.0 (1 - 1) n1 Labeled | | | |
| | Oak (Quercus sp.) | | 1.0 (1 - 1) n1 Labeled | | | |
| | Rose (Rosa sp.) | MFG Hold | 1.0 (1 - 1) n3 | 2.0 (1 - 3) n2 | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n2 |
| | Elm (Ulmus sp.) | | 1.3 (1 - 2) n3 | | | |
| | Arrowwood (Viburnum sp.) | | | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| Hardy Ground Cover Foliage | Periwinkle (Vinca sp.) | | 1.0 (1 - 1) n3 | | | |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (Antirrhinum majus) | MFG Hold | | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| | Calibrachoa (Calibrachoa sp.) | MFG Hold | | | | |
| | Periwinkle, Madagascar (Catharanthus roseus) | | 1.0 (1 - 1) n3 | | | |

| Plant Group | Crop | NF-149 (Cyflufenamid) | Orkestra (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picarbutrazox 20WG (Picarbutrazox) | Picarbutrazox SC (NF-171) (Picarbutrazox) |
|--|--|--------------------------|---|----------------|--|---|
| Herbaceous Flowering Plant - Annual | Coleus, Flamenettle (<i>Coleus</i> sp.) | | | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n2 |
| | Poinsettia (<i>Euphorbia pulcherrima</i>) | | | 3.0 (2 - 4) n2 | | |
| | Transvaal Daisy (<i>Gerbera</i> sp.) | | 1.0 (1 - 1) n1 | 1.5 (1 - 2) n2 | | |
| | Impatiens, New Guinea (<i>Impatiens hawkeri</i>) | | 3.0 (1 - 4) n3 | | 1.3 (1 - 2) n3 | 1.5 (1 - 2) n2 |
| | Impatiens, Common Garden; Buzzy Lizzy (<i>Impatiens walleriana</i>) | | 2.0 (2 - 2) n1 Labeled | | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 |
| | Lantana (<i>Lantana</i> sp.) | | 1.0 (1 - 1) n3 | | | |
| | Daisybush (<i>Osteospermum</i> sp.) | MFG Hold | 1.0 (1 - 1) n1 | | | |
| | Geranium, Zonal (<i>Pelargonium x hortorum</i>) | | 1.0 (1 - 1) n2 | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| | Petunia (<i>Petunia</i> sp.) | MFG Hold | | 1.0 (1 - 1) n1 | | |
| | Scarlet Sage (<i>Salvia splendens</i>) | | | | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n2 |
| | Violet (<i>Viola</i> sp.) | MFG Hold | 1.0 (1 - 1) n1 Labeled | | | |
| | Pansy, Large Flowering; Wittrock's Violet (<i>Viola X witrockiana</i>) | | 1.3 (1 - 2) n3 | 2.0 (2 - 2) n1 | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| | Zinnia (<i>Zinnia</i> sp.) | MFG Hold | 1.0 (1 - 1) n4 | | | |
| Herbaceous Flowering Plant - Annual/Biennial/Peren | Sage (<i>Salvia</i> sp.) | | 1.0 (1 - 1) n2 | | | |
| Herbaceous Flowering Plant - Perennial | Columbine (<i>Aquilegia</i> sp.) | | 1.5 (1 - 3) n4 | | | |
| | Aster (<i>Aster</i> sp.) | | | | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 |
| | Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) | 1.0 (1 - 1) n3 | | | | |
| | Tickseed (<i>Coreopsis</i> sp.) | | 1.0 (1 - 1) n1 Labeled | | | |
| | Pink (<i>Dianthus</i> sp.) | | 1.0 (1 - 1) n4 | | | |
| | Max Chrysanthemum (<i>Leucanthemum maximum</i>) | | 1.0 (1 - 1) n3 | | | |
| | Daisy, Shasta (<i>Leucanthemum x superbum</i>) | | 3.0 (3 - 3) n2 Labeled | | | |
| | Lupine (<i>Lupinus</i> sp.) | | 1.0 (1 - 1) n3 | | | |
| | Cinquefoil (<i>Potentilla</i> sp.) | | | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| | Black-Eyed Susan (<i>Rudbeckia hirta</i>) | | | | 1.3 (1 - 2) n3 | 1.0 (1 - 1) n3 |
| | Woodland Sage (<i>Salvia nemorosa</i>) | | | | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n2 |

| Plant Group | Crop | NF-149 (Cyflufenamid) | Orkestra (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picarbutrazox 20WG (Picarbutrazox) | Picarbutrazox SC (NF-171) (Picarbutrazox) |
|--|--|--------------------------|---|----------------|--|---|
| Herbaceous Flowering Plant - Perennial | Vervain (Verbena sp.) | | 2.0 (1 - 5) n4 | | | |
| Narrowleaf Evergreen Tree/Shrub | Spruce (Picea sp.) | | 1.0 (1 - 1) n3 | | | |
| | Pine (Pinus sp.) | | 1.0 (1 - 1) n3 | | | |
| | Fir, Douglas (Pseudotsuga menziesii) | MFG Hold | 1.0 (1 - 1) n3 | | | |
| Palm | Palm, Mediterranean Fan; Dwarf Fan Palm (Chamaerops humilis) | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | | |

Table 3. Foliar Applications - Set 3.

| Plant Group | Crop | Picatina (Pydiflumetofen) | Postiva (pydiflumetofen + difenoconazole) | S2200 4SC (Mandestrobin) | Segovis (Oxathiapiprolin) |
|-------------------------------------|---|------------------------------|--|-----------------------------|------------------------------|
| Deciduous Tree/Shrub/Vine | Hydrangea (Hydrangea sp.) | | 1.0 (1 - 1) n3 | | |
| | Rose (Rosa sp.) | | 1.0 (1 - 1) n2 | | |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (Antirrhinum majus) | 1.0 (1 - 1) n4 | | 1.0 (1 - 1) n3 | |
| | Clubbed Begonia (Begonia semperflorens) | | 1.0 (1 - 1) n1 | | |
| | Begonia (Begonia sp.) | 1.0 (1 - 1) n3 | | 1.7 (1 - 3) n3 | |
| | Calibrachoa (Calibrachoa sp.) | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | |
| | Cockscomb, Wool Flower (Celosia sp.) | | 1.0 (1 - 1) n1 | | |
| | Poinsettia (Euphorbia pulcherrima) | 1.0 (1 - 1) n2 | | 1.5 (1 - 2) n2 | |
| | Transvaal Daisy (Gerbera sp.) | 1.0 (1 - 1) n3 | | 1.0 (1 - 1) n2 | |
| | Impatiens, New Guinea (Impatiens hawkeri) | 2.0 (2 - 2) n1 Labeled | 2.5 (1 - 4) n2 | 1.0 (1 - 1) n1 | |
| | Impatiens, Common Garden; Buzzy Lizzy (Impatiens walleriana) | 1.5 (1 - 2) n2 | 2.0 (1 - 3) n2 | | |
| | Daisybush (Osteospermum sp.) | 1.0 (1 - 1) n1 Labeled | | 1.0 (1 - 1) n1 | |
| | Geranium, Zonal (Pelargonium x hortorum) | 1.0 (1 - 1) n3 | 1.5 (1 - 2) n2 | 1.0 (1 - 1) n2 | |
| | Petunia (Petunia sp.) | 1.3 (1 - 2) n3 | | 1.7 (1 - 2) n3 | |
| | Petunia (Petunia x hybrida) | | 1.0 (1 - 1) n1 | | |
| | Violet (Viola sp.) | 1.0 (1 - 1) n1 Labeled | | 1.0 (1 - 1) n1 | |
| | Pansy, Large Flowering; Wittrock's Violet (Viola X wittrrockiana) | 1.0 (1 - 1) n3 | 1.0 (1 - 1) n2 | 1.5 (1 - 3) n4 | |

| Plant Group | Crop | Picatina (Pydiflumetofen) | Postiva (pydiflumetofen + difenoconazole) | S2200 4SC (Mandestrobin) | Segovis (Oxathiapiprolin) |
|--|--|------------------------------|--|-----------------------------|------------------------------|
| Herbaceous Flowering Plant - Annual/Biennial/Peren | Sage (Salvia sp.) | 1.0 (1 - 1) n2 | | 1.0 (1 - 1) n1 | |
| Herbaceous Flowering Plant - Perennial | Madwort (Alyssum sp.) | 1.0 (1 - 1) n1 Labeled | | 1.0 (1 - 1) n1 | |
| | Chrysanthemum, Garden (Chrysanthemum/Dendranthema sp.) | | 1.0 (1 - 1) n2 | | |
| | Hardy Mum (Chrysanthemum/Dendranthema x morifolium) | 1.0 (1 - 1) n2 Labeled | | 1.0 (1 - 1) n1 | |
| | Tickseed (Coreopsis sp.) | 1.0 (1 - 1) n2 Labeled | | 1.0 (1 - 1) n2 | |
| | Pink (Dianthus sp.) | 1.0 (1 - 1) n3 Labeled | | 1.0 (1 - 1) n2 | |
| | Lupine (Lupinus sp.) | 1.0 (1 - 1) n2 | | 1.0 (1 - 1) n1 | |
| | Vervain (Verbena sp.) | 1.0 (1 - 1) n2 | | 1.0 (1 - 1) n1 | |
| Palm | Palm, Mediterranean Fan; Dwarf Fan Palm (Chamaerops humilis) | 1.0 (1 - 1) n1 Labeled | | 1.0 (1 - 1) n1 | |

Table 4. Foliar Applications - Set 4.

| Plant Group | Crop | SP2478 (SP2478) | SP2480 (SP2480) | SP2700 AS (SP2700) | SP2700 WP (SP2700) |
|-------------------------------------|--|--------------------|-----------------------|-----------------------|-----------------------|
| Deciduous Tree/Shrub/Vine | Hydrangea (Hydrangea sp.) | | 1.0 (1 - 1) n3 | 1.0 (1 - 1) n3 | |
| | Rose (Rosa sp.) | | 2.0 (1 - 3) n2 | MFG Hold | |
| Hardy Ground Cover Foliage | Periwinkle, Common (Vinca minor) | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant | Daisy/Chrysanthemum (Chrysanthemum sp.) | | | | 1.0 (1 - 1) n1 |
| Herbaceous Flowering Plant - Annual | Clubed Begonia (Begonia semperflorens) | | | | 1.5 (1 - 2) n2 |
| | Fuschia; Ladies-Eardrops (Fuschia sp.) | | 2.0 (2 - 2) n1 | MFG Hold | |
| | Impatiens, New Guinea (Impatiens hawkeri) | | 2.0 (2 - 2) n1 | MFG Hold | 1.0 (1 - 1) n1 |
| | Impatiens, Common Garden; Buzzy Lizzy (Impatiens walleriana) | | 2.0 (2 - 2) n1 | 1.7 (1 - 2) n3 | 1.0 (1 - 1) n1 |
| | Geranium, Zonal (Pelargonium x hortorum) | | 1.0 (1 - 1) n1 | MFG Hold | |
| | Petunia (Petunia sp.) | | 2.0 (2 - 2) n1 | 1.7 (1 - 2) n3 | |

| Plant Group | Crop | SP2478 (SP2478) | SP2480 (SP2480) | SP2700 AS (SP2700) | SP2700 WP (SP2700) |
|--|---|--------------------|-----------------------|-----------------------|-----------------------|
| Herbaceous Flowering Plant - Annual | Marigold (<i>Tagetes</i> sp.) | | 1.0 (1 - 1) n2 | MFG Hold | |
| | Pansy, Large Flowering; Wittrock's Violet (<i>Viola X wittrockiana</i>) | | 3.0 (3 - 3) n1 | MFG Hold | |
| Herbaceous Flowering Plant - Perennial | Daisy, Shasta (<i>Leucanthemum x superbum</i>) | | 1.0 (1 - 1) n1 | MFG Hold | |
| Tropical Foliage Plant | Dracaena (<i>Dracaena</i> sp.) | | | | 1.0 (1 - 1) n1 |

Table 5. Foliar Applications - Set 5.

| Plant Group | Crop | SP8000 (SP8000) | TDA-NC-1 (TDA) | XDE-659 (XDE-659) | Zio (<i>Pseudomonas chlororaphis</i> strain AFS009) |
|-------------------------------------|---|--------------------|-------------------|-----------------------|--|
| Bulbs & Corms | Dahlia (<i>Dahlia</i> sp.) | | 1.0 (1 - 1) n1 | | |
| | Daylily (<i>Hemerocallis</i> sp.) | | | 1.0 (1 - 1) n3 | |
| Deciduous Tree/Shrub/Vine | Butterfly Bush, Silver (<i>Buddleia alternifolia</i>) | | | 1.0 (1 - 1) n1 | |
| | Hydrangea (<i>Hydrangea</i> sp.) | | | 1.0 (1 - 1) n2 | |
| | Rose (<i>Rosa</i> sp.) | | | 1.0 (1 - 1) n1 | |
| Edibles | Cayenne Pepper (<i>Capsicum annuum</i>) | | 1.0 (1 - 1) n1 | | |
| Fern | Fern, Boston Sword (<i>Nephrolepis exaltata</i>) | | | 1.0 (1 - 1) n1 | |
| Hardy Ground Cover Foliage | Periwinkle, Common (<i>Vinca minor</i>) | 2.0 (2 - 2) n1 | | | |
| Herbaceous Flowering Plant - Annual | Begonia (<i>Begonia</i> sp.) | | 1.0 (1 - 1) n1 | | 1.3 (1 - 2) n3 |
| | Poinsettia (<i>Euphorbia pulcherrima</i>) | | 2.0 (2 - 2) n1 | | MFG Hold |
| | Impatiens, Common Garden; Buzzy Lizzy (<i>Impatiens walleriana</i>) | | | | 1.7 (1 - 3) n3 |
| | Regal Geranium (<i>Pelargonium x domesticum</i>) | | 2.0 (2 - 2) n1 | | |
| | Geranium, Zonal (<i>Pelargonium x hortorum</i>) | | 1.0 (1 - 1) n1 | | MFG Hold |
| Narrowleaf Evergreen Tree/Shrub | Arborvitae, American (<i>Thuja occidentalis</i>) | | | 1.0 (1 - 1) n3 | |
| Tropical Foliage Plant | Jasmine, Confederate (<i>Trachelospermum jasminoides</i>) | | | 1.0 (1 - 1) n1 | |

Table 6. Drench Applications - Set 1.

| Plant Group | Crop | Avelyo (BAS 750 O2F) (Mefentri-fluconazole) | Broadform SC500 (Fluopyram + Trifloxystrobin) | F6123 (F6123) | Heritage (Azoxystrobin) | Medallion (Fludioxonil) |
|--|--|--|--|------------------|----------------------------|----------------------------|
| Broadleaf Evergreen Tree/Shrub | Bottlebrush, Crimson (<i>Callistemon citrinus</i>) | 1.0 (1 - 1) n1 | | | | |
| | Camellia (<i>Camellia japonica</i>) | 1.0 (1 - 1) n1 | | | | |
| Bulbs & Corms | Garlic, Golden (<i>Allium moly</i>) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Montbretia (<i>Crocosmia x crocosmiiflora</i>) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Gladiolus (<i>Gladiolus</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Daylily (<i>Hemerocallis</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |
| Deciduous Tree/Shrub/Vine | Burning Bush (<i>Euonymus alatus</i>) | 1.0 (1 - 1) n1 | | | | |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (<i>Antirrhinum majus</i>) | | | 4.0 (4 - 4) n1 | | |
| | Clubbed Begonia (<i>Begonia semperflorens</i>) | | | 4.0 (4 - 4) n1 | | |
| | Dahlia Hybrids (<i>Dahlia x hortensis</i>) | | | 2.0 (2 - 2) n1 | | |
| | Geranium, Zonal (<i>Pelargonium x hortorum</i>) | | | 4.0 (4 - 4) n1 | | 1.0 (1 - 1) n1 Labeled |
| | Marigold, African (<i>Tagetes erecta</i>) | | | 5.0 (5 - 5) n1 | | |
| | Marigold, French (<i>Tagetes patula</i>) | | | 4.0 (4 - 4) n1 | | |
| | Pansy, Large Flowering; Wittrock's Violet (<i>Viola X witrockiana</i>) | | | 4.0 (4 - 4) n1 | | |
| | Zinna, Elegant (<i>Zinnia elegans</i>) | | | 2.0 (1 - 3) n2 | | |
| Herbaceous Flowering Plant - Perennial | Hardy Mum (<i>Chrysanthemum/Dendranthema x morifolium</i>) | | 1.0 (1 - 1) n1 Labeled | | | |
| | Tickseed (<i>Coreopsis</i> sp.) | 1.0 (1 - 1) n1 | | 1.7 (1 - 3) n3 | | |
| | Siberian Lackspur (<i>Delphinium grandiflorum</i>) | | | 1.0 (1 - 1) n1 | | |
| | Larkspur (<i>Delphinium</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Pink (<i>Dianthus</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Strawberry (Non-Bearing) (<i>Fragaria</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |
| | Max Chrysanthemum (<i>Leucanthemum maximum</i>) | | | | | 1.0 (1 - 1) n1 Labeled |

| Plant Group | Crop | Avelyo (BAS 750 02F) (Mefentri-fluconazole) | Broadform SC500 (Fluopyram + Trifloxystrobin) | F6123 (F6123) | Heritage (Azoxystrobin) | Medallion (Fludioxonil) |
|---------------------------------|---|--|--|----------------|-------------------------|-------------------------|
| | Daisy, Shasta (<i>Leucanthemum x superbum</i>) | | | | | |
| | Phlox, Fall (<i>Phlox paniculata</i>) | 1.0 (1 - 1) n1 | | | | |
| | Phlox (<i>Phlox</i> sp.) | | | 2.3 (1 - 5) n3 | | |
| | Coneflower, Orange, var. speciosa (<i>Rudbeckia fulgida</i>) | | 1.0 (1 - 1) n1 | | | |
| | Coneflower, Orange, var. speciosa (<i>Rudbeckia fulgida</i> var. speciosa) | | | 1.0 (1 - 1) n2 | | |
| | Vervain (<i>Verbena</i> sp.) | 1.0 (1 - 1) n2 | | | | 1.0 (1 - 1) n1 Labeled |
| Herbaceous Perennials | Rosemary (<i>Rosmarinus officinalis</i>) | 1.0 (1 - 1) n1 | | | | |
| Narrowleaf Evergreen Tree/Shrub | Fir (<i>Abies</i> sp.) | | | | 1.0 (1 - 1) n1 Labeled | 1.0 (1 - 1) n1 Labeled |
| | Fir, Douglas (<i>Pseudotsuga menziesii</i>) | | | | 2.0 (2 - 2) n1 Labeled | 2.0 (1 - 3) n2 Labeled |
| | Hemlock, Western (<i>Tsuga heterophylla</i>) | | | | 2.0 (2 - 2) n1 | 3.0 (3 - 3) n1 |
| Ornamental Grass | Fescue (<i>Festuca</i> sp.) | | | | | 1.0 (1 - 1) n1 Labeled |

Table 7. Drench Applications - Set 2.

| Plant Group | Crop | Mural WDG (Azoxystrobin + benzo-vindiflupyr) | Orkestra Intrinsic (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picatina (Pydi-flumetofen) | Postiva (pydi-flumetofen + difeno-conazole) |
|--|-----------------------------------|--|--|----------------|----------------------------|---|
| Broadleaf Evergreen Tree/Shrub | Boxwood (<i>Buxus</i> sp.) | 1.0 (1 - 1) n1 | | | | |
| | Camellia (<i>Camellia</i> sp.) | 1.0 (1 - 1) n1 | | | | |
| | Azalea (<i>Rhododendron</i> sp.) | | | 1.0 (1 - 1) n1 | | |
| Broadleaf Evergreen/Deciduous Tree/Shrub | Barberry (<i>Berberis</i> sp.) | 1.0 (1 - 1) n2 | | | | |
| Deciduous Tree/Shrub/Vine | Dogwood (<i>Cornus</i> sp.) | | 1.0 (1 - 1) n1 | | | |
| | Hydrangea (<i>Hydrangea</i> sp.) | | | | | 1.0 (1 - 1) n1 |
| | Apple (<i>Malus</i> sp.) | | 1.0 (1 - 1) n1 Labeled | | | |

| Plant Group | Crop | Mural WDG (Azoxystrobin + benzo-vindiflupyr) | Orkestra Intrinsic (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picatina (Pydiflumetofen) | Postiva (pydiflumetofen + difenoconazole) |
|--|---|---|---|-----------------------|-------------------------------|---|
| | Rose (Rosa sp.) | | 1.0 (1 - 1) n2 | 2.0 (2 - 2) n1 | | |
| Hardy Ground Cover Foliage | Periwinkle (Vinca sp.) | | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (Antirrhinum majus) | | | 1.0 (1 - 1) n1 | | |
| | Clubbed Begonia (Begonia semperflorens) | | | | | 1.0 (1 - 1) n1 |
| | Begonia (Begonia sp.) | | | | 3.0 (3 - 3) n1 | |
| | Calibrachoa (Calibrachoa sp.) | 2.0 (2 - 2) n1 | | | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 |
| | Coleus, Flamenettle (Coleus sp.) | | | 1.0 (1 - 1) n1 | | |
| | Poinsettia (Euphorbia pulcherrima) | | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | |
| | Transvaal Daisy (Gerbera sp.) | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | |
| Herbaceous Flowering Plant - Annual | Sunflower (Helianthus sp.) | 1.0 (1 - 1) n1 | | | | |
| | Impatiens, New Guinea (Impatiens hawkeri) | | | 1.0 (1 - 1) n1 | 4.0 (4 - 4) n1 Labeled | 1.0 (1 - 1) n1 |
| | Impatiens, Common Garden; Buzzy Lizzy (Impatiens walleriana) | | | | 3.0 (3 - 3) n1 | 1.0 (1 - 1) n1 |
| | Daisybush (Osteospermum sp.) | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 | | 1.0 (1 - 1) n1 Labeled | |
| | Regal Geranium (Pelargonium x domesticum) | | | 1.0 (1 - 1) n1 | | |
| | Geranium, Zonal (Pelargonium x hortorum) | | 2.0 (2 - 2) n2 | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 |
| | Petunia (Petunia sp.) | | | 2.5 (2 - 3) n2 | 1.0 (1 - 1) n1 | |
| | Petunia (Petunia x hybrida) | | | | | 1.0 (1 - 1) n1 |
| | Common Sage (Salvia officinalis) | 1.0 (1 - 1) n1 | | | | |
| | Pansy, Large Flowering; Wittrock's Violet (Viola X witrockiana) | | 1.0 (1 - 1) n1 | 1.0 (1 - 1) n1 | 1.5 (1 - 3) n4 | 1.0 (1 - 1) n1 |
| | Zinnia, Elegant (Zinnia elegans) | | | | | |
| | Zinnia (Zinnia sp.) | | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant - Annual/Biennial/Peren | Sage (Salvia sp.) | | 1.5 (1 - 2) n2 | | 2.0 (2 - 2) n1 | |
| Herbaceous Flowering Plant - Perennial | Chrysanthemum, Garden (Chrysanthemum/Dendranthema sp.) | | | | | 1.0 (1 - 1) n1 |
| | Hardy Mum (Chrysanthemum/Dendranthema x morifolium) | | | | 1.0 (1 - 1) n1 Labeled | |
| | Tickseed (Coreopsis sp.) | | | | 1.0 (1 - 1) n1 Labeled | |

| Plant Group | Crop | Mural WDG (Azoxystrobin + benzo-vindiflupyr) | Orkestra Intrinsic (Fluxapyroxad + pyraclostrobin) | OxiPhos | Picatina (Pydiflumetofen) | Postiva (pydiflumetofen + difenoconazole) |
|---------------------------------|--|---|---|---------|---------------------------|---|
| | Alumroot (Heuchera sp.) | 1.0 (1 - 1) n1 | | | | |
| | Max Chrysanthemum (Leucanthemum maximum) | | 1.0 (1 - 1) n1 | | | |
| | Daisy, Shasta (Leucanthemum x superbum) | | 1.0 (1 - 1) n1 Labeled | | | |
| | Lupine (Lupinus sp.) | | | | 1.0 (1 - 1) n2 | |
| | Vervain (Verbena sp.) | | | | 1.0 (1 - 1) n2 | |
| Narrowleaf Evergreen Tree/Shrub | Juniper (Juniperus sp.) | 1.0 (1 - 1) n1 | | | | |
| | Spruce (Picea sp.) | | 1.0 (1 - 1) n1 | | | |
| Narrowleaf Evergreen Tree/Shrub | Fir, Douglas (Pseudotsuga menziesii) | 1.0 (1 - 1) n1 Labeled | 1.0 (1 - 1) n1 | | | |
| Tropical Foliage Plant | Devil's Ivy (Epipremnum pinnatum) | 1.0 (1 - 1) n1 | | | | |

Table 8. Drench Applications - Set 3.

| Plant Group | Crop | Segovis (Oxathiapiprolin) | SP2480 (SP2480) | SP2700 AS (SP2700) | SP2700 WP (SP2700) |
|-------------------------------------|--|------------------------------|--------------------|-----------------------|-----------------------|
| Herbaceous Flowering Plant | Daisy/Chrysanthemum (Chrysanthemum sp.) | | | | 1.0 (1 - 1) n1 |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (Antirrhinum majus) | 1.0 (1 - 1) n2 | | | |
| | Clubbed Begonia (Begonia semperflorens) | | | | 3.0 (3 - 3) n1 |
| | Begonia (Begonia sp.) | 1.0 (1 - 1) n1 | | | |
| | Calibrachoa (Calibrachoa sp.) | 1.0 (1 - 1) n1 | | | |
| | Periwinkle, Madagascar (Catharanthus roseus) | 1.0 (1 - 1) n2 | | | |
| | Transvaal Daisy (Gerbera sp.) | 1.0 (1 - 1) n2 | | | |
| | Impatiens, New Guinea (Impatiens hawkeri) | 1.0 (1 - 1) n2 | | | 5.0 (5 - 5) n1 |
| | Impatiens, Common Garden; Buzzy Lizzy (Impatiens walleriana) | 1.3 (1 - 2) n3 | | | 2.0 (2 - 2) n1 |
| | Daisybush (Osteospermum sp.) | 1.0 (1 - 1) n3 | | | |
| | Geranium, Zonal (Pelargonium x hortorum) | 1.0 (1 - 1) n2 | 1.0 (1 - 1) n1 | MFG Hold | |
| | Petunia (Petunia sp.) | 1.0 (1 - 1) n1 | | | |
| | Violet (Viola sp.) | 1.0 (1 - 1) n1 | | | |

| Plant Group | Crop | Segovis (Oxathiapiprolin) | SP2480 (SP2480) | SP2700 AS (SP2700) | SP2700 WP (SP2700) |
|--|--|------------------------------|--------------------|-----------------------|-----------------------|
| | Pansy, Large Flowering; Wittrock's Violet (Viola X wittrrockiana) | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant - Annual/Biennial/Peren | Sage (Salvia sp.) | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant - Perennial | Madwort (Alyssum sp.) | 1.0 (1 - 1) n2 | | | |
| | Hardy Mum (Chrysanthemum/Dendranthema x morifolium) | 1.0 (1 - 1) n1 | | | |
| | Tickseed (Coreopsis sp.) | 1.0 (1 - 1) n1 | | | |
| Herbaceous Flowering Plant - Perennial | Pink (Dianthus sp.) | 1.0 (1 - 1) n1 | | | |
| | Daisy, Shasta (Leucanthemum x superbum) | | 1.0 (1 - 1) n1 | MFG Hold | |
| | Lupine (Lupinus sp.) | 1.0 (1 - 1) n1 | | | |
| | Vervain (Verbena sp.) | 1.0 (1 - 1) n1 | | | |
| Tropical Foliage Plant | Dracaena (Dracaena sp.) | | | | 1.0 (1 - 1) n1 |

Table 10. Applications for Nematodes.

| Plant Group | Crop | Application Type | Indemnify (Fluopyram) | Reklemel (fluazaindolizine) |
|--|--|------------------|--------------------------|--------------------------------|
| Broadleaf Evergreen Tree/Shrub | Gardenia (Gardenia sp.) | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| | Indian Hawthorn (Rhaphiolepis indica) | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n2 | |
| Broadleaf Evergreen/Deciduous Tree/Shrub | Azalea (Rhododendron sp.) | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| | Abelia, Glossy (Abelia x grandiflora) | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n2 | |
| Deciduous Tree/Shrub/Vine | Plumeria (Plumeria sp.) | Foliar | 1.0 (1 - 1) n1 | |
| Herbaceous Flowering Plant | Flamingo Lily, Painters Palette (Anthurium andraeanum) | Foliar | 1.0 (1 - 1) n1 | |
| | Daisy/Chrysanthemum (Chrysanthemum sp.) | Drench | | 1.0 (1 - 1) n1 |
| | Orchid, Moth (Phalaenopsis sp.) | Foliar | 1.0 (1 - 1) n1 | |
| Herbaceous Flowering Plant - Annual | Garden Snapdragon (Antirrhinum majus) | Drench | 1.0 (1 - 1) n2 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| | Begonia (Begonia sp.) | Drench | 3.3 (3 - 4) n3 | |

| Plant Group | Crop | Application Type | Indemnify (Fluopyram) | Reklemel (fluazaindolizine) |
|--|---|------------------|-----------------------|-----------------------------|
| | Coleus, Flamenette (<i>Coleus</i> sp.) | Foliar | 2.3 (2 - 3) n3 | |
| | | Drench | 1.0 (1 - 1) n1 | |
| | | Drench | 3.0 (3 - 3) n2 | |
| | | Foliar | 1.5 (1 - 2) n2 | |
| | | Drench | 1.0 (1 - 1) n2 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| Herbaceous Flowering Plant - Perennial | Chrysanthemum, Garden (<i>Chrysanthemum/Dendranthema</i> sp.) | Drench | 1.0 (1 - 1) n2 | |
| | | Foliar | 1.0 (1 - 1) n2 | |
| | | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| | | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n2 | |
| | Daisy, Shasta (<i>Leucanthemum x superbum</i>) | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 2.0 (1 - 3) n2 | |
| | | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| | | Drench | 1.0 (1 - 1) n1 | |
| | | Foliar | 1.0 (1 - 1) n1 | |
| Palm | Palm, Mediterranean Fan; Dwarf Fan Palm (<i>Chamaerops humilis</i>) | Foliar | 1.0 (1 - 1) n1 | |