



Environmental Horticulture Program Research Project Sheet

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

Project Name: Pre Emergent Herbicide Crop Safety–Liquid Applications

New	Ongoing	X	Completed		Duration if ongoing or completed:	2004-2023
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Project Description:

The Pre-Emergent Herbicide Crop Safety Project began in 2004 and has continued through 2019. While specific crops and herbicides have changed, the intent of this research has been to screen over-the-top applications of pre-emergent herbicides as plants are breaking dormancy, or beginning new growth, and then 4 to 6 weeks later once foliage is more mature.

This research project sheet covers formulations applied as liquid sprays over the top of plants.

Research Project Abstract (if available):

Abstract from 2020 Dimethenamid-p Crop Safety Summary

From 2007 to 2021, IR-4 completed 573 trials on Tower EC (dimethenamid-p). The data contained in this report was generated to register uses of dimethenamid-p on and around environmental horticulture plants with over-the-top applications. The dimethenamid-p rates in the testing program were 0.97, 1.94 and 3.88 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Tower EC had been applied to 154 plant genera or species. Of these, 71 plant species exhibited no or minimal transient injury after application at all three rates. Twenty nine (29) crops exhibited no phytotoxicity at 0.97 lb ai per acre but did have some injury at 1.94 and 3.88 lb ai per acre. Fifteen crops – Aquilegia sp, Catharanthus roseus, Cladrastis sp., Crassula ovata, Crassula sp., Echeveria sp., Echinacea purpurea,, Echinacea sp, Epilobium canum, Helianthus annuus, Muhlenbergia dubia, Rudbeckia fulgida, Rudbeckia hirta, Teucrium chamaedrys, and Viburnum opulus,– exhibited significant phytotoxicity at even the lowest rate.

Abstract from 2022 Dithiopyr Crop Safety Summary

Dimension was initially registered in 1992 for environmental horticulture uses. This initial label contained an extensive list of plants for landscapes where Dimension could be used without causing phytotoxicity. From 1992 through 2004, IR-4 conducted 68 trials on 42 species / genera, including several different fern species grown in field containers, to contribute crop safety data for dithiopyr formulations. In 2006, the new Dimension 2EW label contained registered uses for field container and in ground nursery production, the first dithiopyr product to have these use sites. A revised label was published in 2015 adding more crop species to the label. This current label recommends directed spray as the application method for almost all crops. During 2014 to 2021, IR-4 conducted 252 trials with Dimension 2EW formulation applied as over-the-top spray on 101 species / genera, including ornamental grasses and sedums to further expand the treatable plant list in the current label. Of the researched crops and Dimension formulations, 16 crops (Aronia melanocarpa, Berberis thunbergii, Eragrostis curvula, Eucalyptus sp., Euonymus fortunei, Hemerocallis sp., Ilex crenata, Juncus effusus, Leymus arenarius, Muhlenbergia capillaris, Narcissus sp., Pennisetum alopecuroides, Pseudotsuga mensiezii, Rosa sp 'Knockout', Taxus cuspidata, Thuja occidentalis) can be added for over-the-top spray at this time based on the data provided here.

Abstract from 2016 Flumioxazin Crop Safety Summary

Flumioxazin has been registered in the United States since 2003 for uses in and around ornamental plants in production nurseries and in landscapes. Between 2000 and 2013, the IR-4 Project has conducted 618 trials using three granular formulations (BroadStar 0.17G, BroadStar 0.25G and BroadStar 0.25G VC1604) and a wettable dry granular formulation (SureGuard 51WDG). This is the first summary across all the available data for these 4 formulations generated through the IR-4 Project.

Sixty-three plant species or genera exhibited no or minimal transitory phytotoxicity to applications of BroadStar G formulations. Of these, nine are not currently listed on the current BroadStar 0.25G label. It is recommended

that these be added to the label. Sixteen crops exhibited significant damage after over the top applications of BroadStar G formulations at all tested rates. Of these, thirteen are not currently in the list of 'Sensitive Species' on the current BroadStar 0.25G label. It is recommended that these be added to the label.

Eleven plant species or genera exhibited no or minimal, transitory phytotoxicity to over the top applications of SureGuard 51WDG formulation; all these are already in the current label. Thirty-three crops demonstrated significant phytotoxicity at all tested rates of SureGuard 51WDG. If a list of 'Sensitive Species' is added to the current label, these crops could be included.

Abstract from 2016 Flumioxazin + Pyroxasulfone Crop Safety Summary

Between 2013 and 2015, IR-4 conducted twenty-seven (27) trials evaluating V-10336 61.5 WG and V-10233 76 WG (flumioxazin + pyroxasulfone) for crop safety. The data contained in this report was generated to register the use of this active ingredient combination with directed spray applications around ornamental horticulture plants. The rates tested were either 0.35, 0.71 and 1.42 pounds active ingredient per acre (lb ai per A) or 0.29, 0.58 and 1.15 lb ai per A as the 1X, 2X and 4X rates.

V-10336 and V-10233 were applied to twenty-three (23) plant species or genera. One genus (*Cornus* spp.) exhibited no or minimal transient injury in 3 trials across both formulations. None of the tested species exhibited injury or growth reduction at either the 2X or 4X rate with the exception of *Cercis canadensis* which exhibited moderate injury at all rates and stunting at 2X. Further testing is required before a conclusion can be made confirming crop safety on these crops.

Abstract from 2022 Indaziflam Crop Safety Summary

From 2011 through 2021, IR-4 has completed 186 trials evaluating two granular and one liquid formulations of indaziflam for crop safety. The data contained in this report was generated to register the use of indaziflam on and around environmental horticulture plants with over-the-top applications. The rates tested were 0.045, 0.089 and 0.178 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. The indaziflam 0.03%G formulation was applied to 17 plant genera or species, the Marengo G formulation applied to 34 crops, and the Marengo 74SC liquid formulation applied to 36 genera or species. Of these crops, 9 exhibited no or minimal transient injury after application with the granular formulations at all three rates including *Aucuba japonica*, *Berberis* sp., *Liriope* sp., *Ophiopogon japonicus*, *Picea abies*, *Rhododendron* sp., *Rosa* sp., *Taxus media* and certain *Viburnum* species. The plants exhibiting no or minimal transient injury with Marengo 74C include: *Crocus* sp., *Hyacinthus* sp., *Juniperus chinensis*, *Juniperus horizontalis*, and *Picea abies*. The remaining crops evaluated have only been screened in 1 or two trials or exhibited minimal to significant injury. Further testing is required for additional plant species before a conclusion can be made confirming crop safety.

Abstract from 2020 Isoxaben Crop Safety Summary

Gallery 75DF (isoxaben) was initially registered in 1992 for ornamental horticulture uses. This initial label contained an extensive list of ornamental horticulture crops where Gallery could be used without causing phytotoxicity. It also included a short list of crops where Gallery applications were not recommended. Between 1992 and 2013, IR-4 examined 98 crop species / genera to expand this label to other crops, including several different fern species grown in field containers. Of these, 24 crop species exhibited no or minimal transient injury with 20 already placed on the Gallery label. Eight crops exhibited injury in this research: *Astilbe* sp., *Athyrium filix-femina*, *Buddleia davidii*, *Dendranthema x morifolium*, *Digitalis purpurea*, *Echinacea purpurea*, *Stachys byzantine*, and *Thymus* sp. A new formulation, Gallery SC, was tested between 2014 and 2019 to determine crop safety on 35 species / genera in 74 trials. Of these, two species, *Chasmanthium latifolium*, *Juncus effusus*, *Leymus arenarius*, *Sorghastrum nutans*, *Sporobolus heterolepis*, and *Stipa* sp. exhibited no or minimal transient injury; *C. latifolium* is already in the Gallery SC label.

Abstract from 2021 Pendimethalin Crop Safety Summary

Pendimethalin has been registered in the United States since 1994 for uses in and around environmental horticulture plants in production nurseries and in landscapes. Between 1981 and 2021, the IR-4 Project has conducted 559 trials using two granular formulations (Corral 2.68G and Pendulum 2G), two liquid formulations (Pendulum AquaCap and Prowl 4E) and a wettable dry granular formulation (Pendulum WDG). Between 2014 and 2018, Pendulum 2G was examined for use on ornamental grasses. During 2020 and 2021, Pendulum 2G was a part of a project to examine options for field in-ground cutflower growers. This summary contains data across all the reports available through IR-4 since screenings began in 1981.

Ninety plant species or genera exhibited no or minimal, transitory phytotoxicity to over the top applications of Corral 2.68G and Pendulum 2G formulations (**Error! Reference source not found.**). Seven species exhibited significant injury at the 1X rate (**Error! Reference source not found.**), including many succulent species produced for greenroof installations. For 86 genera/species, more information is needed either because only 1 or 2 trials were conducted or because consistent results were not achieved among the research sites (**Error! Reference source not found.**). The 67 crops with asterisks exhibited no or minimal transitory injury. *Perovskia atriplicifolia*, a crop that is already on the Pendulum 2G label, showed no significant phytotoxicity at 1.5, 3 and 6 lb ai per acre but dry weight decreased significantly with increasing rate. Two other crops in the label, *Rudbeckia hirta* and *Zinnia sp.*, showed minor to moderate injury and biomass reduction with 3, 6 and 12 lb ai per acre. For cutflowers grown in ground, *Cosmos* exhibited no injury to Pendulum 2G in 3 trials, while *Solidago* exhibited minor but commercially acceptable injury in 2 out of 3 trials.

Abstract from 2006 Prodiamine Crop Safety Summary

Prodiamine has been registered in the United States for many years for uses in and around ornamental plants in production nurseries and in landscapes. There have been several label amendments expanding the list of ornamental plants where prodiamine formulations can be used. Since 1977, the IR-4 Project has conducted over 525 trials using granular, wettable powder, wettable dry granular and emulsifiable concentrate formulations. This is the first summary across all the available data generated through IR-4.

The marketplace contains multiple brands of prodiamine with similar formulations. This report is written to support amending any prodiamine label, so prodiamine will be used throughout instead of trade names with the exception of the specific products and formulations tested as referred to in Tables 4 and 5.

One hundred twenty plant species or genera exhibited no or minimal, transitory phytotoxicity to applications of WDG, WP and EC formulations. Of these, 52 species or genera are not currently on prodiamine WDG labels. It is recommended that 32 of these be placed on these labels along with moving 12 species from the portion of the label excluding use in CA to the portion of the label including use in CA. With additional data demonstrating no or minimal transient phytotoxicity, it is recommended the remaining 19 species also be added.

Twenty two species or genera exhibited no phytotoxicity at a 1X rate of the WDG, WP or EC formulations, but at higher rates there was some damage. Since some of the data was generated with EC and wettable powder formulations along with wettable dry granular formulations, it is recommended additional research be conducted on these species.

Only 8 species (*Ajuga sp.*, *Carex pennsylvanica*, *Ilex x meserveae*, *Limonium sp.*, *Petunia x hybrida*, *Sedum spurium*, *Viola tricolor*, and *Zinnia sp.*) demonstrated significant phytotoxicity even at a low label rate.

Forty-six plant species or genera exhibited no or minimal transitory phytotoxicity to applications of prodiamine G formulations. Of these 6 are not currently listed on prodiamine G labels. It is recommended that these be placed on the labels.

Only 2 crops (Cortaderia and Leucanthemum maximum) exhibited significant damage after prodiamine G applications.

Abstract from 2021 SP1770 Liquid Crop Safety Summary

SP1770 Liquid is a new herbicide being developed by SePro. The IR-4 Project completed 27 crop safety trials on 19 environmental horticulture plant species or genera during 2016 to 2018. In these trials, 16 of the 19 species or genera tested exhibited significant injury in the limited number of trials (one or two) for each crop.

Abstract from 2014 Sulfosulfuron Crop Safety Summary

Since 2005 IR-4 has completed 192 trials with sulfosulfuron (Certainty 75WDG) on 79 plant genera or species. The data contained in this report was generated to register uses of sulfosulfuron on and around ornamental horticulture plants with over-the-top applications. The sulfosulfuron rates in the testing programs were 1.25, 2.5 and 5 oz product per acre (0.0586, 0.117, and 0.188 lb ai per acre) as the 1X, 2X and 4X rates. Two plant genera or species exhibited no or minimal transient injury after application at all three rates in 3 trials including Gleditsia sp. and Hibiscus; however with the latter there may be a cultivar or species sensitivity. Five crops (Acer rubrum, Armeria maritima, Gazania sp., Lavandula angustifolia and Muhlenbergia capillaris) exhibited minimal or transient injury at the lowest rate but there was commercially unacceptable injury at the higher rates. For 26 crops, there was significant injury even mortality. For the remaining crops, more trials are needed to determine response.

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

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

Target Product(s)(list tested products or numbered compounds if ongoing or completed project)	
Marengo 74SC (indaziflam)	Tower (dimethenamid-p)

Product Registration and Research Status	
Labeled & Commercialized Wide range of ornamental horticulture crops listed	Registration Status Barricade 65WG (prodiamine) Dimension 2EW (dithiopyr) F6875 4SC (sulfentrazone + prodiamine) Gallery SC (isoxaben) Marengo 74SC (indaziflam) Pennant Magnum (s-metolachlor) SedgeHammer (halosulfuron) SP1770 Liquid SufeGuard 51WDG (flumioxazin) Tower (dimethenamid-p)
Labeled & Commercialized Opportunity to add additional ornamental horticulture crops	
Labeled But NOT Commercialized	
Not yet registered or labeled	
No longer available for development	

PROS	CONS
Additional research could yield data favorable for further label expansion for previously studied herbicides with generally good safety	Succulents – most products in the past have caused injury
Limited rotational products, trend towards liquid products due to labor for field in ground production	
Growers requesting a larger plant list	
Need more data for woody plants	
Need tropical plants for Florida growers	
Ornamental grasses – still a lot without registrations (still grown in increasing #s)	
Tropical plants & palms – need more rotational options	
Substantial bulb crops – field grown, then division	
Tree nursery production – seedling & cutting propagation	
Herbaceous Perennials need additional tools	
<p>Comments: Gallery recently expanded label; Ronstar: prohibition of use of liquid formulations, prohibition of use of MPHGs, reduction of maximum single and annual application rates to 3 and 6 lbs ai/A, 4 day REI for handset sprinkler irrigation in ornamental nurseries Subset of the project included pre-emergent herbicides in cutflower production; this work is still ongoing.</p>	
<p>IR-4 Crop Safety Trials to Date</p>	
<p>Average rating on a scale of 1 – 5 with 1 = 0 to about no injury and 5 = severe injury and mortality; minimum to maximum rating; number of trials. A rating of 3 or higher is considered commercially unacceptable (<i>red text</i>). A rating of 1 or 2 is considered commercially acceptable and those with more than 3 trials are complete (<i>green text</i>). ‘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.</p>	

Table 1 of 3.

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Abelia sp.						
Abies fraseri				1.0 (1 - 1) n3		1.0 (1 - 1) n1
Abies sp.						
Acer negundo var. negundo						
Acer platanoides				1.0 (1 - 1) n1		
Acer rubrum						
Acer saccharinum				2.0 (2 - 2) n1		
Acer sp.						
Achillea sp.						
Acorus sp.			3.0 (3 - 3) n1	2.0 (1 - 3) n3		
Aesculus glabra						
Aesculus sp.						
Agapanthus sp.						
Agastache rupestris						
Agave sp.					2.0 (2 - 2) n1	
Alchemilla sp.						
Allamanda cathartica						
Allamanda sp.						
Alnus sp.						
Aloe sp.					3.0 (2 - 4) n2	
Amelanchier canadensis						
Ammophila breviligulata				2.3 (1 - 4) n3		
Amsonia hubrichtii						
Andropogon gerardii				2.3 (1 - 3) n3		
Andropogon virginicus				2.7 (2 - 3) n3		
Aquilegia sp.						
Arachis sp						
Araucaria heterophylla						
Archontophoenix cunninghamiana						
Arctostaphylos sp.						
Arctotheca calendula						
Aronia melanocarpa				1.7 (1 - 3) n3		
Asarum canadense						
Asclepias sp.						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Asparagus densiflorus				1.7 (1 - 2) n3	1.0 (1 - 1) n1	
Aster sp.						
Astilbe sp.						
Athyrium nipponicum						
Aucuba sp.						
Aurinia saxatilis						
Baptisia sp.						
Begonia sp.				4.0 (3 - 5) n3		
Berberis sp.						
Berberis thunbergii				2.0 (1 - 3) n4		
Berlandiera lyrata						
Betula nigra						
Betula papyrifera						
Betula sp.						
Bougainvillea sp.				1.0 (1 - 1) n1		
Buxus microphylla						
Buxus sp.					2.5 (2 - 3) n2	
Cactaceae						
Caladium sp.						
Calamagrostis acutiflora				1.7 (1 - 3) n3	1.8 (1 - 3) n4	
Calamagrostis arundinacea						
Callistemon sp.						
Calluna sp.						
Calycanthus sp.						
Campanula sp.						
Canna x generalis						
Carex buchananii				1.5 (1 - 2) n2		
Carex cherokeensis						
Carex morrowii				2.5 (2 - 3) n2		
Carex sp.						
Carya illinoensis						
Cassia sp.						
Castanea sativa						
Catharanthus roseus						
Ceanothus x pallida						
Cedrus atlantica						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Cercis canadensis				3.0 (3 - 3) n1	3.0 (3 - 3) n1	
Cercis occidentalis						
Chamaecyparis obtusa						
Chamaecyparis pisifera						
Chamaecyparis sp.						
Chasmanthium latifolium				2.5 (1 - 4) n4	3.0 (1 - 4) n4	
Chelone sp.						
Chrysanthemum x rubellum						
Chrysanthemum/Dendranthema sp.		1.0 (1 - 1) n1		2.0 (2 - 2) n1	3.0 (2 - 4) n2	
Chrysanthemum/Dendranthema x morifolium						
Chrysogonum virginianum						
Citrus sp.						
Clematis sp.						
Cleyera japonica						
Cocos sp.				1.0 (1 - 1) n1		
Coreopsis sp.						
Cornus alternifolia						
Cornus florida				3.5 (3 - 4) n2		
Cornus kousa						
Cornus racemosa				5.0 (5 - 5) n1		
Cornus sericea				2.5 (2 - 3) n2	3.0 (3 - 3) n1	
Cornus sp.						
Cortaderia selloana				2.0 (2 - 2) n1		
Cortaderia sp.						
Cosmos sp.						
Cotoneaster apiculatus				3.0 (3 - 3) n2		
Cotoneaster sp.						
Crassula sp.					3.0 (3 - 3) n1	
Crataegus sp.				1.0 (1 - 1) n1		
Crocus sp.						
Crocus tommasinianus						
Cryptomeria japonica						
Cupressus sempervirens						
Cupressus sp.						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Cuprocyparis leylandii						
Cycas revoluta						
Cyperus sp.						
Cyrtomium fortunei						
Cytisus sp.						
Dahlia sp.						
Delosperma cooperi						
Delosperma sp.		1.0 (1 - 1) n2		1.0 (1 - 1) n2	1.7 (1 - 2) n3	
Deschampsia caespitosa				<i>3.0 (2 - 4) n3</i>		
Dianthus deltoides						
Dianthus gratianopolitanus						
Digitalis grandiflora						
Digitalis sp.						
Distylium sp.				<i>4.0 (4 - 4) n2</i>		
Dryopteris cycadina					<i>3.8 (3 - 4) n4</i>	
Dryopteris erythrosora						
Dryopteris ludoviciana						
Dryopteris sp.						
Duranta erecta						
Dypsis lutescens						
Echeveria sp.						
Echinacea purpurea						
Echinacea sp.						
Echinocactus grusonii					1.5 (1 - 2) n2	
Elaeagnus angustifolia						
Enkianthus sp.				<i>3.5 (3 - 4) n2</i>		
Equisetum hyemale						
Eragrostis curvula				1.5 (1 - 3) n4		
Eragrostis spectabilis				1.0 (1 - 1) n2		
Erythronium americanum						
Eucalyptus sp.				1.5 (1 - 3) n4		
Euonymus alatus				1.8 (1 - 3) n5		
Euonymus fortunei				1.3 (1 - 2) n3		
Euonymus japonicus						
Euonymus sp.						
Eupatorium maculatum						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Eupatorium sp.						
Euphorbia sp.						
Fagus sp.					2.3 (1 - 4) n3	
Festuca cinerea				1.5 (1 - 2) n2		
Festuca glauca				2.5 (1 - 4) n4		
Festuca ovina				5.0 (5 - 5) n2		
Forsythia sp.					3.0 (1 - 4) n3	
Fothergilla gardenii						
Fraxinus sp.						
Fritillaria meleagris						
Gaillardia sp.						
Gardenia sp.						
Gaura lindheimeri				2.0 (1 - 3) n2		
Ginkgo biloba						
Gladiolus sp.	2.0 (2 - 2) n1					
Gomphrena sp.						
Gymnocalycium baldianum						
Hakonechloa sp.				1.7 (1 - 2) n3		
Hamelia patens						
Hedera helix						
Helianthemum sp.						
Helianthus annuus						
Helictotrichon sp.			4.0 (4 - 4) n1			
Hemerocallis sp.				1.5 (1 - 2) n4	2.5 (2 - 3) n2	
Heuchera sanguinea						
Heuchera sp.						
Heucherella sp.						
Hibiscus rosa-sinensis						
Hibiscus sp.				2.5 (1 - 4) n4	2.0 (2 - 2) n1	
Hibiscus syriacus				1.7 (1 - 2) n3		
Hierochloe odorata						
Hosta sp.				2.3 (2 - 3) n3	4.0 (4 - 4) n1	
Hyacinthus orientalis						
Hyacinthus sp.						
Hydrangea macrophylla						
Hydrangea paniculata						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Hydrangea quercifolia						
Hydrangea sp.				3.0 (2 - 4) n4	2.0 (2 - 2) n1	
Hylotelephium sieboldii				4.0 (4 - 4) n2		
Hylotelephium telephium						
Hypericum sp.						
Iberis sp.						
Ilex cornuta				2.0 (1 - 3) n2		
Ilex crenata				1.3 (1 - 2) n3		
Ilex glabra						
Ilex sp.					1.8 (1 - 4) n4	
Ilex verticillata						
Ilex x attenuata				2.5 (2 - 3) n2		
Ilex x meserveae				2.3 (1 - 3) n4		
Iris sp.				2.0 (1 - 3) n3		
Itea virginica						
Jasminum sp.						
Juglans nigra						
Juglans sp.						
Juncus effusus			4.0 (4 - 4) n1	1.0 (1 - 1) n3		
Juniperus chinensis						
Juniperus communis						
Juniperus horizontalis						
Juniperus sp.						
Juniperus virginiana				1.5 (1 - 2) n2		
Juniperus x media						
Kalmia sp.						
Kerria japonica					2.0 (2 - 2) n1	
Lagerstroemia indica					1.5 (1 - 2) n2	
Larix sp.						
Lavandula sp.						
Leucanthemum maximum		2.0 (2 - 2) n1		2.0 (2 - 2) n1	3.3 (3 - 4) n3	
Leucanthemum x superbum						
Leucothoe sp.						
Leymus arenarius				1.0 (1 - 1) n3		
Ligustrum lucidum				1.0 (1 - 1) n1		
Ligustrum sp.						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Lilium Asiatic Hybrids						
Lilium sp.						
Liriope muscari						
Liriope sp.						
Liriope spicata						
Lonicera sp.						
Magnolia grandiflora						
Magnolia sp.						
Mahonia aquifolium						
Malus sp.					2.7 (2 - 3) n3	
Mammillaria sp.						
Miscanthus sinensis						
Miscanthus sp.						
Muhlenbergia capillaris			2.0 (2 - 2) n1	1.3 (1 - 2) n3		
Muhlenbergia dubia				3.0 (2 - 4) n2		
Muhlenbergia dumosa						
Muhlenbergia rigens						
Myrica cerifera				2.5 (2 - 3) n2		
Myrica pensylvanica					3.0 (2 - 4) n2	
Narcissus sp.				1.7 (1 - 2) n3		
Nassella tenuissima				1.7 (1 - 3) n3		
Nepeta x faassenii						
Nerium oleander						
Ophiopogon jaburan						
Ophiopogon sp.						
Osmanthus heterophyllus						
Osmunda regalis		1.0 (1 - 1) n1				
Osteospermum sp.						
Oxydendrum arboreum						
Pachysandra terminalis						
Paeonia lactiflora						
Paeonia sp.				3.3 (3 - 4) n3	4.0 (4 - 4) n1	
Panicum virgatum			2.0 (2 - 2) n1	1.3 (1 - 2) n3		
Pelargonium x domesticum						
Pennisetum alopecuroides				1.0 (1 - 1) n2		
Pennisetum orientale				2.7 (1 - 4) n3		

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Pennisetum setaceum						
Pennisetum sp.					3.0 (2 - 4) n2	
Penstemon sp.					2.5 (2 - 3) n2	
Perovskia atriplicifolia						
Philadelphus sp.					4.0 (4 - 4) n1	
Phlox paniculata						
Phlox stolonifera						
Phoenix roebelinii				1.0 (1 - 1) n1		
Photinia sp.						
Physocarpus opulifolius						
Physocarpus sp.				2.8 (1 - 4) n4		
Picea abies				1.7 (1 - 3) n3		
Picea glauca				1.7 (1 - 3) n3		
Picea glauca 'Conica'						
Picea omorika						
Picea sp.					1.0 (1 - 1) n1	
Pieris japonica				4.0 (4 - 4) n1		
Pinus nigra						
Pinus sp.				1.0 (1 - 1) n5	1.0 (1 - 1) n3	
Pinus strobus						
Pinus sylvestris						
Pinus taeda				1.0 (1 - 1) n1		
Platanus sp.				1.3 (1 - 2) n3		
Platycodon grandiflorus						
Polygonatum odoratum						
Populus sp.						
Portulaca grandiflora				2.5 (1 - 4) n4		
Portulacaria sp.						
Prunus laurocerasus						
Prunus serotina				4.0 (4 - 4) n1	2.5 (1 - 4) n2	
Prunus sp.						
Pseudotsuga menziesii				1.0 (1 - 1) n4		
Pulmonaria sp.						
Pyracantha sp.						
Pyrus communis						
Quercus acutissima						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Quercus nuttallii						
Quercus palustris						
Quercus rubra						
Quercus shumardii						
Quercus sp.				2.3 (1 - 4) n3	2.0 (1 - 3) n2	
Quercus virginiana						
Rhamnus sp.				2.7 (1 - 4) n3		
Rhaphiolepis indica						
Rhodiola pachyclados				3.7 (3 - 4) n3		
Rhododendron sp.				2.3 (2 - 3) n3		
Rosa sp.					3.0 (3 - 3) n1	
Rosmarinus officinalis						
Rubus calycinoides						
Rudbeckia fulgida var. speciosa						
Rudbeckia hirta						
Rudbeckia sp.					4.0 (4 - 4) n1	
Rumohra adiantiformis						
Sabal minor						
Saccharum ravennae						
Saccharum sp.						
Salix sp.						
Salvia nemorosa					2.0 (2 - 2) n1	
Salvia sp.						
Sambucus sp.						
Santolina chamaecyparissus						
Schizachyrium scoparium				2.3 (1 - 3) n4		
Sedum acre				4.0 (4 - 4) n2		
Sedum album						
Sedum hybridum				4.0 (4 - 4) n2		
Sedum kamtschaticus				3.7 (3 - 4) n3		
Sedum rupestre				4.5 (4 - 5) n2		
Sedum sexangulare				4.0 (4 - 4) n2		
Sedum sp.						
Sedum spathulifolium						
Sedum spurium				3.7 (3 - 4) n3		
Sempervivum sp.						

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Solanum sp.				2.5 (1 - 4) n2		
Solidago caesia						
Solidago sp.						
Solidago speciosa						
Sorghastrum nutans						
Spiraea japonica				3.5 (3 - 4) n4		
Spiraea sp.						
Sporobolus heterolepis				2.7 (1 - 4) n3		
Stachys byzantina						
Stipa sp.						
Stokesia sp.						
Stromanthe sp.						
Syringa sp.				2.3 (1 - 3) n4		
Tagetes erecta						
Taxodium distichum				1.0 (1 - 1) n1	2.0 (2 - 2) n2	
Taxus cuspidata						
Taxus sp.						
Taxus X media						
Teucrium chamaedrys						
Thuja occidentalis				1.0 (1 - 1) n4		
Thuja sp.					1.0 (1 - 1) n2	
Thymus serpyllum						
Trachelospermum asiaticum						
Trachelospermum jasminoides						
Trachycarpus fortunei				1.0 (1 - 1) n1		
Tsuga canadensis						
Tsuga sp.						
Tulbaghia violacea						
Tulipa sp.				2.0 (1 - 3) n3		
Ulmus parvifolia				1.0 (1 - 1) n1		
Ulmus sp.						
Vernonia noveboracensis						
Viburnum sp.					1.0 (1 - 1) n1	
Vinca major						
Vinca minor						
Vinca sp.					2.7 (2 - 4) n3	

CropLatinName	Barricade 4FL (Prodiamine)	Barricade 65WG (Prodiamine)	Certainty Turf Herbicide (Sulfosulfuron)	Dimension 2EW (Dithiopyr)	F6875 4SC (Sulfentrazone + Prodiamine)	FirstRate (cloransulam-methyl)
Washingtonia robusta				1.0 (1 - 1) n2	3.0 (3 - 3) n1	
Wisteria sp.						
Wodyetia bifurcata						
Zelkova serrata						
Zephyranthes sp.						
Zinnia angustifolia						
Zinnia sp.						

Table 2 of 3.

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Abelia sp.</i>						
<i>Abies fraseri</i>						
<i>Abies sp.</i>						
<i>Acer negundo var. negundo</i>						
<i>Acer platanoides</i>						
<i>Acer rubrum</i>						
<i>Acer saccharinum</i>						
<i>Acer sp.</i>						
<i>Achillea sp.</i>						
<i>Acorus sp.</i>		1.0 (1 - 1) n3			3.0 (3 - 3) n1	
<i>Aesculus glabra</i>						
<i>Aesculus sp.</i>						
<i>Agapanthus sp.</i>						
<i>Agastache rupestris</i>					3.0 (2 - 4) n3	
<i>Agave sp.</i>						
<i>Alchemilla sp.</i>						
<i>Allamanda cathartica</i>						
<i>Allamanda sp.</i>						
<i>Alnus sp.</i>						
<i>Aloe sp.</i>						
<i>Amelanchier canadensis</i>						
<i>Ammophila breviligulata</i>						
<i>Amsonia hubrichtii</i>				3.0 (3 - 3) n1	3.7 (3 - 4) n3	
<i>Andropogon gerardii</i>		1.0 (1 - 1) n2			2.5 (1 - 4) n2	
<i>Andropogon virginicus</i>					2.5 (2 - 3) n2	
<i>Aquilegia sp.</i>						
<i>Arachis sp.</i>						
<i>Araucaria heterophylla</i>						
<i>Archontophoenix cunninghamiana</i>			1.0 (1 - 1) n1			
<i>Arctostaphylos sp.</i>						
<i>Arctotheca calendula</i>						
<i>Aronia melanocarpa</i>		1.7 (1 - 3) n3				
<i>Asarum canadense</i>					4.0 (4 - 4) n2	
<i>Asclepias sp.</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Asparagus densiflorus</i>						
<i>Aster sp.</i>			3.5 (2 - 5) n2			
<i>Astilbe sp.</i>						
<i>Athyrium nipponicum</i>						
<i>Aucuba sp.</i>						
<i>Aurinia saxatilis</i>					5.0 (5 - 5) n1	
<i>Baptisia sp.</i>						
<i>Begonia sp.</i>						
<i>Berberis sp.</i>						
<i>Berberis thunbergii</i>						
<i>Berlandiera lyrata</i>						
<i>Betula nigra</i>						
<i>Betula papyrifera</i>						
<i>Betula sp.</i>						
<i>Bougainvillea sp.</i>						
<i>Buxus microphylla</i>						
<i>Buxus sp.</i>			2.0 (1 - 3) n3			
Cactaceae						
<i>Caladium sp.</i>			2.0 (1 - 4) n3			
<i>Calamagrostis acutiflora</i>		2.7 (1 - 4) n3			3.0 (2 - 4) n2	
<i>Calamagrostis arundinacea</i>	1.0 (1 - 1) n1					
<i>Callistemon sp.</i>						
<i>Calluna sp.</i>						
<i>Calycanthus sp.</i>						
<i>Campanula sp.</i>						
<i>Canna x generalis</i>						
<i>Carex buchananii</i>		1.8 (1 - 4) n4				
<i>Carex cherokeensis</i>		3.0 (1 - 4) n4				
<i>Carex morrowii</i>		2.3 (1 - 3) n3				4.0 (4 - 4) n1
<i>Carex sp.</i>						
<i>Carya illinoensis</i>						
<i>Cassia sp.</i>						
<i>Castanea sativa</i>						
<i>Catharanthus roseus</i>						
<i>Ceanothus x pallida</i>						
<i>Cedrus atlantica</i>			1.0 (1 - 1) n1			

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Cercis canadensis</i>						
<i>Cercis occidentalis</i>						
<i>Chamaecyparis obtusa</i>			1.0 (1 - 1) n1			
<i>Chamaecyparis pisifera</i>			1.0 (1 - 1) n1			
<i>Chamaecyparis sp.</i>						
<i>Chasmanthium latifolium</i>	1.0 (1 - 1) n1	1.3 (1 - 2) n3				
<i>Chelone sp.</i>					1.0 (1 - 1) n1	
<i>Chrysanthemum x rubellum</i>						
<i>Chrysanthemum/Dendranthema sp.</i>						
<i>Chrysanthemum/Dendranthema x morifolium</i>	2.0 (2 - 2) n1					
<i>Chrysogonum virginianum</i>						
<i>Citrus sp.</i>						
<i>Clematis sp.</i>					4.0 (4 - 4) n1	
<i>Cleyera japonica</i>						
<i>Cocos sp.</i>		1.0 (1 - 1) n1				
<i>Coreopsis sp.</i>						
<i>Cornus alternifolia</i>						
<i>Cornus florida</i>						
<i>Cornus kousa</i>						
<i>Cornus racemosa</i>						
<i>Cornus sericea</i>						
<i>Cornus sp.</i>						3.0 (1 - 4) n3
<i>Cortaderia selloana</i>		1.0 (1 - 1) n1				
<i>Cortaderia sp.</i>						
<i>Cosmos sp.</i>		4.0 (4 - 4) n1	4.0 (4 - 4) n2		3.0 (3 - 3) n1	
<i>Cotoneaster apiculatus</i>						
<i>Cotoneaster sp.</i>						
<i>Crassula sp.</i>	2.0 (2 - 2) n1					
<i>Crataegus sp.</i>						
<i>Crocus sp.</i>			1.3 (1 - 2) n3			
<i>Crocus tommasinianus</i>		2.0 (2 - 2) n1				
<i>Cryptomeria japonica</i>			2.0 (1 - 3) n2			
<i>Cupressus sempervirens</i>						
<i>Cupressus sp.</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Cuprocyparis leylandii</i>						
<i>Cycas revoluta</i>						
<i>Cyperus sp.</i>						
<i>Cyrtomium fortunei</i>					2.0 (2 - 2) n1	
<i>Cytisus sp.</i>						
<i>Dahlia sp.</i>			1.0 (1 - 1) n2			
<i>Delosperma cooperi</i>						
<i>Delosperma sp.</i>	1.0 (1 - 1) n2					
<i>Deschampsia caespitosa</i>		2.0 (1 - 3) n2				
<i>Dianthus deltoides</i>						
<i>Dianthus gratianopolitanus</i>						
<i>Digitalis grandiflora</i>						
<i>Digitalis sp.</i>						
<i>Distylium sp.</i>						
<i>Dryopteris cycadina</i>						
<i>Dryopteris erythrosora</i>						
<i>Dryopteris ludoviciana</i>	2.0 (2 - 2) n2					
<i>Dryopteris sp.</i>						
<i>Duranta erecta</i>					2.0 (1 - 3) n2	
<i>Dypsis lutescens</i>						
<i>Echeveria sp.</i>						
<i>Echinacea purpurea</i>		3.0 (2 - 4) n2	4.5 (4 - 5) n2		2.0 (1 - 3) n2	
<i>Echinacea sp.</i>						
<i>Echinocactus grusonii</i>	2.0 (2 - 2) n1					
<i>Elaeagnus angustifolia</i>						
<i>Enkianthus sp.</i>						
<i>Equisetum hyemale</i>						
<i>Eragrostis curvula</i>						
<i>Eragrostis spectabilis</i>		1.0 (1 - 1) n2				
<i>Erythronium americanum</i>		2.5 (2 - 3) n2	2.5 (2 - 3) n2			
<i>Eucalyptus sp.</i>						
<i>Euonymus alatus</i>						
<i>Euonymus fortunei</i>						
<i>Euonymus japonicus</i>						
<i>Euonymus sp.</i>						
<i>Eupatorium maculatum</i>					2.0 (2 - 2) n1	

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Eupatorium sp.</i>					2.0 (1 - 3) n2	
<i>Euphorbia sp.</i>						
<i>Fagus sp.</i>						
<i>Festuca cinerea</i>						
<i>Festuca glauca</i>		3.0 (3 - 3) n1				4.7 (4 - 5) n3
<i>Festuca ovina</i>						
<i>Forsythia sp.</i>						2.3 (1 - 4) n3
<i>Fothergilla gardenii</i>						
<i>Fraxinus sp.</i>						
<i>Fritillaria meleagris</i>		1.5 (1 - 2) n2	3.0 (2 - 4) n2			
<i>Gaillardia sp.</i>						
<i>Gardenia sp.</i>						2.0 (1 - 4) n3
<i>Gaura lindheimeri</i>						
<i>Ginkgo biloba</i>						
<i>Gladiolus sp.</i>		2.0 (2 - 2) n1	1.3 (1 - 2) n3			
<i>Gomphrena sp.</i>					3.0 (2 - 4) n3	
<i>Gymnocalycium baldianum</i>						
<i>Hakonechloa sp.</i>		1.0 (1 - 1) n2				
<i>Hamelia patens</i>						
<i>Hedera helix</i>						
<i>Helianthemum sp.</i>					3.0 (3 - 3) n1	
<i>Helianthus annuus</i>						
<i>Helictotrichon sp.</i>						
<i>Hemerocallis sp.</i>						
<i>Heuchera sanguinea</i>						
<i>Heuchera sp.</i>						
<i>Heucherella sp.</i>					1.0 (1 - 1) n1	
<i>Hibiscus rosa-sinensis</i>						
<i>Hibiscus sp.</i>						4.0 (4 - 4) n4
<i>Hibiscus syriacus</i>						
<i>Hierochloe odorata</i>		1.0 (1 - 1) n2				
<i>Hosta sp.</i>						
<i>Hyacinthus orientalis</i>		2.0 (2 - 2) n1				
<i>Hyacinthus sp.</i>			1.3 (1 - 2) n3			
<i>Hydrangea macrophylla</i>						
<i>Hydrangea paniculata</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Hydrangea quercifolia</i>						
<i>Hydrangea sp.</i>						
<i>Hylotelephium sieboldii</i>						
<i>Hylotelephium telephium</i>						
<i>Hypericum sp.</i>						
<i>Iberis sp.</i>						
<i>Ilex cornuta</i>						1.7 (1 - 3) n3
<i>Ilex crenata</i>						
<i>Ilex glabra</i>						
<i>Ilex sp.</i>			3.0 (1 - 4) n3			
<i>Ilex verticillata</i>						
<i>Ilex x attenuata</i>						
<i>Ilex x meserveae</i>						
<i>Iris sp.</i>						
<i>Itea virginica</i>						3.5 (3 - 4) n2
<i>Jasminum sp.</i>						
<i>Juglans nigra</i>						
<i>Juglans sp.</i>						
<i>Juncus effusus</i>		1.5 (1 - 2) n4			4.0 (4 - 4) n2	
<i>Juniperus chinensis</i>			1.0 (1 - 1) n2			
<i>Juniperus communis</i>			1.0 (1 - 1) n1			
<i>Juniperus horizontalis</i>			1.0 (1 - 1) n2			
<i>Juniperus sp.</i>						
<i>Juniperus virginiana</i>						
<i>Juniperus x media</i>			1.0 (1 - 1) n1			
<i>Kalmia sp.</i>						
<i>Kerria japonica</i>	2.0 (2 - 2) n1					
<i>Lagerstroemia indica</i>						
<i>Larix sp.</i>						
<i>Lavandula sp.</i>						
<i>Leucanthemum maximum</i>	3.0 (3 - 3) n1					
<i>Leucanthemum x superbum</i>				1.0 (1 - 1) n1	2.7 (1 - 4) n3	
<i>Leucothoe sp.</i>						
<i>Leymus arenarius</i>		1.0 (1 - 1) n3				
<i>Ligustrum lucidum</i>						
<i>Ligustrum sp.</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Lilium Asiatic Hybrids</i>		2.0 (1 - 3) n2	1.5 (1 - 2) n2			
<i>Lilium sp.</i>						
<i>Liriope muscari</i>						
<i>Liriope sp.</i>						
<i>Liriope spicata</i>						
<i>Lonicera sp.</i>						
<i>Magnolia grandiflora</i>						
<i>Magnolia sp.</i>						3.5 (3 - 4) n2
<i>Mahonia aquifolium</i>						
<i>Malus sp.</i>						
<i>Mammillaria sp.</i>						
<i>Miscanthus sinensis</i>						
<i>Miscanthus sp.</i>						
<i>Muhlenbergia capillaris</i>		2.0 (1 - 3) n3			2.0 (2 - 2) n1	
<i>Muhlenbergia dubia</i>		2.0 (1 - 3) n2				
<i>Muhlenbergia dumosa</i>		1.0 (1 - 1) n2				
<i>Muhlenbergia rigens</i>		1.0 (1 - 1) n1				
<i>Myrica cerifera</i>						
<i>Myrica pensylvanica</i>						
<i>Narcissus sp.</i>			1.5 (1 - 2) n2			
<i>Nassella tenuissima</i>		1.0 (1 - 1) n3				
<i>Nepeta x faassenii</i>						
<i>Nerium oleander</i>						
<i>Ophiopogon jaburan</i>						
<i>Ophiopogon sp.</i>						
<i>Osmanthus heterophyllus</i>						
<i>Osmunda regalis</i>						3.5 (3 - 4) n2
<i>Osteospermum sp.</i>						
<i>Oxydendrum arboreum</i>						
<i>Pachysandra terminalis</i>						
<i>Paeonia lactiflora</i>						
<i>Paeonia sp.</i>		2.7 (2 - 3) n3				
<i>Panicum virgatum</i>		1.0 (1 - 1) n3				
<i>Pelargonium x domesticum</i>						
<i>Pennisetum alopecuroides</i>		1.0 (1 - 1) n1				
<i>Pennisetum orientale</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Pennisetum setaceum</i>						
<i>Pennisetum sp.</i>						
<i>Penstemon sp.</i>						
<i>Perovskia atriplicifolia</i>						
<i>Philadelphus sp.</i>						
<i>Phlox paniculata</i>		2.0 (2 - 2) n1	4.5 (4 - 5) n2		1.3 (1 - 2) n3	
<i>Phlox stolonifera</i>						
<i>Phoenix roebelinii</i>						
<i>Photinia sp.</i>						
<i>Physocarpus opulifolius</i>						
<i>Physocarpus sp.</i>						
<i>Picea abies</i>			1.3 (1 - 2) n3			
<i>Picea glauca</i>						
<i>Picea glauca 'Conica'</i>			1.0 (1 - 1) n1			
<i>Picea omorika</i>			5.0 (5 - 5) n1			
<i>Picea sp.</i>						
<i>Pieris japonica</i>						
<i>Pinus nigra</i>			1.0 (1 - 1) n2			
<i>Pinus sp.</i>						1.0 (1 - 1) n3
<i>Pinus strobus</i>			1.0 (1 - 1) n3			
<i>Pinus sylvestris</i>			1.0 (1 - 1) n2			
<i>Pinus taeda</i>						
<i>Platanus sp.</i>						
<i>Platycodon grandiflorus</i>					3.5 (2 - 5) n2	
<i>Polygonatum odoratum</i>					1.0 (1 - 1) n1	
<i>Populus sp.</i>						
<i>Portulaca grandiflora</i>						
<i>Portulacaria sp.</i>						
<i>Prunus laurocerasus</i>						
<i>Prunus serotina</i>						
<i>Prunus sp.</i>						
<i>Pseudotsuga menziesii</i>						
<i>Pulmonaria sp.</i>					4.0 (3 - 5) n2	
<i>Pyracantha sp.</i>						
<i>Pyrus communis</i>						
<i>Quercus acutissima</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Quercus nuttallii</i>						
<i>Quercus palustris</i>						
<i>Quercus rubra</i>						
<i>Quercus shumardii</i>						
<i>Quercus sp.</i>						3.0 (2 - 4) n3
<i>Quercus virginiana</i>						
<i>Rhamnus sp.</i>						
<i>Rhaphiolepis indica</i>						
<i>Rhodiola pachyclados</i>						
<i>Rhododendron sp.</i>			2.7 (1 - 4) n3			
<i>Rosa sp.</i>						
<i>Rosmarinus officinalis</i>						
<i>Rubus calycinoides</i>					3.0 (3 - 3) n1	
<i>Rudbeckia fulgida var. speciosa</i>						
<i>Rudbeckia hirta</i>			4.0 (4 - 4) n1		4.0 (4 - 4) n1	
<i>Rudbeckia sp.</i>						
<i>Rumohra adiantiformis</i>						
<i>Sabal minor</i>						
<i>Saccharum ravennae</i>						
<i>Saccharum sp.</i>		1.0 (1 - 1) n1				
<i>Salix sp.</i>						
<i>Salvia nemorosa</i>	3.0 (3 - 3) n2					
<i>Salvia sp.</i>						
<i>Sambucus sp.</i>						
<i>Santolina chamaecyparissus</i>						
<i>Schizachyrium scoparium</i>		1.0 (1 - 1) n2				
<i>Sedum acre</i>						
<i>Sedum album</i>						
<i>Sedum hybridum</i>						
<i>Sedum kamtschaticus</i>						
<i>Sedum rupestre</i>						
<i>Sedum sexamgulare</i>						
<i>Sedum sp.</i>						
<i>Sedum spathulifolium</i>						
<i>Sedum spurium</i>						
<i>Sempervivum sp.</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Solanum sp.</i>						
<i>Solidago caesia</i>					2.0 (1 - 3) n2	
<i>Solidago sp.</i>			2.5 (2 - 3) n2		3.0 (3 - 3) n1	
<i>Solidago speciosa</i>					1.7 (1 - 3) n3	
<i>Sorghastrum nutans</i>		1.0 (1 - 1) n3				
<i>Spiraea japonica</i>						
<i>Spiraea sp.</i>						
<i>Sporobolus heterolepis</i>		1.0 (1 - 1) n3			3.0 (3 - 3) n1	
<i>Stachys byzantina</i>						
<i>Stipa sp.</i>		1.0 (1 - 1) n3				
<i>Stokesia sp.</i>					3.0 (2 - 4) n2	
<i>Stromanthe sp.</i>						
<i>Syringa sp.</i>						
<i>Tagetes erecta</i>						
<i>Taxodium distichum</i>						
<i>Taxus cuspidata</i>			2.0 (2 - 2) n1			
<i>Taxus sp.</i>						
<i>Taxus X media</i>			2.0 (2 - 2) n1			
<i>Teucrium chamaedrys</i>						
<i>Thuja occidentalis</i>						
<i>Thuja sp.</i>						
<i>Thymus serpyllum</i>					5.0 (5 - 5) n1	
<i>Trachelospermum asiaticum</i>						
<i>Trachelospermum jasminoides</i>						
<i>Trachycarpus fortunei</i>			1.0 (1 - 1) n1			
<i>Tsuga canadensis</i>			2.7 (1 - 4) n3			
<i>Tsuga sp.</i>						
<i>Tulbaghia violacea</i>						
<i>Tulipa sp.</i>			2.0 (1 - 3) n2			
<i>Ulmus parvifolia</i>						
<i>Ulmus sp.</i>						
<i>Vernonia noveboracensis</i>						
<i>Viburnum sp.</i>						
<i>Vinca major</i>						
<i>Vinca minor</i>						
<i>Vinca sp.</i>						

Crop Latin Name	Gallery 75DF (Isoxaben)	Gallery SC (Isoxaben)	Marengo 74SC (Indaziflam)	Pendulum 3.3 EC (Pendimethalin)	Pennant Magnum (S- Metolachlor)	SP1770 Liquid (SP1770)
<i>Washingtonia robusta</i>			1.0 (1 - 1) n1			
<i>Wisteria sp.</i>						
<i>Wodyetia bifurcata</i>						
<i>Zelkova serrata</i>						
<i>Zephyranthes sp.</i>						
<i>Zinnia angustifolia</i>		2.0 (2 - 2) n1				
<i>Zinnia sp.</i>			<i>4.0 (4 - 4) n1</i>		2.0 (2 - 2) n1	

Table 3 of 3.

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid-p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Abelia sp.</i>						
<i>Abies fraseri</i>						
<i>Abies sp.</i>						
<i>Acer negundo var. negundo</i>				1.0 (1 - 1) n1		
<i>Acer platanoides</i>						
<i>Acer rubrum</i>						
<i>Acer saccharinum</i>						
<i>Acer sp.</i>					2.5 (2 - 3) n2	1.0 (1 - 1) n1
<i>Achillea sp.</i>						
<i>Acorus sp.</i>						
<i>Aesculus glabra</i>				1.0 (1 - 1) n2		
<i>Aesculus sp.</i>						1.0 (1 - 1) n1
<i>Agapanthus sp.</i>						
<i>Agastache rupestris</i>						
<i>Agave sp.</i>				2.5 (2 - 3) n2		
<i>Alchemilla sp.</i>						
<i>Allamanda cathartica</i>						
<i>Allamanda sp.</i>						
<i>Alnus sp.</i>				2.0 (1 - 3) n3		
<i>Aloe sp.</i>				3.0 (2 - 4) n2		
<i>Amelanchier canadensis</i>				2.0 (1 - 3) n3		
<i>Ammophila breviligulata</i>						
<i>Amsonia hubrichtii</i>						
<i>Andropogon gerardii</i>		1.0 (1 - 1) n1				
<i>Andropogon virginicus</i>		1.0 (1 - 1) n1				
<i>Aquilegia sp.</i>				3.5 (2 - 5) n4		
<i>Arachis sp</i>				1.0 (1 - 1) n2		
<i>Araucaria heterophylla</i>						
<i>Archontophoenix cunninghamiana</i>				1.0 (1 - 1) n2		
<i>Arctostaphylos sp.</i>				2.5 (2 - 3) n2		
<i>Arctotheca calendula</i>						
<i>Aronia melanocarpa</i>				3.0 (3 - 3) n3		
<i>Asarum canadense</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Asclepias sp.</i>				3.0 (2 - 4) n2		
<i>Asparagus densiflorus</i>				2.0 (2 - 2) n1		
<i>Aster sp.</i>				2.5 (2 - 3) n2		
<i>Astilbe sp.</i>						
<i>Athyrium nipponicum</i>						
<i>Aucuba sp.</i>						
<i>Aurinia saxatilis</i>						
<i>Baptisia sp.</i>						
<i>Begonia sp.</i>						
<i>Berberis sp.</i>						1.0 (1 - 1) n1
<i>Berberis thunbergii</i>	3.0 (3 - 3) n1					
<i>Berlandiera lyrata</i>				3.0 (1 - 5) n3		
<i>Betula nigra</i>						
<i>Betula papyrifera</i>						
<i>Betula sp.</i>					1.0 (1 - 1) n1	2.0 (2 - 2) n1
<i>Bougainvillea sp.</i>						
<i>Buxus microphylla</i>	3.0 (3 - 3) n1					
<i>Buxus sp.</i>						1.0 (1 - 1) n1
<i>Cactaceae</i>						
<i>Caladium sp.</i>						
<i>Calamagrostis acutiflora</i>						
<i>Calamagrostis arundinacea</i>						
<i>Callistemon sp.</i>				1.0 (1 - 1) n1		
<i>Calluna sp.</i>						
<i>Calycanthus sp.</i>						
<i>Campanula sp.</i>						
<i>Canna x generalis</i>						
<i>Carex buchananii</i>			3.0 (3 - 3) n1			
<i>Carex cherokeensis</i>			3.0 (3 - 3) n1			
<i>Carex morrowii</i>						
<i>Carex sp.</i>						
<i>Carya illinoensis</i>				1.3 (1 - 2) n3		
<i>Cassia sp.</i>						
<i>Castanea sativa</i>				2.7 (1 - 4) n3		
<i>Catharanthus roseus</i>				4.0 (3 - 5) n3		

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid-p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Ceanothus x pallida</i>				1.0 (1 - 1) n1		
<i>Cedrus atlantica</i>						
<i>Cercis canadensis</i>						
<i>Cercis occidentalis</i>						3.0 (3 - 3) n1
<i>Chamaecyparis obtusa</i>						
<i>Chamaecyparis pisifera</i>						
<i>Chamaecyparis sp.</i>						
<i>Chasmanthium latifolium</i>				2.3 (1 - 4) n4		
<i>Chelone sp.</i>						
<i>Chrysanthemum x rubellum</i>						
<i>Chrysanthemum/Dendranthema sp.</i>				1.8 (1 - 3) n4		
<i>Chrysanthemum/Dendranthema x morifolium</i>				3.5 (2 - 5) n2		
<i>Chrysogonum virginianum</i>						
<i>Citrus sp.</i>						
<i>Clematis sp.</i>						
<i>Cleyera japonica</i>						
<i>Cocos sp.</i>				1.0 (1 - 1) n2		
<i>Coreopsis sp.</i>						
<i>Cornus alternifolia</i>						
<i>Cornus florida</i>						
<i>Cornus kousa</i>						
<i>Cornus racemosa</i>						
<i>Cornus sericea</i>				1.7 (1 - 3) n3		
<i>Cornus sp.</i>					1.5 (1 - 2) n2	1.0 (1 - 1) n1
<i>Cortaderia selloana</i>						
<i>Cortaderia sp.</i>						
<i>Cosmos sp.</i>				3.5 (3 - 4) n2		
<i>Cotoneaster apiculatus</i>						
<i>Cotoneaster sp.</i>						
<i>Crassula sp.</i>				3.5 (3 - 4) n2		
<i>Crataegus sp.</i>				2.0 (1 - 3) n2	2.7 (1 - 4) n3	
<i>Crocus sp.</i>						
<i>Crocus tommasinianus</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Cryptomeria japonica</i>						
<i>Cupressus sempervirens</i>						
<i>Cupressus sp.</i>				1.0 (1 - 1) n1		
<i>Cuprocyparis leylandii</i>				1.3 (1 - 2) n3		
<i>Cycas revoluta</i>				1.0 (1 - 1) n1		
<i>Cyperus sp.</i>						
<i>Cyrtomium fortunei</i>						
<i>Cytisus sp.</i>						
<i>Dahlia sp.</i>				4.0 (4 - 4) n1		
<i>Delosperma cooperi</i>						
<i>Delosperma sp.</i>				2.2 (1 - 3) n5		
<i>Deschampsia caespitosa</i>			3.0 (3 - 3) n1			
<i>Dianthus deltoides</i>						
<i>Dianthus gratianopolitanus</i>						
<i>Digitalis grandiflora</i>						
<i>Digitalis sp.</i>						
<i>Distylium sp.</i>				2.7 (2 - 3) n3		
<i>Dryopteris cycadina</i>				2.5 (2 - 3) n2		
<i>Dryopteris erythrosora</i>				2.0 (1 - 3) n2		
<i>Dryopteris ludoviciana</i>						
<i>Dryopteris sp.</i>						
<i>Duranta erecta</i>						
<i>Dypsis lutescens</i>				1.0 (1 - 1) n1		
<i>Echeveria sp.</i>				3.5 (3 - 4) n2		
<i>Echinacea purpurea</i>				2.3 (2 - 3) n3		
<i>Echinacea sp.</i>				3.5 (3 - 4) n2		
<i>Echinocactus grusonii</i>				1.0 (1 - 1) n2		
<i>Elaeagnus angustifolia</i>						
<i>Enkianthus sp.</i>				4.0 (4 - 4) n1		
<i>Equisetum hyemale</i>						
<i>Eragrostis curvula</i>						
<i>Eragrostis spectabilis</i>						
<i>Erythronium americanum</i>						
<i>Eucalyptus sp.</i>						
<i>Euonymus alatus</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Euonymus fortunei</i>				1.3 (1 - 2) n3		
<i>Euonymus japonicus</i>				1.5 (1 - 2) n2		
<i>Euonymus sp.</i>						
<i>Eupatorium maculatum</i>						
<i>Eupatorium sp.</i>						
<i>Euphorbia sp.</i>						
<i>Fagus sp.</i>				1.0 (1 - 1) n2		
<i>Festuca cinerea</i>						
<i>Festuca glauca</i>						
<i>Festuca ovina</i>						
<i>Forsythia sp.</i>	4.0 (4 - 4) n1			1.0 (1 - 1) n1		
<i>Fothergilla gardenii</i>				1.0 (1 - 1) n2		
<i>Fraxinus sp.</i>					2.3 (1 - 4) n3	
<i>Fritillaria meleagris</i>						
<i>Gaillardia sp.</i>						
<i>Gardenia sp.</i>				1.0 (1 - 1) n2		
<i>Gaura lindheimeri</i>				1.7 (1 - 3) n3		
<i>Ginkgo biloba</i>						2.0 (2 - 2) n1
<i>Gladiolus sp.</i>				1.0 (1 - 1) n2		
<i>Gomphrena sp.</i>						
<i>Gymnocalycium baldianum</i>						
<i>Hakonechloa sp.</i>						
<i>Hamelia patens</i>						
<i>Hedera helix</i>						
<i>Helianthemum sp.</i>						
<i>Helianthus annuus</i>				4.5 (4 - 5) n2		
<i>Helictotrichon sp.</i>						
<i>Hemerocallis sp.</i>				2.0 (2 - 2) n1		
<i>Heuchera sanguinea</i>				2.3 (1 - 3) n4		
<i>Heuchera sp.</i>						
<i>Heucherella sp.</i>						
<i>Hibiscus rosa-sinensis</i>						
<i>Hibiscus sp.</i>	4.0 (4 - 4) n1			2.0 (2 - 2) n1		
<i>Hibiscus syriacus</i>						
<i>Hierochloe odorata</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Hosta sp.</i>	4.0 (4 - 4) n1			1.5 (1 - 2) n6		
<i>Hyacinthus orientalis</i>						
<i>Hyacinthus sp.</i>						
<i>Hydrangea macrophylla</i>						
<i>Hydrangea paniculata</i>						
<i>Hydrangea quercifolia</i>						
<i>Hydrangea sp.</i>	3.0 (3 - 3) n1			2.0 (2 - 2) n1	2.0 (1 - 3) n2	
<i>Hylotelephium sieboldii</i>						
<i>Hylotelephium telephium</i>						
<i>Hypericum sp.</i>						
<i>Iberis sp.</i>				3.0 (1 - 4) n3		
<i>Ilex cornuta</i>						
<i>Ilex crenata</i>						
<i>Ilex glabra</i>				1.0 (1 - 1) n3		
<i>Ilex sp.</i>						
<i>Ilex verticillata</i>						
<i>Ilex x attenuata</i>						
<i>Ilex x meserveae</i>						
<i>Iris sp.</i>				2.3 (2 - 3) n3		
<i>Itea virginica</i>				2.7 (1 - 4) n3		
<i>Jasminum sp.</i>						
<i>Juglans nigra</i>					1.0 (1 - 1) n3	1.0 (1 - 1) n1
<i>Juglans sp.</i>						
<i>Juncus effusus</i>						
<i>Juniperus chinensis</i>						
<i>Juniperus communis</i>						
<i>Juniperus horizontalis</i>						
<i>Juniperus sp.</i>						
<i>Juniperus virginiana</i>						
<i>Juniperus x media</i>						
<i>Kalmia sp.</i>						
<i>Kerria japonica</i>				1.5 (1 - 2) n2		
<i>Lagerstroemia indica</i>						
<i>Larix sp.</i>						
<i>Lavandula sp.</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Leucanthemum maximum</i>				2.0 (2 - 2) n3		
<i>Leucanthemum x superbum</i>						
<i>Leucothoe sp.</i>						
<i>Leymus arenarius</i>			1.0 (1 - 1) n1			
<i>Ligustrum lucidum</i>						
<i>Ligustrum sp.</i>						
<i>Lilium Asiatic Hybrids</i>						
<i>Lilium sp.</i>						
<i>Liriope muscari</i>						
<i>Liriope sp.</i>						
<i>Liriope spicata</i>						
<i>Lonicera sp.</i>				2.0 (1 - 3) n3		
<i>Magnolia grandiflora</i>						
<i>Magnolia sp.</i>						
<i>Mahonia aquifolium</i>						
<i>Malus sp.</i>				1.0 (1 - 1) n1		
<i>Mammillaria sp.</i>				2.0 (1 - 4) n3		
<i>Miscanthus sinensis</i>						
<i>Miscanthus sp.</i>						
<i>Muhlenbergia capillaris</i>				1.5 (1 - 2) n2		
<i>Muhlenbergia dubia</i>				3.5 (2 - 5) n2		
<i>Muhlenbergia dumosa</i>						
<i>Muhlenbergia rigens</i>						
<i>Myrica cerifera</i>						
<i>Myrica pensylvanica</i>				1.0 (1 - 1) n2		
<i>Narcissus sp.</i>				1.3 (1 - 2) n3		
<i>Nassella tenuissima</i>						
<i>Nepeta x faassenii</i>						
<i>Nerium oleander</i>						
<i>Ophiopogon jaburan</i>						
<i>Ophiopogon sp.</i>				1.0 (1 - 1) n2		
<i>Osmanthus heterophyllus</i>				2.0 (2 - 2) n1		
<i>Osmunda regalis</i>	4.0 (4 - 4) n1			2.5 (2 - 3) n2		
<i>Osteospermum sp.</i>						
<i>Oxydendrum arboreum</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid-p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Pachysandra terminalis</i>						
<i>Paeonia lactiflora</i>						
<i>Paeonia sp.</i>				1.6 (1 - 4) n5		
<i>Panicum virgatum</i>			1.0 (1 - 1) n1			
<i>Pelargonium x domesticum</i>						
<i>Pennisetum alopecuroides</i>						
<i>Pennisetum orientale</i>						
<i>Pennisetum setaceum</i>						
<i>Pennisetum sp.</i>						
<i>Penstemon sp.</i>				2.3 (1 - 3) n3		
<i>Perovskia atriplicifolia</i>						
<i>Philadelphus sp.</i>				2.0 (1 - 3) n2		
<i>Phlox paniculata</i>				4.0 (4 - 4) n1		
<i>Phlox stolonifera</i>						
<i>Phoenix roebelinii</i>						
<i>Photinia sp.</i>				2.0 (1 - 3) n2		
<i>Physocarpus opulifolius</i>						
<i>Physocarpus sp.</i>						
<i>Picea abies</i>						
<i>Picea glauca</i>				1.0 (1 - 1) n1		
<i>Picea glauca 'Conica'</i>						
<i>Picea omorika</i>						
<i>Picea sp.</i>					2.0 (1 - 4) n3	
<i>Pieris japonica</i>						
<i>Pinus nigra</i>						
<i>Pinus sp.</i>					1.3 (1 - 2) n3	
<i>Pinus strobus</i>						
<i>Pinus sylvestris</i>						
<i>Pinus taeda</i>				1.5 (1 - 2) n2		
<i>Platanus sp.</i>						2.0 (2 - 2) n1
<i>Platycodon grandiflorus</i>						
<i>Polygonatum odoratum</i>						
<i>Populus sp.</i>					2.3 (1 - 4) n3	
<i>Portulaca grandiflora</i>						
<i>Portulacaria sp.</i>				2.0 (1 - 3) n2		

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid-p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Prunus laurocerasus</i>						
<i>Prunus serotina</i>						
<i>Prunus sp.</i>					1.0 (1 - 1) n2	1.0 (1 - 1) n1
<i>Pseudotsuga menziesii</i>						
<i>Pulmonaria sp.</i>						
<i>Pyracantha sp.</i>						
<i>Pyrus communis</i>						
<i>Quercus acutissima</i>				2.0 (2 - 2) n2		
<i>Quercus nuttallii</i>				3.0 (2 - 4) n2		
<i>Quercus palustris</i>						
<i>Quercus rubra</i>						
<i>Quercus shumardii</i>						
<i>Quercus sp.</i>	1.0 (1 - 1) n2				1.7 (1 - 3) n6	1.0 (1 - 1) n1
<i>Quercus virginiana</i>						
<i>Rhamnus sp.</i>						
<i>Rhaphiolepis indica</i>						
<i>Rhodiola pachyclados</i>						
<i>Rhododendron sp.</i>					2.7 (2 - 3) n3	
<i>Rosa sp.</i>						
<i>Rosmarinus officinalis</i>						
<i>Rubus calycinoides</i>						
<i>Rudbeckia fulgida var. speciosa</i>						
<i>Rudbeckia hirta</i>				3.3 (3 - 4) n3		
<i>Rudbeckia sp.</i>				4.0 (3 - 5) n2		
<i>Rumohra adiantiformis</i>						
<i>Sabal minor</i>				1.0 (1 - 1) n2		
<i>Saccharum ravennae</i>						
<i>Saccharum sp.</i>						
<i>Salix sp.</i>					2.3 (1 - 3) n3	1.0 (1 - 1) n1
<i>Salvia nemorosa</i>				3.0 (2 - 4) n4		
<i>Salvia sp.</i>						
<i>Sambucus sp.</i>						
<i>Santolina chamaecyparissus</i>						
<i>Schizachyrium scoparium</i>						
<i>Sedum acre</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid- p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Sedum album</i>						
<i>Sedum hybridum</i>						
<i>Sedum kamtschaticus</i>						
<i>Sedum rupestre</i>						
<i>Sedum sexamgulare</i>						
<i>Sedum sp.</i>				3.3 (2 - 4) n3		
<i>Sedum spathulifolium</i>						
<i>Sedum spurium</i>						
<i>Sempervivum sp.</i>						
<i>Solanum sp.</i>						
<i>Solidago caesia</i>						
<i>Solidago sp.</i>				3.3 (3 - 4) n3		
<i>Solidago speciosa</i>						
<i>Sorghastrum nutans</i>						
<i>Spiraea japonica</i>						
<i>Spiraea sp.</i>						
<i>Sporobolus heterolepis</i>						
<i>Stachys byzantina</i>						
<i>Stipa sp.</i>						
<i>Stokesia sp.</i>						
<i>Stromanthe sp.</i>				1.5 (1 - 2) n2		
<i>Syringa sp.</i>	2.0 (2 - 2) n2					
<i>Tagetes erecta</i>						
<i>Taxodium distichum</i>				2.0 (2 - 2) n1		
<i>Taxus cuspidata</i>					1.0 (1 - 1) n3	
<i>Taxus sp.</i>						
<i>Taxus X media</i>						
<i>Teucrium chamaedrys</i>				3.0 (1 - 5) n2		
<i>Thuja occidentalis</i>						
<i>Thuja sp.</i>						
<i>Thymus serpyllum</i>						
<i>Trachelospermum asiaticum</i>						
<i>Trachelospermum jasminoides</i>				1.5 (1 - 2) n2		
<i>Trachycarpus fortunei</i>				1.0 (1 - 1) n2		
<i>Tsuga canadensis</i>						

Crop Latin Name	SureGuard 51WDG (Flumioxazin)	Tank Mix: Gallery DF + Pendulum EC (isoxaben + pendi	Tank Mix: Gallery SC + Pendulum 2G (Isoxaben + pendi	Tower (Dimethenamid-p)	V-10233 76WG (Flumioxazin + pyroxasulfone)	V-10336 61_5WG (Flumioxazin + pyroxasulfone)
<i>Tsuga sp.</i>						
<i>Tulbaghia violacea</i>						
<i>Tulipa sp.</i>				2.0 (1 - 3) n3		
<i>Ulmus parvifolia</i>						
<i>Ulmus sp.</i>						
<i>Vernonia noveboracensis</i>						
<i>Viburnum sp.</i>	3.0 (3 - 3) n1					
<i>Vinca major</i>						
<i>Vinca minor</i>						
<i>Vinca sp.</i>						
<i>Washingtonia robusta</i>				2.0 (2 - 2) n1		
<i>Wisteria sp.</i>				1.0 (1 - 1) n2		
<i>Wodyetia bifurcata</i>						
<i>Zelkova serrata</i>				1.0 (1 - 1) n2		
<i>Zephyranthes sp.</i>						
<i>Zinnia angustifolia</i>						
<i>Zinnia sp.</i>				4.0 (4 - 4) n1		