



Ornamental Horticulture Program Research Project Sheet

<http://ir4.rutgers.edu/Ornamental/ornamentalProjectInformationSheets.cfm>

Project Name: Pre Emergent Herbicide Crop Safety – Flumioxazin + pyroxasulfone

New	Ongoing	X	Completed	Duration if ongoing or completed:	2013-2014
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Project Description:
 The Pre-Emergent Herbicide Crop Safety Project began in 2004 and has continued through 2015. 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 flumioxazin + pyroxasulfone.

Research Project Abstract (if available):

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)
 V-10336 76WG

Product Registration and Research Status		Registration Status
Labeled & Commercialized	Wide range of ornamental horticulture crops listed	
Labeled & Commercialized	Opportunity to add additional ornamental horticulture crops	
Labeled But NOT Commercialized	Not yet registered or labeled	V-10336 76WG
No longer available for development		
* IR-4 Data contributed to registration decision – either adding pest to label or not pursuing further research		
1 At least one crop species screened fully		
2 Product not available for production ornamentals		

Other:

Project Pros	Project Cons
1	1

IR-4 Crop Safety Trials to Date

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 (*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.

Plant Group	Crop	V-10336 76WG (Flumioxazin + pyroxasulfone)
Deciduous Tree/Shrub/Vine	Maple (Acer sp.)	1.0 (1 - 1) n1
	Horse Chestnut (Aesculus sp.)	1.0 (1 - 1) n1
	Birch (Betula sp.)	2.0 (2 - 2) n1
	Red Bud, Western (Cercis reniformis)	3.0 (3 - 3) n1
	Dogwood (Cornus sp.)	1.5 (1 - 2) n2
	Hawthorn (Crataegus sp.)	1.0 (1 - 1) n1
	Ash (Fraxinus sp.)	2.0 (2 - 2) n1
	Maidenhair Tree (Ginkgo biloba)	2.0 (2 - 2) n1
	Walnut, Black (Non-Bearing) (Juglans nigra)	1.0 (1 - 1) n1
	Plane Tree, Sycamore (Platanus sp.)	2.0 (2 - 2) n1
	Aspen, Poplar (Populus sp.)	2.0 (2 - 2) n1
	Cherry (Non-Bearing) (Prunus sp.)	1.0 (1 - 1) n2
	Oak (Quercus sp.)	1.0 (1 - 1) n1
Willow (Salix sp.)	1.0 (1 - 1) n1	
Narrowleaf Evergreen Tree/Shrub	Yew, Japanese (Taxus cuspidata)	1.0 (1 - 1) n1