

EVALUATION OF FOLIAR DAMAGE FROM FUSILADE 2000 TO SEVERAL WOODY ORNAMENTALS

by David Hensley

Fusilade (fluazifop-butyl), a selective postemergent herbicide for grass control, has gained widespread use in the landscape maintenance and nursery markets. Although the 1985 label for Fusilade 4E listed its use as being safe for over-the-top application to some 415 ornamental species and cultivars, foliar damage has been reported on some landscape ornamentals (1, 2, 3, 4, 5, 6).

A new formulation, Fusilade 2000 (fluazifop-P-butyl), has been released and will replace the familiar 4E formulation. Svenson et al. (7) evaluated phytotoxicity of Fusilade 2000 on 22 container-grown ornamental species. No or no significant injury occurred on most plants evaluated; however, *Photinia* × *fraseri*, *Prunus cerasifera* 'Atropurpurea,' *Prunus cistinea*, and *Spiraea* × *bumalda* did show foliar distortion, chlorosis, and necrosis.

To expand the information on potential phytotoxicity, Fusilade 2000 was applied (over-the-top) at 0.25 and 1.0 lbs ai. per acre in 30 gallons water per acre to 16 field-grown woody ornamental species (Table 1) in a replicated study in June 1985. There was no evidence of foliar damage at either rate of Fusilade 2000 at two or four weeks after application. Most of the species initiated normal new growth during the evaluation period. Fusilade 2000 appeared safe for use on all species evaluated at the rates tested.

Literature Cited

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Table 1. Field grown woody ornamentals evaluated for phytotoxicity (% leaf damage) of Fusilade 2000. No damage resulted from 0.25 or 1.0 lbs ai/A either 2 or 4 weeks after application.

<i>Acer platanoides</i>	Norway maple
<i>Acer ginnala</i> 'Flame'	'Flame' amur maple
<i>Betula pendula</i>	European white birch
<i>Berberis thunbergii</i> var. <i>atropurpurea</i>	Redleaf Japanese barberry
<i>Celtis occidentalis</i>	Hackberry
<i>Cercis canadensis</i>	Eastern redbud
<i>Cornus sanguinea</i>	Bloodtwig dogwood
<i>Chaenomeles speciosa</i>	Flowering quince
<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Thornless honeylocust
<i>Koelreuteria paniculata</i>	Golden raintree
<i>Pinus sylvestris</i>	Scotch pine
<i>Sophora japonica</i>	Japanese pagodatree
<i>Sorbus americana</i>	American mountain ash
<i>Viburnum lantana</i>	Wayfaringtree viburnum
<i>Viburnum lentago</i>	Nannyberry viburnum

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