

BOXWOOD (*Buxus microphylla japonica* ‘Winter Gem’)
(*Buxus sempervirens* ‘Suffruticosa’)
(*Buxus* x ‘Green Velvet’)

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**Crop Safety for Boxwood Blight Fungicides, 2014.
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Evergreen boxwoods (*Buxus microphylla japonica* ‘Winter Gem’, *Buxus sempervirens* ‘Suffruticosa’ and *Buxus* x ‘Green Velvet’) in one-gallon containers were used for this experiment. Pots were spaced 1 foot apart on a weed cloth covered gravel bed located at the Botany and Plant Pathology Field Laboratory, Corvallis, OR. Fungicide treatments were arranged in a randomized complete block design where each fungicide treatment (experimental unit) consisted of 3 potted plants which was replicated 10 times for each of 3 cultivars. Fungicides were applied using a Stihl-Pump-Style backpack sprayer equipped with a cone nozzle such that 1 gal of a spray suspension was applied per 30 plants (approximately 4.25 oz/pot). Treatments were applied on 28 Apr, 12 May, and 28 May. No fertilizer, insecticides or herbicides were applied to plants in pots. Pots were hand watered as needed during the duration of the trial. Phytotoxicity was evaluated twice a week during the course of the experiment. The height of each plant was recorded on 24 Apr and 17 Jun.

Spring growing conditions were warm and wet after record cold temperatures and snow during the dormant season. Boxwood plants started to bloom 3 Mar and were finished by the first week in April. Many plants started to push new shoots on 17 Mar and were growing vigorously by 14 Apr. Phytotoxicity or chemical residues were not observed on any plants or treatments during the course of the experiment. Plant height was not significantly affected by any of the 11 chemical treatments. In general, plants increased in size by 5.2, 2.0 and 3.2 cm for *B. m. j.* ‘Winter Gem’, *B. s.* ‘Suffruticosa’, and *Buxus* x ‘Green Velvet’, respectively.

PR #	Treatment and rate/100 gal	Change in Plant Height (cm)*		
		<i>B. m. j.</i> ‘Winter Gem’	<i>B. s.</i> ‘Suffruticosa’	<i>Buxus</i> x ‘Green Velvet’
-----	Non-treated.....	6.5	1.9	2.9
31614	Concert II SE at 35 fl oz.....	6.2	1.8	2.6
31614	Concert II SE at 70 fl oz.....	4.5	1.9	3.3
31494	Medallion 50 WDG at 4 oz....	4.8	1.8	3.4
31494	Medallion 50 WDG at 8 oz....	5.0	1.4	3.3
31492	Tourney50 WDG at 4 oz.....	4.4	2.4	3.5
31492	Tourney50 WDG at 8 oz.....	3.8	2.3	4.0
31495	Trinity 2 SC at 12 fl oz.....	5.2	2.8	3.9
31495	Trinity 2 SC at 24 fl oz.....	6.5	1.5	3.2
13745	Heritage 50 WG at 8 oz.....	5.9	0.8	3.0
-----	Heritage 50 WG at 8 oz plus Silwet L-77 at 6.4 fl oz.....	4.0	1.9	2.5
31491	Torque 3.6 SC at 12 oz.....	6.0	2.4	3.1

* Means without letters do not differ significantly ($P=0.05$).