

HAZELNUT (*Corylus avellana* ‘Ennis’)

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Evaluation of chlorothalonil tank mixes for phytotoxicity on hazelnut, 2015.

Healthy one-year-old ‘Ennis’ hazelnut trees (whips) were transplanted into one gallon pots on 10 Mar and placed on a “nursery pad” at the Botany and Plant Pathology Field Laboratory, Corvallis, OR. Treatments were arranged in a randomized complete block design. Each treatment consisted of 4 single tree replicates. Fungicides were applied to trees until runoff, using a hand held pump-style sprayer. Approximately 20 to 25 fl oz of a spray suspension was used per 4 trees. Fungicide treatments were applied on 19 Apr (bud break), 22 Apr and 7 May for a total of 3 applications. Trees were not fertilized. Supplemental irrigation was provided as needed starting 18 May. The amount of sunburn on leaves was rated on 3 Aug where 0 = no burn, 1 = < 10% leaves with necrotic tips and margins, 2 = < 25% leaves with necrotic tips and margins, 3 = < 50% leaves with necrotic tips and margins, 4 = > 50% leaves with necrotic tips and margins.

Spring and summer growing conditions were considered warm and dry with several high heat events during the summer. All trees had some degree of sunburn, first notice on 13 Jul, which resulted in necrotic leaf tips and margins. There was no significant difference in sunburn rating among the various treatments.

Treatment and Rate/100 gal water ^x	Sunburn Rating ^z
	3 August
Nontreated	1.5 ^y
Bravo Weather Stik at 64 fl oz.....	1.5
Bravo Weather Stik at 64 fl oz plus Silwet L-77 at 6.4 fl oz.....	2.0
Bravo Weather Stik at 64 fl oz plus Nu-Film-P at 6 fl oz.....	1.0
Bravo Weather Stik at 64 fl oz plus Latron B-1956 at 4 fl oz.....	1.8
Equus DF at 1.2 lb	1.5
Equus DF at 1.2 lb plus Silwet L-77 at 6.4 fl oz.....	1.3
Equus DF at 1.2 lb plus Nu-Film-P at 6 fl oz.....	1.5
Equus DF at 1.2 lb plus Latron B-1956 at 4 fl oz.....	1.5

x Fungicide treatments were applied on 19 Apr (bud break), 22 Apr and 7 May for a total of 3 applications.

y Means without letters do not differ significantly based on Fisher’s protected LSD ($P=0.05$).

z The amount of sunburn on leaves was rated on 3 Aug where 0 = no burn, 1 = < 10% leaves with necrotic tips and margins, 2 = < 25% leaves with necrotic tips and margins, 3 = < 50% leaves with necrotic tips and margins, 4 = > 50% leaves with necrotic tips and margins.