

HAZELNUT (*Corylus avellana* 'Ennis')
Eastern Filbert Blight; *Anisogramma anomala*

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Evaluation of Procure for control of eastern filbert blight, 2004 - 2005.

Healthy appearing 2-year-old 'Ennis' hazelnut trees were planted on 9 to 10 Feb 04 adjacent to a commercial block of diseased 'Ennis' trees located north of Keiser, OR. Treatments were arranged in a randomized complete block design. Each treatment consisted of 8 single tree replicates. Fungicide suspensions were applied on two sides of the tree to runoff with a backpack sprayer equipped with a hand wand. Approximately 0.9 gal of a spray suspension was used per 8 trees. Fungicide treatments were applied on 11 Mar 04 (bud break), 24 Mar 04, 7 Apr 04, and 21 Apr 04 for a total of 4 applications. Roundup ULTRAMAX at 2 gal/100 gal water was used between trees to control weeds on 1 Apr 04. Trees were fertilized with Triple 16 (16-16-16-6) at a rate of 1 lb/3 trees on 21 Apr 04. Trees were painted with at 50% solution of white latex paint on 29 Apr 04 on the southwest side of the trunk to prevent summer and winter sunburn. Supplemental irrigation was provided as needed during the 2004 growing season. The number of EFB cankers and total length of all cankers/tree was determined on 12 July 05.

Early spring weather was considered dry and rainfall was below normal. Spore counts were low during the entire spring infection period. No cankers developed on any trees. Few if any conclusions can be gleaned from this data set. Lack of disease may have been due to a combination of low spore numbers (similar to 1999 spring conditions), dry weather and/or overspray from the neighboring commercial orchard. Substantial disease did develop on test trees at NWREC.

Treatment and Rate/100 gal water	Ave Number of Cankers/Tree*	Total Canker Length/Tree* (cm)
Nontreated	0	0
Bravo Weather Stik at 32 fl oz.....	0	0
Procure 50 WS at 2 oz.....	0	0
Procure 50 WS at 3 oz.....	0	0
Procure 50 WS at 4 oz.....	0	0
Flint 50 WG at 1 oz	0	0

* Analysis of variance is based on log₁₀ (x+1) transformation. Means followed by the same letter do not differ significantly based on Fisher's protected LSD (P=0.05).

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