

EVALUATION OF FUNGICIDES FOR CONTROL OF EASTERN FILBERT BLIGHT, 2000 - 2001. Healthy two-year-old 'Royal' hazelnut trees were planted on 26 Jan 00 adjacent to and north of a commercial block of heavily diseased 'Barcelona' trees planted near North Plains, OR. Treatments were arranged in a randomized complete block design. Each treatment consisted of 9 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 1.5 gal of a spray suspension was used per 9 trees. Fungicide treatments were applied on 21 Mar 00 (bud break), 3 Apr 00, 17 Apr 00, and 1 May 00. Roundup at 2 gal/100 gal water was used between trees to control weeds on 12 Apr 00 and 14 Jun 00. Sawdust mulch was placed around the base of each tree on 15 May 00. Trees were also painted with a 50% solution of white latex paint on 1 Jun 00 on the southwest side of the trunk to prevent summer sunburn. The number of EFB cankers and total length of all cankers/tree was determined on 17 July 01.

Disease pressure in this block was similar to past years in comparable locations. All fungicide treated trees had significantly fewer cankers than nontreated trees except on trees treated with Elevate. In addition, trees treated with Abound or Elevate did not have total cankers lengths significantly lower than nontreated trees. Several sets of trees did not develop cankers including those treated with Bravo, Echo, Procure or Flint. The number of cankers that did develop on trees treated with Elite, Folicure, Indar, Ziram or BAS 500 were non significantly different from those trees that did not develop cankers. Labeled rates of Abound did not adequately control EFB. Trees treated with lime sulfur had significantly less EFB than nontreated trees but had significantly more than trees treated with Bravo. None of the fungicide treated trees showed any phytotoxicity during the first growing season.

Treatment and Rate/100 gal water	Ave Number of Cankers/Tree*	Total Canker Length/Tree* (cm)
Nontreated .....	2.2 a	28.7 a
Bravo Weather Stik at 32 fl oz.....	0.0 d	0.0 d
Echo 720 at 32 fl oz .....	0.0 d	0.0 d
Elite 45 DF at 2 oz.....	0.2 cd	3.1 cd
Folicure 3.6 F at 1.5 oz.....	0.3 cd	1.1 cd
Folicure 3.6 F at 2 oz.....	0.2 cd	2.7 cd
Indar 75 W at 1 oz + Latron B-1956 at 8 fl oz .....	0.1 d	0.8 d
Procure 50 WS at 1.5 oz.....	0.0 d	0.0 d
Procure 50 WS at 2 oz.....	0.0 d	0.0 d
Abound 2.08 F at 3 fl oz.....	1.2 b	15.2 ab
Flint 50 WG at 1 oz .....	0.0 d	0.0 d
Ziram 76 DF at 1.5 lb .....	0.3 cd	3.7 cd
Lime Sulfur (29%) at 32 oz .....	0.9 bc	9.9 bc
Elevate 50 WDG 0.5 lb.....	1.3 ab	18.0 a
BAS 500 at 3 oz .....	0.1 d	0.6 d
Silver Bullet at 5.25 gal.....	1.0 b	13.6 ab

\* Analysis of variance is based on log<sub>10</sub> (x+1) transformation. Values presented are detransformed means. Means followed by the same letter do not differ significantly based on Fisher's protected LSD (P=0.05).

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