

HAZELNUT (*Corylus avellana* ‘Ennis’ and ‘Butler’)  
Wood Decay; *Trametes versicolor*

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**Evaluation fungicides for management of hazelnut wood decay, 2016-17.**

Blocks of trees were already arranged in a randomized complete block design (see previous report entitled, “Whole orchard evaluation of pruning strategies for management of eastern filbert blight”). Each of 4 blocks consisted of 9 trees composed of 3 consecutive trees in a row and in 3 consecutive rows. Trees were cut one foot above the ground on 15 Feb 16. That same day, 3 stumps in each block were left non-treated while the cut surface of another 3 stumps were sprayed with a solution of Rally 40 WSP at 12 oz/100 gal water (3.4 grams/gal water) and 3 more stumps were sprayed with a solution of Topsin M WSB at 3 lb/100 gal (13.6 grams/gal water). Fungicides were applied using a Solo-Pump-Style backpack sprayer. Fungicide treatments were arranged in a randomized design within each block of trees (now stumps). Each treatment was applied to 3 stumps in each of 4 blocks for a total of 12 stumps. The number of stumps with fruiting bodies of *Trametes versicolor* was determined on 22 Mar 17.

The severely cut trees produced many sucker shoots in 2016 where 4 to 6 were selected during the 2016-2017 dormant season for continued growth. Fruiting bodies of *Trametes versicolor* were first observed on 27 Feb 17. More than half of the stumps for any treatment had fruiting bodies either on the cut surface or on the side. Fewer stumps had fruiting bodies on the northeast side when compared to the southwest side of the stump. The data suggests that entry into the stump was through sunburned tissue on the southwest side of the stump. An application of a white wash to prevent sunburn may help if growers adopt this practice of tree renewal.

Treatment and rate	Number of Stumps* with Fruiting Bodies on:			
	Cut Surface	Any Side	NE side	SW side
Non-treated.....	9/11	7/11	1/11	10/11
Rally 40 WSP at 12 oz/100 gal water.....	9/12	7/12	2/12	10/12
Topsin M WSB at 3 lb/100 gal water....	8/12	7/12	1/12	9/12

\* Number of stumps with fruiting bodies/number of total stumps.