

OAK (*Quercus alba* and *Q. bicolor*)
 Anthracnose; *Apiognomonina quercina*

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Comparison of fungicide timing for management of oak anthracnose, 2013.

Fungicide treatments were arranged in a completely randomized design in a block of white oak trees (*Quercus alba*) planted in 2011 on 10 x 20 ft spacing. Each treatment consisted of 7 single-tree replicates. The same fungicide treatments were arranged in a randomized complete block design in a block of swamp white oak trees (*Q. bicolor*) also planted in 2011 on 10 x 20 ft spacing. Each treatment consisted of 4 single-tree replicates. Fungicides were applied to trees (from two directions until runoff) using a Solo-Pump-Style backpack sprayer. Approximately 0.5 gal of a spray suspension was used per 7 trees within each treatment. Fungicide was applied to trees on 18 Apr (red tip to bud break) and again on 10 May. Goaltender (3 pt/A) plus Diuron (2 qt/A) plus Makaze (generic glyphosphate at 1 pt/A) was applied on 2 Apr for weed control. Fertilizer was applied to trees with 16-16-16 at 1 lb/tree on 18 Jun. The incidence of anthracnose was evaluated on 20 May by examining all leaves on 20 shoots (average 132 leaves with a range of 85 to 161), arbitrarily selected from each tree.

Spring growing conditions were unusually dry with 3 weeks of warm 80 F weather starting at the end of April just as oaks were breaking bud. Anthracnose was first observed on 29 April as subtle water soaking of leaves with some vein necrosis. Due to dry, warm weather very little disease developed. There were no significant differences in disease control among treatments for either species of oak (Tables 1 and 2).

Table 1. Incidence of anthracnose on white oak trees (*Quercus alba*).

Treatment & Rate/100 gal water	# of Applications	Leaves with Anthracnose (%)*
		20 May
Non-treated	0	0.9
Daconil Weather Stik at 1.4 pt.....	1	0.4
Daconil Weather Stik at 1.4 pt.....	2	0.8

* Means without letters did not differ significantly based on LSD (P=0.05).

Table 2. Incidence of anthracnose on swamp white oak trees (*Quercus bicolor*).

Treatment & Rate/100 gal water	# of Applications	Leaves with Anthracnose (%)*
		20 May
Non-treated	0	2.0
Daconil Weather Stik at 1.4 pt.....	1	0.8
Daconil Weather Stik at 1.4 pt.....	2	0.5

* Means without letters did not differ significantly based on LSD (P=0.05).