Abstract

A controlled droplet size sprayer was compared to a conventional air carrier sprayer using the same amount of material per acre in 30 gallons of water compared to 100 gallons of water per sprayed acre. Alternate rows were sprayed. In 1986 there were no significant differences in sprayer or material as measured by walnuts that were infected with walnut blight.

Objective

As part of a continuing project to better understand walnut blight control and to develop the most practical method of accomplishing it, a plot was designed to compare two copper hydroxide formulations and two types of spray equipment using different rates of carrier per acre.

Procedure

Five replications of 25 trees each with guard rows on either side with three treatments were compared for walnut blight control. The treatments were 10 pounds per acre of Champion copper hydroxide applied in 50 gallons of water per acre by a control droplet size sprayer, 10 pounds of Champion copper hydroxide applied in 100 gallons of water per acre by an air carrier sprayer and 10 pounds per acre of Kocide 101 copper hydroxide applied in 100 gallons of water per acre by an air carrier sprayer.

Results

There were no significant differences in walnut blight control between types of spray rigs applying the materials nor between the different formulations of copper hydroxide.

Conclusions

Under conditions of light walnut blight pressure, the 1986 trials suggest that differences in materials and equipment are not to important. This type of trial will be continued through a season with high walnut blight pressure to try and determine if equipment or material are more important under adverse conditions.

Budget

Non-funded project.