

COPPER IONIZATION ON AIRBOOM SPRAYERS

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Abstract

Electric generated copper ions are produced in the sprayer to create positive charges in the water causing the spray particle to attach better to the plant.

Introduction

Methods for spraying cotton have changed over the years. Airtec Sprayers developed an airblast air boom in 1991. Tests have been done by the USDA and have shown that the Airtec sprayer gets the best coverage of those tested. In 1998 we added the copper ionization system, which improved coverage and at the same time added a fungicide to the spray. This also descales the sprayer for better and easier maintenance of the sprayer.

Discussion

Where we have installed units on sprayers we have noticed better plant quality, better insect control and lower maintenance on the sprayer. Sprayers had less drift from wind and better adhesion of spray on plants. The system can also be added to conventional sprayers to improve the spray coverage.

Summary

The use of copper ionization on the Airtec Air Boom or conventional sprayers improves coverage of spray, adds fungicides and improves maintenance on the sprayer.