SCREENING STRATEGY FOR MAINTAINING PURITY AND SEED QUALITY IN A COTTON BREEDING NURSERIES
Ryan Allen Gregory
Texas Tech University
Lubbock, TX
Jane K. Dever
Texas A&M AgriLife Research
Lubbock, TX

Abstract

A screening method is being developed to accurately phenotype glyphosate resistant transgenic cotton plants in conventional cotton breeding nurseries. Broadcast glyphosate applications were made to induce herbicide damage symptoms in non-resistant plants to distinguish from resistant plants. Two glyphosate rates were evaluated at three different timings to identify resistant plants and potential subsequent impacts on harvested cotton seed viability.