

2005 Project Summary
Alabama Cotton Commission

TITLE: Evaluation of Cold Tolerant and Conventional Cotton Varieties and Planting Dates

PROJECT LEADERS: Dennis Delaney, Charles Burmester, and Dale Monks

The objective of this project was to determine if new “cold-tolerant” varieties were of value to Alabama producers. A series of four experiments were conducted across the state to determine if there were any advantages for these new varieties. At the Tennessee Valley, Prattville, Gulf Coast, and Wiregrass research stations, at least two varieties (one early, one full-season) each of “cold-tolerant” and conventional varieties were planted on three dates, Plant stands, yield, turnout, and lint quality were measured.

RESULTS:

For the Tennessee Valley test, stands were lower for the first planting, but two varieties (one cold-tolerant and one conventional) did have better stands than the others. However, there was no significant difference in yields between varieties planted on the same date. At Prattville, the two cold-tolerant varieties and a conventional had better stands for one of the planting dates, but this did not affect yield. For the Gulf Coast, stand results were similar to the Tennessee Valley, but again there was not a strong correlation with yield. At the Wiregrass, stands were better at the last planting date, but there was little difference between varieties planted on the same date. Lint yield was affected by the planting date, but there were few differences between varieties planted on the same date. Most lint quality differences in all tests were due to the different varieties, and little affected by the planting date for the same variety.