

SPINNING PERFORMANCE OF EXTRA LONG STAPLE UPLAND

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Abstract

The Cotton Improvement Laboratory (CIL), Texas Agrilife Research Center, has developed Extra Long Staple (ELS) upland, *Gossypium hirsutum*, cotton that equals the length of American pima, *G. barbadense*, and has made meaningful progress in developing uplands with fiber strength equaling pima. Eight ELS upland lines along with FiberMax 832LL were evaluated for HVI and AFIS fiber quality and spinning performance during 2006 and 2007. All ELS upland lines exhibited longer fiber lengths and two had greater bundle strength than FiberMax 832LL. All eight lines produced stronger 50s carded yarn than the control. One of the eight ELS upland lines used in this study, B182-33, along with seven other TAM ELS upland lines are proposed for release.