

**THE EFFECT OF COLOR
ON THE OPTICAL MASS OF COTTON BEARDS**

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Abstract

International interlaboratory test results show significant fiber color effects on differences in strength measurements using Stelomer and HVI. Dyed fibers were used to evaluate the effect of fiber color on the optical mass measurements made by HVI systems. Cottons were dyed to within the Rd and +b ranges of the cotton colorimeter chart. Significant correlations were found between color parameters (Rd and +b) and weight estimations based on optical readings. Corrections are possible to minimize the effect of color in optical mass measurements.

A summary of the Discussion and Results for this paper is included in "A Reference Test for HVI Strength Measurements - Implications for HVI Testing," which is also included in these Proceedings.