

ESTIMATING FIBERS/SEED: IS FINENESS BETTER THAN MICRONAIRE?

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Abstract

Cotton fineness (linear density) is a trait in high demand by yarn spinners. They desire more fibers per cross section to increase yarn strength. It is possible to breed for finer fibers but at the expense of yield. One possible area to maintain yield while achieving finer fibers is to increase the number of fibers/seed. This estimate is formulated by the $(\text{weight of fiber/seed})/(\text{weight of one fiber})$. This paper will be about examining the relative merits of using micronaire or fineness for calculating the weight of one fiber. It will conclude with applications for breeding programs.