

RESPONSE OF COTTON TO PGR TREATMENT UNDER DIFFERING DRIP IRRIGATION REGIMES

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Abstract

A study was conducted at the Texas AgriLife Research Farm, near College Station, Texas, to interface sub-surface drip irrigation and plant growth regulator use. Treatments consisted of two plant growth regulators (Stance® 2.5oz/A and Pentia® 16oz/A) and an untreated control across three irrigation strategies (Full, 26 acre inches: Partial, 18.6 acre inches: Rain-fed, 7.5 acre inches of rainfall). Plots were evaluated on certain plant measurements, yield, and fiber quality. Significant differences occurred among plant measurements, fiber quality, and yield.