




U of A DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

COUNTY VARIETY TRIAL

(Clay County)

Crop:	Cotton	Producer:	Eric Scott
Location:	Piggott	GPS:	36.398629, -90.117986
Soil Type:	Fountain Silt Loam	Row Width:	38 inches
Previous Crop:	Cotton	Row Length:	1250 feet (48 rows) 4.3618 acres
Planting Date:	5/1/2023	Planting Rate:	48,000 seeds/acre
Irrigation:	Furrow	Harvest Date:	October 17, 2023

Pesticide	Fertilizer (N-P-K-S-Zn)
FirstShot + Dicamba + RoundUp	300 lbs 0-24-36
RoundUp + Liberty	100 units of 28% liquid N
Transform, Dual	
Pix, Transform, Bifenthrin	
Def, Dropp, Prep	

Variety	Lint Yield (lb/acre)	Turnout (%)	Grade	Staple	Mic	Strength (g/tex)	Uniformity	Loan Rate (cents/lb)	Income (\$/acre)
NG 3195 B3XF	1409	48.72	31-2	37.9	4.2	30.6	83.0	57.04	804.08
DP 2115 B3XF	1468	50.04	32-2	38.0	4.5	31.1	82.7	56.78	833.70
ST 4595 B3XF	1376	44.59	31-1	37.6	4.6	29.5	82.4	56.45	776.89
DG 4484 B3TXF	1264	48.27	31-1	36.8	4.3	30.1	82.7	57.07	721.33

Average income per acre does not reflect total income per acre. Farmers will receive a gin rebate plus the cotton buyers will purchase equity in the cotton from the farmers. Small plot cotton variety trials are conducted all throughout the south and in Arkansas, but little info is available with regard to the influence of fiber quality from a commercial ginned study. The Big Block Cotton Plot was implemented on Eric Scott's farm. We planted 48 rows of 4 different cotton varieties from 4 different companies on May 1, 2023. Eric treated this field just like any other cotton field throughout the growing season. At the end of the season, the cotton varieties were picked according to readiness. 48 rows (4.3618 acres) were picked out of each variety. The round bale modules were then taken to Graves Gin where they were ginned separately. Michelle Copeland at Graves Gin worked hard to sell the modules individually and put them into the loan separately. This allowed us to be able to see the quality of each of the varieties of cotton and not just the yield. It helped to see the income per acre, lint yield, leaf grade, turnout, staple, strength, mic, and uniformity. Discounts associated with excessive leaf and micronaire are common in Arkansas, so that is one thing that made this plot stand out. It showed the leaf and micronaire of each variety to help farmers compare varieties not just by quantity, but by quality. Sampling and selling each variety separately shows the differences in quality of each as well as the yield and the price earned from each acre. All varieties defoliated and performed well, but there were differences in leaf. These differences were associated with variety characteristics. Some varieties may be high lint yielders, but others may be better quality and bring more dollars per acre even though they might not have picked as much as another variety.