





 DIVISION OF AGRICULTURE
 RESEARCH & EXTENSION
 University of Arkansas System
COUNTY VARIETY TRIAL
 (Clay County)

Crop:	Cotton	Producer:	Luke Yount
Location:	Pollard	GPS:	36.465542, -90.2273668
Soil Type:	Falaya Silt Loam	Row Width:	38 inches
Previous Crop:	Corn	Row Length:	1280 feet (96 rows) 9 acres
Planting Date:	5/13/2024	Planting Rate:	43,500 seeds/acre
Irrigation:	Furrow	Harvest Date:	October 21, 2024

Pesticide (rate per acre)	Fertilizer (N-P-K-B)
Roundup (32 oz), Dual (16 oz) fb Roundup, Liberty (32 oz), fb Engenia	100-45-24-1
Bidrin (8 oz), Transform (2 oz), Acephate (.75 lb.), Bifenthrin (6 oz),	
Acephate (.75 lb.), Bifenthrin (6 oz)	
Pix (6 oz), Pix (24 oz), Pix (32 oz), Pix (32 oz), Pix (24 oz)	

Variety	Lint Yield (lb/acre)	Turnout (%)	Grade	Staple	Mic	Strength (g/tex)	Uniformity	Loan Rate (cents/lb)	Income (\$/acre)
DP 2115 B3XF	1680	44.67	31-1	36.00	4.20	29.65	82.10	55.8387	927.30
NG 3457 B3XF	1498	43.64	31-1	36.43	4.16	29.14	81.79	56.0696	840.25
ST 6000 AXTP	1488	42.46	31-1	37.00	4.04	31.04	82.01	56.6982	843.62
DP 2127 B3XF	1619	44.68	31-1	36.00	4.33	29.23	82.23	55.9113	905.53

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 Luke Yount's farm. We planted 96 rows of 4 different cotton varieties from 3 different companies on May 13, 2024. Luke 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. 96 rows 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