




  
**COUNTY VARIETY TRIAL**  
 (Clay County)

<b>Crop:</b>	Cotton	<b>Producer:</b>	Eric Scott
<b>Location:</b>	Piggott	<b>GPS:</b>	36.384075, -90.125361
<b>Soil Type:</b>	Fountain Silt Loam	<b>Row Width:</b>	38 inches
<b>Previous Crop:</b>	Cotton	<b>Row Length:</b>	1908 feet
<b>Planting Date:</b>	5/10/2022	<b>Planting Rate:</b>	46,000 seeds/acre
<b>Irrigation:</b>	Furrow	<b>Harvest Date:</b>	October 22, 2022

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	Stand Counts (plants/acre)	Lint Yield (lb/acre)	Turnout (%)	Grade	Staple	Mic	Strength (g/tex)	Uniformity	Loan Rate (cents/lb)	Income (\$/acre)
ST 4595 B3XF	22,000	1648	41.58	21-1	38.0	4.2	29.6	81.0	56.75	\$935.41
DP 2239 B3XF	24,000	1518	41.86	11-2	38.0	3.9	30.6	81.1	57.07	\$866.57
NG 3195 B3XF	31,000	1332	42.85	21-1	37.0	3.6	30.5	81.6	57.04	\$760.27
DP 2115 B3XF	26,000	1334	44.03	21-1	37.0	3.6	29.6	81.5	56.52	\$754.13
Armor 9608 B3XF	25,000	1318	39.15	21-1	37.0	4.0	29.1	80.3	56.84	\$749.29
ST 5091 B3XF	32,000	1218	42.00	21-1	37.0	3.6	29.9	80.8	56.85	\$692.91
Armor 9371 B3XF	35,000	1209	38.84	11-2	37.0	3.9	29.7	81.7	57.05	\$689.97
NG 3299 B3XF	38,000	1135	42.10	11-2	37.0	3.8	32.1	82.3	57.23	\$649.83
DG 3456 B3XF	27,000	1122	41.99	21-1	37.0	3.7	28.8	81.1	56.96	\$639.46
DG 3511 B3XF	32,000	882	39.39	21-1	37.0	3.7	30.9	82.0	57.04	\$503.42

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 10 different cotton varieties from 5 different companies on May 10, 2022. 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. Thirty-six rows (4.99 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.