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**COUNTY VARIETY TRIAL**  
(Clay County)

<b>Crop:</b>	<b>Cotton</b>	<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>	Corn	<b>Row Length:</b>	1908 feet
<b>Planting Date:</b>	5/10/2021	<b>Planting Rate:</b>	46,000 seeds/acre
<b>Irrigation:</b>	Furrow	<b>Harvest Date:</b>	October 21-22, 2021

Pesticide	Fertilizer (N-P-K-S-Zn)
Paraquat	350 lbs of 0-24-36
RoundUp + Liberty	100 units of liquid N
Dual	
Transform	
Pix, Prep, Def, Dropp	
Transform, Bidrin, Bifenthrin, Acephate	

Variety	Stand Counts	Lint Yield (lb/Acre)	Turnout %	Grade	Staple	Strength g/tex	Mic	Uniformity	Loan Rate Cents/Lb.	Per Acre Income
NG 3195 B3XF	35.7	1809.62	43.08	31-2	38.0	32.1	4.3	83.1	55.46	\$1003.62
DP 2038 B3XF	34.3	1572.55	40.70	31-2	36.1	31.2	4.6	81.2	56.35	\$886.13
Armor 9371 B3XF	34.3	1504.61	38.58	31-1	37.9	31.6	4.4	83.0	56.70	\$853.11
DG 3456 B3XF	34.7	1489.58	41.89	31-2	37.0	29.4	4.3	82.1	56.08	\$835.36
Armor 9608 B3XF	30.7	1452.91	37.96	31-2	37.0	29.8	4.3	81.3	55.19	\$801.86
DG 3644 B3XF	42.7	1423.85	38.74	31-2	39.0	33.4	4.7	82.0	55.01	\$783.26
PHY PX4B08 W3FE	40.7	1421.44	39.98	31-2	36.1	32.2	4.2	81.8	54.66	\$776.96
DP 2020 B3XF	38.7	1382.16	36.15	41-1	38.9	31.7	4.1	82.6	55.61	\$768.62
PHY 390 W3FE	41.3	1216.63	38.52	31-2	38.0	33.3	4.0	82.1	54.84	\$667.20
ST 4993 B3XF	38.3	1368.74	41.79	41-1	38.0	33.9	4.4	83.4	55.80	\$763.76
NG 4190 B3XF	38.0	1373.75	36.35	31-2	38.0	31.7	4.0	82.5	55.52	\$762.71
ST 5091 B3XF	38.3	1386.17	38.39	31-2	38.0	31.3	3.9	81.8	54.97	\$761.98

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 12 different cotton varieties from 6 different companies on May 10, 2021. 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 to try to make 4 round bale modules. The modules were then taken to Graves Gin where they were ginned separately. Barbi Anderson 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.