



COUNTY VARIETY TRIAL
(Clay County)

Crop:	Cotton	Producer:	David Cagle
Location:	Hargrave Corner	GPS:	36.266507, -90.189186
Soil Type:	Fountain Silt Loam	Row Width:	38 inches
Previous Crop:	Cotton	Planting Rate:	46,000
Planting Date:	5/3/2018	Harvest Date:	October 9, 2018
Irrigation:	Furrow		

Pesticide Rate per Acre and Product	Fertilizer (N-P-K-S-Zn)
Liberty + RoundUp	0-50-90
Dual + RoundUp	35 gallons of 28-0-0-4
Centric	
Acephate + Diamond	
Bidrin + Bifenthrin	

Variety	Lint Yield (lb/Acre)	Turnout %	Grade	Staple	Strength g/tex	Mic	Uniformity	Loan Rate Cents/Lb.	Per Acre Income
ST 5471 GLTP	1606.12	41.91	41-1	37.0	31.3	4.6	81.8	54.23	\$871.00
DP 1725 B2XF	1557.56	40.38	41-1	37.0	29.4	4.8	81.8	54.45	\$848.09
DG 3385 B2XF	1565.10	38.93	41-1	37.0	27.9	5.1	83.1	52.13	\$815.89
NG 3729 B2XF	1566.74	39.98	41-2	38.1	29.3	5.1	82.6	51.74	\$810.63
DP 1646 B2XF	1473.47	39.80	41-1	38.9	29.7	4.7	82.5	54.41	\$801.72
PHY 320 W3FE	1458.16	38.29	41-3	37.0	31.2	4.6	83.1	53.13	\$774.72
DG 3214 B2XF	1497.35	39.40	41-1	38.0	29.9	5.0	83.2	51.27	\$767.69
NG 5007 B2XF	1356.74	36.89	41-1	37.1	28.1	4.5	81.8	54.19	\$735.22
ST 5122 GLT	1361.84	36.42	41-1	36.0	30.6	4.7	81.0	53.88	\$733.76
PHY 300 W3FE	1366.33	44.57	41-3	36.9	31.3	4.9	82.4	53.38	\$729.35

Notes: 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 information is available with regard to the influence of fiber quality from a commercial ginned study. The Big Block Cotton Plot was implemented on David Cagle's farm. We planted 72 rows of ten different cotton varieties from five different companies on May 3, 2018. Cagle 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. Fifty-four rows were picked out of each variety to make a module. 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 money dollars per acre even though they might not have picked as much as another variety.