

2020 Cotton Variety Trial Report



Two Location Yield Summary

The organic soil site was conducted at IMPACT Agronomics’ research farm in Pantego, NC on a Hyde loam. The mineral site was conducted on the Blackland Farm Managers Tour site at Tetterton Family Farms in Pantego, NC on a Roanoke fine sandy loam.

Lint Yield Data by Location

Variety	Organic Soil	Mineral Soil	2-Location Average
NG 4936 B3XF	1551.8 a	1415.8 a	1483.8 a
ST 5471 GLTP	1543.0 a	1404.3 a	1473.7 ab
DP 2038 B3XF	1464.5 ab	1352.3 abc	1408.4 ab
DP 2012 B3XF	1439.8 ab	1325.3 abc	1382.6 ab
NG 3930 B3XF	1505.5 ab	1231.3 bc	1368.4 b
ST 4990 B3XF	1481.0 ab	1209.0 c	1345.0 b
NG 4098 B3XF	1353.8 bc	1313.8 abc	1333.8 b
DP 2020 B3XF	1261.8 c	1375.0 ab	1318.4 b
ST 4550 GLTP	1393.5 abc	1211.8 c	1302.7 b
LSD P=.10	163.84	162.86	115.38
Standard Deviation	136.91	135.22	137.97
CV	9.47	10.27	10.00

Highlighted means do not significantly differ from the highest yielder within each column.

Organic Soil Site Summary

The organic soil site was conducted at IMPACT Agronomics’ research farm in Pantego, NC on a Hyde loam. The trial was planted in a minimum till field on 36” rows. The trial design was randomized complete block design and the plots were 4 rows by 40’ replicated four times. The trial was planted at a rate of 43,000 seeds/A. 10 gal/A of 18-12-0-3S starter was applied in a 2x2 band. 22 gal/A of 30% nitrogen was applied at layby for a total of 90 lb/A nitrogen for the season.

May was cold and wet so this trial was planted on May 25, which is later than we like, but the conditions did not allow us to go earlier. Soil moisture and temperature were good at planting so emergence and stand establishment were good. The trial then went into a 4-week drought. This reduced early vegetative vigor and growth and delayed the need for mepiquat. Overall mepiquat use was much less than normal, but plants still did achieve a proper height for good yield potential. The remainder of the season had good soil moisture and heat unit accumulation. Yields were slightly above the long-term average for this field.

Mineral Soil Site Summary

The mineral site was conducted on the Blackland Farm Managers Tour site at Tetterton Family Farms in Pantego, NC on a Roanoke fine sandy loam. The trial was planted in a minimum till field on 36" rows. The trial design was randomized complete block design and the plots were 4 rows by 40' replicated four times. The trial was planted at a rate of 43,000 seeds/A. 10 gal/A of 18-12-0-3S starter was applied in a 2x2 band. 22 gal/A of 30% nitrogen was applied at layby for a total of 90 lb/A nitrogen for the season. The trial was planted on May 18. This trial was maintained by Tetterton Family Farms.

May was cold and wet but soil moisture and temperature were good enough at planting so that emergence and stand establishment were good. The trial then experienced a 4-week dry period during early bloom. The rest of the season had good soil moisture and heat unit accumulation. Yields were good for this site.

Seed Company Information

We would like to thank all of the seed companies that sponsored varieties in these two trials this year. We look forward to continuing and expanding our cotton variety testing next year.

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