

## 2019 Evaluation of Cotton Varieties at Jay, Florida

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This report summarizes results from the 2019 cotton demonstration variety trial at West Florida Research and Education Center, Jay, Florida. It shows the performance of 17 cotton varieties. This data represents only one year, results should be considered over several locations and years before conclusions are valid.

The study area soil type was a Red Bay sandy loam. Cotton varieties were planted on 5 June under strip tillage. Demonstration plots were eight rows 970 to 1520 feet long with 36-in. row spacing. Standard production practices for non-irrigated cotton production were followed throughout the season. Fertilizer was applied on 1 July (490 lb 25.8-5.2-18.6/A). Herbicides were applied as follows: Roundup 22 oz/A on 24 June and 22 oz/A on 30 July. Tombstone insecticide at 2.0 oz/A was applied on 5 September. Priaxor fungicide was applied at 6 oz/A on 9 August. Mepiquat plant growth regulator was applied at 1 pt/A on 9 August and 1 pt/A on 5 September. Cotton was harvested with a conventional spindle picker on November 22.

Weather data was obtained from Florida Automated Weather Network (FAWN) station located on Jay research farm (Table 1). Seed cotton yields according to variety are shown in Table 2.

**Table 1. Weather Conditions During 2019 Cotton Demonstration Trial**

Month	Total Rainfall (in)	Average minimum air temperature (°F)	Average maximum air temperature (°F)
May	3.22	54.8	95.9
June	5.57	65.5	95.0
July	3.74	68.9	95.6
August	7.38	67.1	96.1
September	0.04	69.0	95.1
October	10.68	46.1	91.9
Total	30.63		

**Table 2. 2019 Cotton Yields**

<b>Brand</b>	<b>Variety</b>	<b>Seed Cotton Yield (lb/A)</b>	<b>Cotton Yield (bales/A)*</b>
Deltapine	DP1646 B2XF	3413	2.84
Deltapine	DP1840 B3XF	2840	2.37
Deltapine	DP1851 B3XF	2869	2.39
Deltapine	DP1916 B3XF	2979	2.48
Stoneville	ST4550 GLTP	3556	2.96
Stoneville	ST5471 GLTP	3071	2.56
Stoneville	ST5600 B2XF	2850	2.38
Stoneville	ST5818 GLT	3750	3.13
Stoneville	ST6182 GLT	3158	2.63
Phytogen	PHY350	3063	2.55
PhytoGen	PHY480	2853	2.38
PhytoGen	PHY580	2535	2.11
PhytoGen	PX3B07	3111	2.59
PhytoGen	PX5D28	2484	2.07
Croplan	19XG9B3XF	2894	2.41
Croplan	CG 3885	3264	2.72
Croplan	CG 9608	3045	2.54

\*Assumes a ginning turnout of 40% and a bale weight of 480 lbs.