2025 Field Corn Variety Demonstration Plot Yields at the Jay Research Facility

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This report summarizes the 2025 field corn large plot demonstration trial at West Florida Research and Education Center, Jay, Florida. It shows the yields of 17 varieties in the nonreplicated demonstration trial for 2025.

2025 Growing Conditions and Demonstration Design

On March 28, 2025, 17 field corn varieties were planted at 2 seed/ft.(approximately 30,000 seed/ A) under conventional tillage. The demonstration plots were planted over an area of Red Bay sandy loam and Orangeburg sandy loam soils that were planted in cotton in the summer of 2024. Seventeen days prior to planting, on March 11, any vegetation present was killed with an application of Glyphosate (32oz/A). Dual Magnum (22 oz/A) was then applied immediately after planting (March 28). Seventten days after planting (April 14), the plots were irrigated (1.25 inches). Glyphosate (32 oz/acre) and Miravis fungicide (6 oz/A) were applied 39 days after planting (May 6). Gramoxone (32 oz/A) was sprayed 133 days after planting (August 8), to kill morning glories pre-harvest. The nonreplicated plots were 4 rows spaced 36 in. apart (12 ft wide) by 350 ft long. The plots were fertilized in 2 split applications. Potash was applied at 130 lb/A on April 14 (17 days after planting) and at 148 lb/A on May 6 (39 days after planting). Urea nitrogen was also applied at 280 lb/A on May 6. All fertilizer applications were incorporated following application. Rows 2 and 3 of each plot were harvested via combine with data recorded for moisture, weight, and test weight . Plots 1-9 were harvested 147 days after planting, on August 22,. Because of inclement weather, harvest of plots 10-17 was delayed until August 26, 151 days after planting, Rainfall in Jay, FL for March, April, and July was close to average while May and June were above average, and August was below average.

Table 1. Weather conditions during the 2025 field corn demonstration.

Month	Total Rainfall (average) (inches)	Average minimum air temperature (°F)	Average maximum air temperature (°F)
March (28-31)	6.33	31	89
April	5.67	44	90
May	9.87	56	93
June	14.29	63	94
July	7.38	71	95
August (1-26)			

4.36	63	96

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2025 Demonstration Summary

Corn yields in the demonstration plots ranged from 184.07 bu/A to 225.5 bu/A in 2025 (Table 2).

Table 2. 2025 field corn demonstration plot yields at the Jay Research Facility. Light blue indicates highest-yielding varieties.

Company	Variety	Test Weight (lb)	Yield (bu/A) 2025*
Dekalb	DKC117-78vt2p	57	218
Dekalb	DKC70-45vt2p	58	212
Dekalb	DKC119-30vt4p	57	204
Dekalb	DKC66-06tre	55	200
Dekalb	DKC68-35vt2p	56	202
Dekalb	DKC111-62	56	226
Dekalb	DKC119-09	57	201
Croplan	CP5911vt2p	55	206
Croplan	CP5682tre	55	200
Croplan	CP5272vt2p	56	185
Croplan	CP5497vt2p	56	194
Croplan	CP1447vt2	57	204
Pioneer	P1608yhr	57	190
Pioneer	P1511yhr	56	184
Pioneer	P17677yhr	57	195
Pioneer	P1847	57	176
Adjusted to 15.5% moisture			

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2025 3-Year Yield Comparison Demonstration Summary

Table 3. Yields of varieties planted in 2025 Corn Variety Trial compared to yield of those same varieties in 2023 and 2024 trials.

Company	Variety	Yield (bu/A) (2023)	Yield (bu/A) 2024	Yield (bu/A) 2025	2–3-year average
Dekalb	DKC117-78vt2p	x	191	218	205
Dekalb	DKC70-45vt2p	x	x	212	
Dekalb	DKC119-30vt4p	x	x	204	
Dekalb	DKC66-06tre	x	x	200	
Dekalb	DKC68-35vt2p	x	180	202	191
Dekalb	DKC111-62	x	x	226	
Dekalb	DKC119-09	x	x	201	
Croplan	CP5911vt2p	x	x	206	
Croplan	CP5682tre	x	189	200	195
Croplan	CP5272vt2p	x	x	185	
Croplan	CP5497vt2p	x	x	194	
Croplan	CP5893tre	181	229	204	205
Croplan	CP1447vt2	x	x	204	
Pioneer	P1608yhr	x	x	190	
Pioneer	P1511yhr	x	175	184	179
Pioneer	P17677yhr	x	179	195	187
Pioneer	P1847	219	x	176	197