



2019 Field Corn Variety Demonstration Plot Yields at the Jay Research Facility

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This report summarizes the 2019 field corn large plot demonstration trial at West Florida Research and Education Center, Jay, Florida. It shows the yields of 10 varieties in the nonreplicated demonstration trial.

2019 Growing Conditions and Demonstration Design:

On 2 April, 2019 field corn varieties were planted at 2.2 seed/ft. (32,000 seed/A) under strip-tillage in a Dothan fine sandy loam soil that had been planted to cotton in summer 2018. The nonreplicated plots were eight rows spaced 36 in. apart (24 ft wide) by 500 ft long. Prior to planting any vegetation present was killed with an application of Roundup at 1 qt./A. Dual (1.3 pt/A) + Atrazine (2 qt/A) were applied 2 April 2019. Roundup (22 oz/A) was applied on 6 May, 2019. Fertilizer (437 lbs 7-19-25/A) and (580 lbs 33-0-0/A) was applied on 26 March and 29 April, respectively. The fungicide Priaxor was applied at 8 oz./A on 16 May for disease control. Yield data was collected from all eight rows of each demonstration plot; plots were harvested on 5 September.

Rainfall in Jay, FL for April and August of 2019 was below average, while for May, June and July it was below average (Table 1). Rainfall average represents the mean for the past 60 years of records kept at WFREC, Jay. Average daily maximum temperatures were high during the growing season (Table 1).

Table 1. Weather conditions during 2019 field corn demonstration.

Month	Total Rainfall (in)	Average minimum air temperature (°F)	Average maximum air temperature (°F)
April	5.5 (0.7 above average)	40.8	87.3
May	3.2 (1.0 below average)	56.5	96.6
June	5.6 (1.7 below average)	61.7	98.8
July	3.7 (4.1 below average)	67.3	100.4
August	7.4 (0.9 above average)	66.6	96.6

Demonstration Summary

Corn yields in the demonstration plots were all over 200 bu/A in 2019 (Table 2).

Table 2. 2019 field corn demonstration plot yields at the Jay Research Facility.

Company	Variety	Moisture at Harvest (%)	Yield (bu/A) at 15.5% Moisture
Agrigold	A647-46 VT2 Pro	13.8	214.2
Agrigold	A644-32TRC1B	13.8	228.5
Agrigold	A6659-VT2 RIB	13.8	216.6
Agrigold	A648-54 STX	14.2	226.5
Pioneer	P1870 YHR	14.3	217.9
Pioneer	P1847 VYHR	13.7	235.3
Pioneer	P1903 YHR	14.6	227.3
Pioneer	P1662 YHR	14.2	220.1
Pioneer	P1464 VYHR	13.1	226.4
Pioneer	P1197 YHR	12.6	228.1

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