

# 2018 Field Corn Variety Demonstration Plot Yields at the Jay Research Facility

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This report summarizes the 2018 field corn large plot demonstration trial at West Florida Research and Education Center, Jay, Florida. It shows the yields of 21 varieties in the nonreplicated demonstration trial.

## 2018 Growing Conditions and Demonstration Design:

On 26 March, 2018 field corn varieties were planted at 2.2 seed/ft. (32,000 seed/A) under strip-tillage in a Red Bay fine sandy loam soil which had been planted to cotton in summer 2017. The nonreplicated plots were eight rows spaced 36 in. apart (24 ft wide) by 675 to 685 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 29 March 2018. Roundup (26 oz/A) was applied on 11 and 21 May, 2018. Fertilizer (370 lbs 3-7-28/A) and (574 lbs 40.6-4-2.6/A) was applied on 14 March and 18 April, respectively. The fungicide Priaxor was applied at 8 oz./A on 21 May for disease control. Yield data was collected from all eight rows of each demonstration plot; plots were harvested on 9 September.

Rainfall in Jay, FL for April and July of 2018 was below average, while for May, June and August was near average (Table 1). Average represents the mean for the past 60 years of records kept at WFREC, Jay.

**Table 1. Weather conditions during 2018 field corn demonstration.**

Month	Total Rainfall (in)	Average minimum air temperature (°F)	Average maximum air temperature (°F)
April	4.03 (0.77 below average)	54.4	78.4
May	3.73 (0.47 above average)	62.0	85.6
June	7.40 (0.10 above average)	68.2	90.2
July	6.80 (1.00 below average)	70.5	91.4
August	6.40 (0.10 above average)	70.1	91.3

## Demonstration Summary

Corn yields in the demonstration plots ranged from 160 to 218 bu/A (Table 2). Yields above 200 bu/A are marked in bold in Table 2.

Table 2. 2018 field corn demonstration plot yields at the Jay Research Facility.

Company	Variety	Yield (bu/A) at 15.5% Moisture
Agrigold	A642-59 PRO VT2	185.7
Agrigold	A647-90 VT2 PRO	<b>207.7</b>
Agrigold	A6499 STX	<b>203.5</b>
Agrigold	A6544 VT2 PRO	193.3
Agrigold	A6659 VT2 PRO	<b>212.4</b>
Agrigold	A6711 VT2 PRO	159.9
Croplan	5678VT2P	195.8
Croplan	5789VT2P	184.3
Dekalb	DKC62-53	164.3
Dekalb	DKC64-35	190.8
Dekalb	DKC65-95	186.4
Dekalb	DKC67-44	180.4
Dekalb	DKC70-27	<b>201.2</b>
Dyna-Gro	CX17117 SS	<b>217.6</b>
Dyna-Gro	D55QC73 3110	196.3
Dyna-Gro	D57VC51 VT2P	<b>206.9</b>
Dyna-Gro	D58VC65 VT2P	<b>209.4</b>
Pioneer	P1197YHR	198.9
Pioneer	P1662YHR	196.2
Pioneer	P1870YHR	<b>210.0</b>
Pioneer	P1916YHR	193.6