

# 2014 Field Corn Variety Demonstration, Jay, Florida

Darcy Telenko, Libbie Johnson, John Atkins and Barry Brecke

This report includes the summary of the 2014 field corn variety demonstration at West Florida Research and Education Center, Jay, Florida. It shows the performance of 18 field corn varieties. This data represents only one year, results should be considered over several locations and years before conclusions are valid.

## Varieties that were included:

1. Dyna-Gro D55QC73
2. Dyna-Gro D56VC46
3. Dyna-Gro D57VP51
4. Dyna-Gro D57VP75
5. Dekalb DKC66-97
6. Dekalb DKC66-87
7. Dekalb DKC64-69
8. Dekalb DKC69-29
9. Dekalb DKC67-58
10. Dekalb DKC68-92
11. Dekalb DKC66-42
12. Dekalb DKC62-08
13. Dekalb DKC65-19
14. Dekalb DKC66-40
15. Croplan 6640 VT3P
16. Croplan 6926 VT3P
17. Croplan 7927 VT3P
18. Croplan 8621 VT2P

## 2014 Growing Conditions and Experimental Design:

On 3 April 2014, field corn varieties were planted 2 seed/ft. (29,000 seed/A) under strip-tillage in a Red Bay fine sandy loam soil which had been planted to cotton in summer 2013. Prior to planting any vegetation present was killed with an application of Roundup at 1 qt./A. and granular starter fertilizer (5-15-30, 300 lb/A) was broadcast. Non-replicated plots were 12 rows wide by 875 ft. long (0.723 A), and rows were spaced 36-in. apart. Crop stand was determined on 28 April by counting the number of plants in four 25 ft long row sections in each variety block. Supplemental fertilizer was applied on 13 May (K<sub>2</sub>O<sub>5</sub>, 85 lb/A; (NH)<sub>4</sub>SO<sub>4</sub>, 100 lb/A; urea, 100 lb/A; 250 lb/A Polymer Coated Urea 44-0-0). Roundup at 22 oz./A plus Dual Magnum at 1.3 pt./A were applied 22 May for weed control. The fungicide Priaxor was applied at 8 oz./A on 10 June for disease control. Yield data was collected from the entire plot for each variety. Plots were combine harvested on 26 August.

Rainfall for April and May was 11.9 and 5.8 in. above normal, June was 2.1 in. below normal, July was 0.65 in above normal and August was 1.6 in below normal in Jay, FL for 2014 (Table 1). Normal represents the mean for the past 53 years of records kept at WFREC, Jay.

**Table 1. Weather conditions during 2014 field corn trial.**

Month	Total Rainfall (in)	Average minimum air temperature (°F)	Average maximum air temperature (°F)
April	16.73 (11.93 above normal)	39.3	84.9
May	10.29 (5.79 above normal)	49.7	93.1
June	5.27 (2.13 below normal)	66.6	94.4
July	8.70 (0.65 above normal)	62.1	94.9
August	4.94 (1.58 below normal)	66.9	96.0

## Summary

Stand count for all varieties ranged from 21,800 to 25,600 plants/A (Table 2). Yields ranged from 160 bu/A (Croplan 7927) to 226 bu/A (Dekalb DKC66-97) (Table 2).

**Table 2: Field corn variety demonstration yield, Jay, FL 2014.**

Cultivar	Plants/A <sup>a</sup> (28 April)	Yield (lb/A) (26 August)	Yield (bu/A) <sup>b</sup> (26 August)
1. Dyna-Gro D55QC73	23,800	10,862	194
2. Dyna-Gro D56VC46	23,100	11,259	201
3. Dyna-Gro D57VP51	23,200	11,338	203
4. Dyna-Gro D57VP75	24,000	10,024	179
5. Dekalb DKC66-97	24,000	12,650	226
6. Dekalb DKC66-87	24,000	10,579	189
7. Dekalb DKC64-69	22,900	11,476	205
8. Dekalb DKC69-29	23,500	9,397	168
9. Dekalb DKC67-58	24,200	10,185	182
10. Dekalb DKC68-92	25,600	10,967	196
11. Dekalb DKC66-42	23,200	10,251	183
12. Dekalb DKC62-08	23,400	10,661	191
13. Dekalb DKC65-19	21,800	10,108	181
14. Dekalb DKC66-40	21,900	9,842	176
15. Croplan 6640	22,800	9,932	178
16. Croplan 6926	23,200	9,237	165
17. Croplan 7927	23,800	8,938	160
18. Croplan 8621	24,000	9,866	176

<sup>a</sup>Determined from plant counts of four, 25-ft row sections per variety block.

<sup>b</sup>Grain yields were adjusted to 15.5% moisture using a weight of 56 lb/bu.