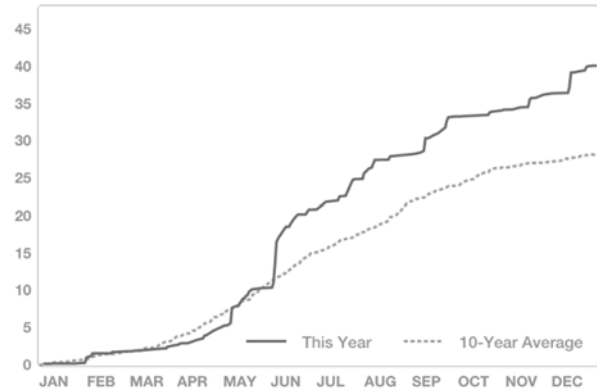


## Rainfed Corn Population Study

**Study ID:** 011035201501  
**County:** Clay  
**Soil Type:** Butler silt loam; Hobbs silt loam;  
**Planting Date:** 4/24/15  
**Harvest Date:** 10/20/15  
**Population:** 22,000/26,000  
**Row Spacing (in.)** 30  
**Hybrid:** DKC 62-78 RIB  
**Reps:** 31 (yield and moisture), 8 for stand counts  
**Previous Crop:** Soybean  
**Tillage:** No-Till  
**Herbicides:** *Pre:* Lexar E2 - Full broadcast rate on 4/29/15 ( w/ fertilizer) *Post:* unknown  
**Seed Treatment:** None  
**Foliar Insecticides:** None  
**Foliar Fungicides:** None

**Fertilizer:** 5 gal/ac 10-34-0 and 1 qt/ac zinc at planting - 4/24/15 (on seed);  
 130 lb/ac 32-0-0 on 4/29/15 (broadcast with chemical + Agrotain)  
**Irrigation:** None  
**Rainfall (in.):**



### Soil Sample Results:

Soil		Nitrate-Nitrogen		Mehlich 3 ICP					DTPA		Cation Exchange Capacity									
Sample	Depth	pH	Buffer	Sol Salts	Exces	%	lb	MP-3	K	S	Ca	Mg	Na	Zn	CEC	H	K	Ca	Mg	Na
0-8	6.2	6.7	0.20	No	2.6	5	12	28	424	11	1780	281	24	0.7	16	22	7	56	15	1

**Introduction:** These growers have traditionally planted 22,000 seeds/acre on their rainfed corn fields. They are considering increasing their seeding rate for their dryland corn fields. The objective of this study was to determine if increasing their seeding rate to 26,000 seeds/acre would result in increased yield and ultimately increased profitability.

### Results:

	Yield (bu/ac)†	Moisture (%)	Harvest Stand Count	Marginal Net Return (\$/ac)‡
22,000 seeds/acre	184 B*	13.4 A	21,500 B	596.13
26,000 seeds/acre	191 A	13.3 B	24,875 A	607.96
P-Value	<0.0001	0.0053	0.0001	N/A

†Bushels per acre corrected to 15.5% moisture.

\*Values with the same letter are not significantly different at a 90% confidence level.

‡Net Return based on \$3.65 corn and \$274.45/bag seed corn (80,000 seed count).

**Summary:** Increasing the seeding rate to 26,000 seeds/acre resulted in a statistically significant increase in yield (7 bu/ac), which covered the cost of the additional seeds.



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