



# Nebraska On-Farm Research Network

## Torque™ on Corn

**Study ID:** 032035201402

**County:** Clay

**Soil Type:** Hastings silt loam

**Planting Date:** 5/1/2014

**Harvest Date:** 11/7/2014

**Population:** 33,000

**Row Spacing:** 30"

**Hybrid:** Pioneer 32B16

**Reps:** 6

**Previous Crop:** Soybeans

**Tillage:** No-Till

**Herbicides:** Pre: None

**Post:** 1.5 qt/ac Lexar on 5/6/2014 and 32 oz/ac

Touchdown Total on 6/11/2014

**Insecticides/Fungicides:** 1.2 oz/ac Baythroid XL on 5/6/2014. 2 oz/ac Priaxor on 6/11/2014 and 10.5 oz/ac Quilt Xcel on 7/19/2014.

**Additional applications:** 1 qt/ac Plen-T-Sweet on 6/11/2014 and 1 qt/ac Sweet'n Eezy on 7/19/2014

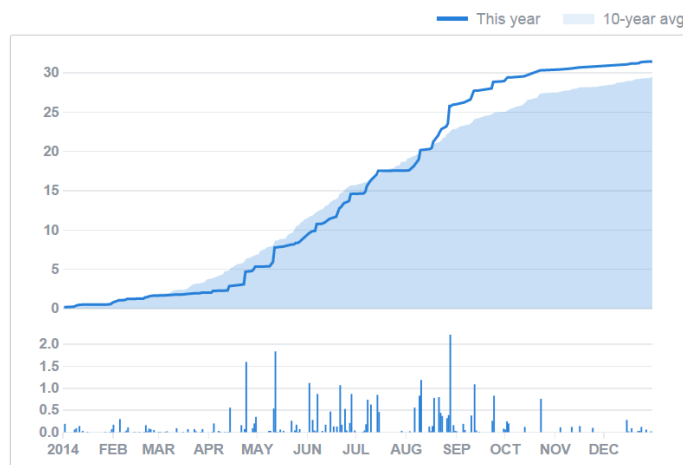
**Soil Test: (Average for field)**

	pH	BpH	OM ---%---	Nitrate	P	K	Ca	Mg	Na	Ca	Zn
	-----ppm-----										
<b>Average</b>	6	7	3	8	25	366	2001	273	37	10	1

**Fertilizers:** Fall application of 167 lb actual N/ac Anhydrous ammonia with a variable rate application of 11-52-0. 1 gal/ac 28-0-0 on 6/11/2014 and 1 gal/ac 10-0-10 on 7/19/2014.

**Irrigation:** Pivot

**Rainfall:**



**Introduction:** The purpose of this study is to determine the effect of Torque™ growth promoter on corn yield. This is the second year for this study (2013 results shown below right). Torque™ was applied during planting at a rate of 8 oz/acre. Percent moisture, stalk rot, and plant population data were also collected at harvest.

Product label shown below left.

### MINIMUM GUARANTEE

ACTIVE: 2 x 10<sup>-10</sup>% lipo-chitoooligosaccharide (LCO) formulated for corn applications

OTHER INGREDIENTS: Aqueous carrier > 99%

Producer	Avg Yield Check	Avg Yield Torque
2013 Clay Co. (8 reps)	254.8 18.4% moisture (11.7% stalk rot) 31,667 Stand Count	255.3ns 18.4% moisture ns (13.3% stalk rot) 31,000 Stand Count
No statistical differences in 2013 (alpha=0.05) and 2014 (alpha=0.10)		
Check treatment: 3 gal. 10-34-0 + 1 qt/ac micromax (2% Magnesium, 0.25%B, 2%Zn, 1.6%Fe, 0.5%Cu)		
Torque: Check treatment + 0.5 pt/ac Torque		

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## Results:

	Yield† (bu/acre)	Moisture (%)	Stalk Rot (%)	Harvest Pop	Net Return ‡
<b>Check</b>	283 A*	16.8 A	6.7 A	31,333 A	\$990.50
<b>Torque™</b>	284 A	16.9 A	12.5 A	28,083 B	\$989.00
<b>P-Value</b>	0.2156	0.1747	0.2875	0.0084	--

†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 \$3.50/bu corn price and \$5.00/ac Torque™ cost.

**Summary:** There was no significant difference in yield, moisture, or stalk rot between the Torque™ treatment and the check. There was a significantly lower harvest population for the Torque™ treatment.

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