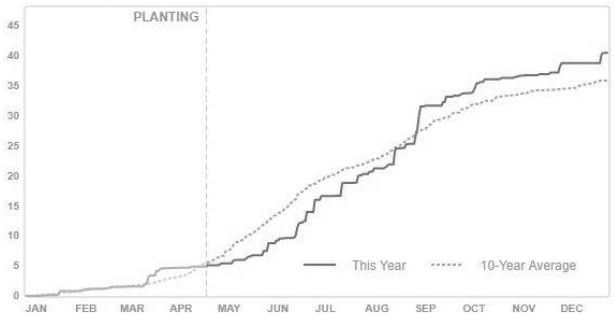
Starter Fertilizer on Non-Irrigated Corn

Study ID: 0136109201801
County: Lancaster
Soil Type: silty clay loam; silt loam
Planting Date: 4/24/18
Harvest Date: 10/4/18
Population: 30,000
Hybrid: Dekalb® DKC 62-98
Reps: 10
Tillage: No-Till
Herbicides: ***Pre:*** Bicep II Magnum® ***Post:*** Roundup® and Callisto®
Foliar Insecticides: None
Foliar Fungicides: None
Irrigation: None
Rainfall (in):



Introduction: The objective of this study was to determine if using 5 gal/ac of 10-34-0 starter fertilizer (6 lb/ac actual N and 20 lb/ac actual P) at planting results in higher yield and profit. Recent soil tests are not available.

Results:

	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ ($/ac)
Check	16.0 A*	208 A	671.24 A
Starter (5 gal 10-34-0)	15.8 B	208 A	655.36 B
P-Value	0.007	0.688	<0.0001

*Values with the same letter are not significantly different at a 90% confidence level.
†Bushels per acre adjusted to 15.5% moisture.
‡Marginal net return based on $3.23/bu corn and $15/ac for starter fertilizer.

Summary: There was no yield difference between the starter treatment and the unfertilized check. Due to the additional starter fertilizer cost, the check was more profitable.

Sponsored by: University of Nebraska Lincoln

In Partnership with: Nebraska Corn Board; Nebraska Soybean Checkoff; Nebraska Corn Growers Association; Nebraska Dry Bean Commission