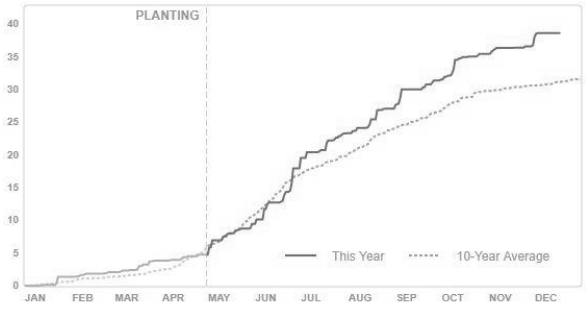
Impact of Conklin® Amplify-D® on Corn

Study ID: 0085141201807
County: Platte
Soil Type: Grigston silt loam wet sub-stratum; Boel fine sandy loam occasionally flooded
Planting Date: 4/30/18
Harvest Date: 9/26/18
Population: 34,000 and 36,000 (the treatments – Conklin® Amplify-D® and the untreated check – were equally represented in each population)
Row Spacing (in): 30
Hybrid: Dekalb® DKC 59-50
Reps: 24
Previous Crop: Soybean
Tillage: Ridge-Till
Herbicides: ***Pre:*** 2 qt/ac Degree Extra®, 40 oz/ac Roundup®, and 6 oz/ac Sterling Blue® in mid-May
Post: 56 oz/ac Halex®, 1 pt/ac Atrazine, and 16 oz/ac Roundup® in mid-June

Seed Treatment: Acceleron® Basic 500
Foliar Insecticides: None
Foliar Fungicides: None
Fertilizer: 100 lb/ac MicroEssentials® SZ™ 12-4-0-10S-1Zn; 130 lb/ac N from sidedress NH3
Irrigation: Gravity, Total: 2”
Rainfall (in):



Introduction: This study was evaluating Conklin® Amplify-D® on corn. Amplify-D® was applied at a rate of 1.5 oz/ac in the planter box. The guaranteed analysis is below.

Guaranteed analysis:

Total Nitrogen (N)	2.0%
Available Phosphoric Acid (P_2O_5)	10.0%
Calcium (Ca)	1.0%
Iron (Fe)	2.0%
Manganese (Mn)	0.5%
Zinc (Zn)	2.0%
Nutrients from:	Disodium Phosphate, Adenosine Monophosphate (AMP), Monosodium Phosphate, Calcium Carbonate, Ferrous Sulfate, Manganese Sulfate and Zinc Sulfate

Product information from: https://www.conklin.com/mwdownloads/download/link/id/175/

Results:

	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ ($/ac)
Check	17.8 A*	257 B	830.88 A
Conklin® Amplify-D®	17.8 A	259 A	833.55 A
P-Value	0.453	0.034	0.190

*Values with the same letter are not significantly different at a 90% confidence level.
†Yield values are from cleaned yield monitor data. Bushels per acre corrected to 15.5% moisture.
‡Marginal net return based on $3.23/bu corn and $1.80/ac for the Amplify-D®.

Summary:

- There was no moisture difference between the untreated check and the Amplify-D® treatment.
- Yield was 1.4 bu/ac greater for the Amplify-D® treatment.
- There was no difference in marginal net return between the treatment with Amplify-D® and the untreated check.

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