Impact of Conklin® Amplify-D® on Irrigated Corn

Study ID: 0085141201912
County: Platte
Soil Type: Grigston silt loam, wet sub-stratum, rarely flooded
Planting Date: 5/2/19
Harvest Date: 10/23/19
Seeding Rate: 32,000
Row Spacing (in): 30
Variety: DEKALB® DKC64-34
Reps: 37
Previous Crop: Corn
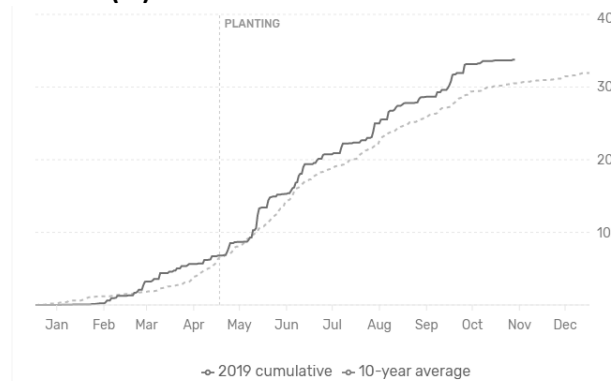**Tillage:** Rolled before planting
Herbicides: *Post:* 2 qt/ac Degree Xtra®, 32 oz/ac Roundup PowerMAX®, 3 oz/ac Balance® Flexx, and 6 oz/ac Sterling Blue® with Superb® HC and Class Act®
Seed Treatment: Acceleron® Basic 500

Fertilizer: 100 lb/ac urea a month before planting, 10 gal/ac 32% UAN and thiosulfate mixture (90%/10%) with planter, 5 gal/ac Kugler LS 624 (6-24-6-1S) in-furrow, 50 gal/ac of 32% UAN and Thiosulfate mixture (90%/10%) with 360 Y-DROP® at V8 on 6/15/19
Irrigation: Pivot, Total: 5"
Rainfall (in):

Rainfall chart: 2019 cumulative vs 10-year average

Introduction: The study is evaluating Conklin® Amplify-D® on corn. Amplify-D® was applied at a rate of 3 oz/ac in the planter box. The Amplify-D® guaranteed analysis is below.

Guaranteed analysis:

Nutrient	%
Total Nitrogen (N)	2.0%
Available Phosphoric Acid (P₂O₅)	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	17.0 A*	244 B	932.72 A
Conklin® Amplify-D® (3 oz/ac)	17.0 A	245 A	936.36 A
P-Value	0.293	0.016	0.196

*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 adjusted to 15.5% moisture.
‡Marginal net return based on $3.83/bu corn and $3.36/ac for Amplify-D®.

Summary: Amplify-D® resulted in a 1.8 bu/ac yield increase. There was no difference in moisture or net return between the treatments evaluated.