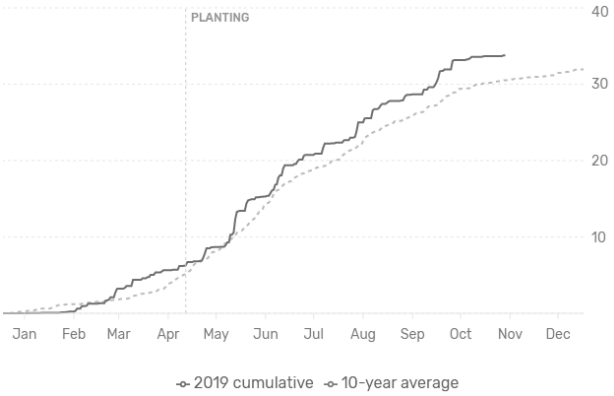
Impact of Conklin® Amplify-D® on Irrigated Corn

Study ID: 0085141201909
County: Platte
Soil Type: Gibbon silt loam occasionally flooded; Grigston silt loam wet sub-stratum
Planting Date: 4/26/19
Harvest Date: 9/28-30/19
Seeding Rate: 32,000
Row Spacing (in): 30
Variety: DEKALB® DKC60-88
Reps: 37
Previous Crop: Soybean
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 MicroEssentials® SZ™ (12-40-0-10S-1Zn) in April, 10 gal/ac 32% UAN and thiosulfate blend with planter, 5 gal/ac Kugler LS 624 (6-24-6-1S) in-furrow, 43 gal/ac of 32% UAN and thiosulfate blend on V8 corn with 360 Y-DROP® on 6/15/19
Irrigation: Gravity, Total: 7"
Rainfall (in):



Introduction: The study is evaluating Conklin® Amplify-D® on corn. Amplify-D® was applied at a rate of 1.5 oz/ac in the planter box. The Amplify-D® 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	19.9 A*	246 A	943.72 A
Conklin® Amplify-D® (1.5 oz/ac)	20.0 A	244 B	933.22 B
P-Value	0.405	0.043	0.017

*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 $1.68/ac for Amplify-D®.

Summary: The use of Amplify-D® resulted in a 2 bu/ac yield decrease and $10.50/ac lower net return compared to the untreated check.

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