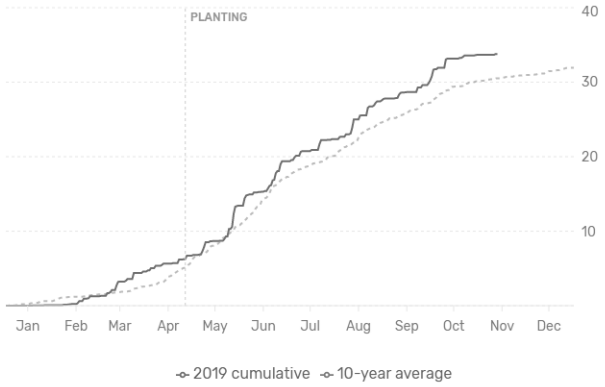
Impact of Conklin® Amplify-D® on Irrigated Corn

Study ID: 0085141201907
County: Platte
Soil Type: Gibbon-Gayville silty clay occasionally flooded; O'Neill fine sand 0-2% slope
Planting Date: 4/26/19
Harvest Date: 9/26/19
Seeding Rate: 32,000
Row Spacing (in): 30
Variety: DEKALB® DKC59-50
Reps: 9
Previous Crop: Corn
Tillage: No-Till
Herbicides: ***Pre:*** 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® ***Post:*** 50 oz/ac Halex® GT, 16 oz/ac atrazine, and 22 oz/ac Roundup PowerMAX® with Class Act® at V6
Seed Treatment: Acceleron® Basic 500

Fertilizer: 100 lb/ac MicroEssentials® SZ™ (12-40-0-10S-1Zn) and 100 lb/ac urea in April; 10 gal/ac 32% UAN and thiosulfate blend with planter, 5 gal/ac Kugler LS 624 (6-24-6-1S) in-furrow, 50 gal/ac 32% UAN and thiosulfate blend side-dress on 6/15/19
Irrigation: Pivot, Total: 5"
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	20.8 A	219 A	839.65 A
Conklin® Amplify-D® (1.5 oz/ac)	21.0 A	217 B	827.33 B
P-Value	0.146	0.057	0.033

*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 2.7 bu/ac yield decrease and a $12.32/ac decrease in net return compared to the untreated check.

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