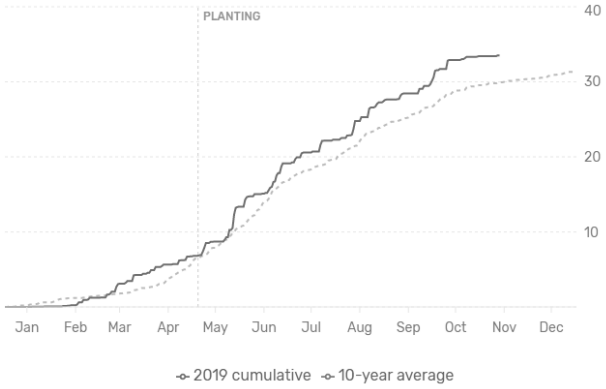
Impact of Conklin® Amplify-D® on Irrigated Corn

Study ID: 0085141201903
County: Platte
Soil Type: Gibbon silt loam, occasionally flooded; Grigston silt loam, rarely flooded
Planting Date: 5/3-4/19
Harvest Date: 10/29/19-11/4/19
Seeding Rate: 32,000
Row Spacing (in): 30
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 3 oz/ac Class Act® and Superb® HC ***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 planting, 5 gal/ac Kugler LS 624 (6-24-6-1) in-furrow; 50 gal/ac 32% UAN and thiosulfate 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. At this site, the product was evaluated for three corn hybrids. 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)
DEKALB® DKC63-21 (24 replications)			
Check	15.3 B*	265 A	1,015.49 A
Conklin® Amplify-D® (1.5 oz/ac)	15.4 A	262 B	1,001.28 B
P-Value	0.006	0.0001	<0.0001
DEKALB® DKC60-67 (21 replications)			
Check	15.2 A	243 A	931.82 A
Conklin® Amplify-D® (1.5 oz/ac)	15.2 A	241 B	919.60 B
P-Value	0.136	0.019	0.008
DEKALB® DKC60-87 (9 replications)			
Check	14.8 B	243 A	929.37 A
Conklin® Amplify-D® (1.5 oz/ac)	15.1 A	239 B	911.89 B
P-Value	0.034	0.089	0.064

*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: For DEKALB® DKC63-21, DEKALB® DKC60-67, and DEKALB® DKC60-87, the use of Amplify-D® significantly reduced yield by 3 bu/ac, 2 bu/ac and 4 bu/ac, respectively. Net return was lower where Amplify-D® was used compared to the untreated check.

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