



Impact of Agnition Procure® on Corn

Study ID: 0085141202001

County: Platte

Soil Type: Boel fine sandy loam

Planting Date: 4/22/20

Harvest Date: 9/28/20

Seeding Rate: 36,000

Row Spacing (in): 30

Hybrid: DEKALB® DKC60-87

Reps: 8

Previous Crop: Soybean

Tillage: Ridge-Till 4/22/20, rolling stalk chopper

Herbicides: **Pre:** 2 qt/ac Degree Xtra®, 32 oz/ac

Roundup PowerMAX®, 4 oz/ac Sterling Blue®, 2

oz/ac Balance® Flexx on 4/24/20 **Post:** 32 oz/ac

Roundup PowerMAX®, 8 oz/ac atrazine, 3 oz/ac

Laudis®, and 40 oz/ac Warrant® on 6/6/20

Seed Treatment: Acceleron®

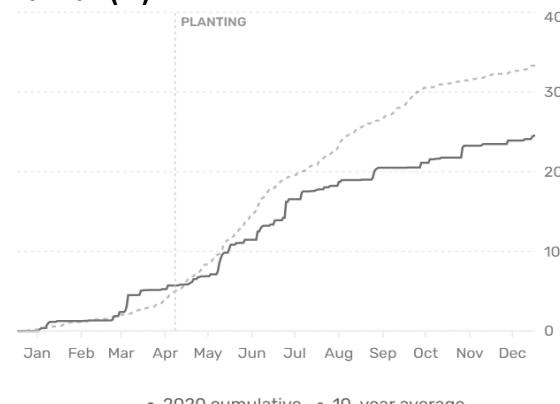
Foliar Insecticides: None

Foliar Fungicides: 2 oz/ac Stratego® YLD on 6/6/20

Fertilizer: 50 lb/ac MicroEssentials® ZH™ (12-40-0-10S-1Zn) and 100 lb/ac 0-0-60 on 4/1/20; 4.5 gal/ac Kugler LS 624 6-24-6-1Zn, 1 pt/ac Zn, and 1 pt/ac Kugler KS MicroMax in-furrow on 4/22/20; 10 gal/ac of a 90:10 mix of 32% UAN and thiosulfate dribbled on top on 4/22/20; 121 lb/ac N as 32% UAN and 4 gal/ac 12-0-0-26 sidedressed with y-drops on 6/1/20

Irrigation: Gravity, Total: 8"

Rainfall (in):



Soil Test (November 2020):

pH	BpH	OM	Nitrate - N	Bray P1	Bray P2	Sulfate-S	Zn	Ammonium Acetate (ppm)			CEC me/100g	% Base Saturation					
				ppm N	ppm P	ppm P	(DPTA)	K	Ca	Mg	Na	H	K	Ca	Mg	Na	
6.2	6.9	1.5	11	48	75	10	8.6	300	1075	126	23	8.3	12	9.3	64.8	12.7	1.2

Introduction: This study evaluated Agnition Procure® on corn. Procure® was applied at a rate of 2 pt/ac with starter fertilizer. The product label is at right.

GUARANTEED ANALYSIS

Iron (Fe).....	6.5%
Zinc (Zn).....	0.55%
Molybdenum (Mo).....	0.30%

DERIVED FROM: Iron (III) Oxide, Zinc Carbonate, Zinc Sulfate, Ammonium Molybdate

Results:

	Stand Count (plants/ac)	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	29,063 A*	19.4 A	215 A	752.86 A
Procure	28,500 A	19.5 A	215 A	735.55 B
P-Value	0.182	0.567	0.447	0.0001

*Values with the same letter are not significantly different at a 90% confidence level.

†Bushels per acre adjusted to 15.5% moisture.

‡Marginal net return based on \$3.51/bu corn and \$19/ac for Procure®.

Summary:

- There were no differences in stand counts, moisture, or yield between the Procure® and untreated check.
- The use of Procure® resulted in a \$17.31/ac decrease in net return.

This study was sponsored in part by Ralco Nutrition, Inc.

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