

## Impact of AgXplore® HumaPak™ In-Furrow Treatment

**Study ID:** 1050081202001

**County:** Hamilton

**Soil Type:** Hastings silt loam; Crete silt loam

**Planting Date:** 4/20/20

**Harvest Date:** 10/15-16/20

**Seeding Rate:** 32,500

**Row Spacing (in):** 36

**Hybrid:** DEKALB® DKC70-27 VT2

**Reps:** 4

**Previous Crop:** Soybean

**Tillage:** Ridge-Till

**Herbicides:** 5.5 oz/ac Corvus®, 32 oz/ac atrazine, 22 oz/ac Roundup®, and 1.5 lb/ac AMS on 5/6/20

**Seed Treatment:** Acceleron® 250

**Foliar Insecticides:** None

**Foliar Fungicides:** 8 oz/ac Delaro® aerial applied on 7/22/20

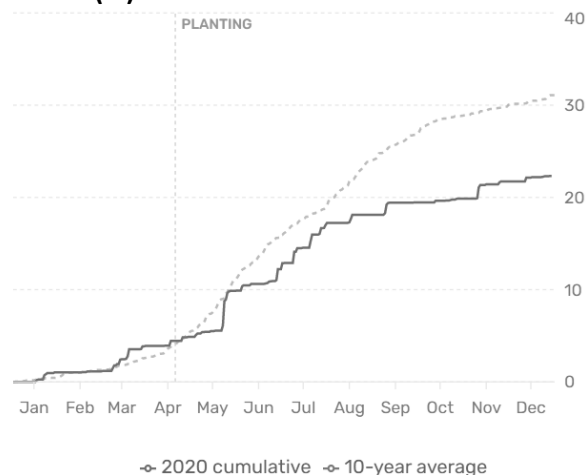
**Fertilizer:** 190 lb/ac N as anhydrous ammonia on 11/19/19, 4 gal/ac 7-23-4-zinc in-furrow on

4/20/20, 150 lb/ac MESZ was applied the fall of 2019

Note: 11% green snap on 7/9/20

**Irrigation:** Gravity, Total: 11"

**Rainfall (in):**



**Soil Test (October 2019, 0-8" depth):**

OM %	Bray P1 ppm	Bray P2 ppm	K ppm	Mg ppm	Ca ppm	pH	BpH	CEC me/100g	K% 5.4	Mg% 13.8	Ca% 71.8	H% 9.0	Nitrate-N ppm 7	Nitrate-N lb/ac 17	S ppm 6	Zn ppm 1.9
2.7	10	28	271	214	1852	6.4	6.8	12.9	5.4	13.8	71.8	9.0	7	17	6	1.9
2.8	10	23	282	238	2051	6.4	6.8	14.3	5.1	13.9	71.7	9.3	7	17	6	1.9
2.9	11	25	330	334	2317	6.3	6.7	17.0	5.0	16.4	68.1	10.5	9	22	5	1.3
3.1	23	56	340	294	2289	6.5	6.8	16	5.4	15.3	71.5	7.8	10	24	6	2.1

**Introduction:** This study evaluated AgXplore® HumaPak™ in-furrow treatment. HumaPak™ contains 8% nitrogen, 0.1% copper, and 6% humic acids derived from leonardite. HumaPak™ was applied at a rate of 32 oz/ac in-furrow. Stand counts, yield, grain moisture, and net return were evaluated.

### Results:

	Harvest Stand Count (plants/ac)	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	32,125 A*	18.4 A	252 A	884.01 A
HumaPak (32 oz/ac)	31,250 A	18.4 A	249 A	870.53 A
P-Value	0.162	0.877	0.353	0.226

\*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 \$3.51/bu corn and \$3.75/ac for HumaPak.

**Summary:** There was no difference in stand count, moisture, yield, or net return between the untreated check and the HumaPak treatment. The study will continue in future years with the treatments applied to the same areas in order to document long-term impacts.

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