

Impact of Holganix® Bio 800+ on Corn

Study ID: 0145159201901

County: Seward

Soil Type: Hastings silt loam, 0-1% slopes; Fillmore silt loam, frequently ponded

Planting Date: 4/18/2019

Harvest Date: 10/18/19

Seeding Rate: 32,000

Row Spacing (in): 30

Variety: Channel® 209-50

Reps: 7

Previous Crop: Soybean

Tillage: No-Till

Herbicides: *Pre:* 2.3 qt/ac Volley®, 3 oz/ac Callisto®, 24 oz/ac glyphosate, and 8 oz/ac Cornbelt® Salvan® on 4/15/19 *Post:* 3 oz/ac Callisto®, 4 oz/ac Status®, and 16 oz/ac Vail®

Seed Treatment: Standard

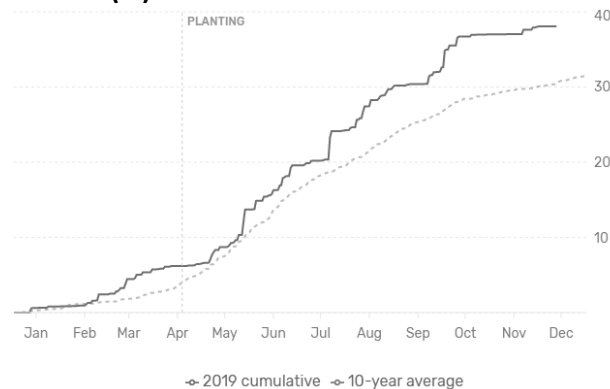
Foliar Insecticides: None

Foliar Fungicides: None

Fertilizer: 150 lb N/ac as anhydrous ammonia in fall 2018, 70 lb P/ac, 12.5 lb S/ac in the spring, and 54 lb N/ac side-dress on 6/30/19

Irrigation: Pivot, Total: 1"

Rainfall (in):



Soil Test (Fall 2018 – 3 samples in study area)

Sample	pH	Buffer pH	OM %	NO ₃ -N (0-2')	P1	K	Zn	S
-----ppm-----								
4	5.6	6.6	2.9	6.1	17	251	1.3	11
5	5.9	6.8	2.8	4.8	17	270	1.4	10
6	6.1	6.9	3.1	5.9	26	263	1.2	8

Introduction: The objective of this study was to evaluate Holganix® Bio 800+ on corn. The product was applied in-furrow at planting at a rate of 0.5 gal/ac. Product information is at right.

Holganix Bio 800+ Agriculture Guaranteed Analysis	
Water.....	88.80%
Molasses.....	10.74%
Amino Acids.....	0.19%
Humic Acid.....	0.16%
Fulvic Acid.....	0.06%
Kelp.....	0.04%
Plant Growth Promoting Bacteria from the Bacteria Family of Lactobacillaceae include:	
Species.....	cfu ⁽¹⁾
<i>Lactobacillus acidifarinae</i>	1.4 * 10 ⁶
<i>L. brevis</i>	3.9 * 10 ⁶
<i>L. manihotivorans</i>	2.7 * 10 ⁶
<i>L. parakefiri</i>	1.5 * 10 ⁶
<i>L. pentosus</i>	1.1 * 10 ⁶
<i>L. plantarum</i>	9.3 * 10 ⁵
<i>L. rhamnosus</i>	1.8 * 10 ⁵
⁽¹⁾ Colony Forming Units	

Product information from:

<https://www.holganix.com/bio-800-agriculture>

Results:

	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	15.6 A*	225 A	861.75 A
Holganix® Bio 800+	15.7 A	222 A	842.26 A
P-Value	0.108	0.421	0.203

*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 \$3.83/bu corn and \$8/ac Holganix Bio 800+.

Summary: There was no difference in grain moisture, yield, or net return between the Holganix® Bio 800+ treatment and the untreated check.

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