Impact of QuickRoots® on Corn

Study ID: 0085141201804
County: Platte
Soil Type: Gibbon silt loam occasionally flooded; Lawet silt loam occasionally flooded
Planting Date: 4/27/18
Harvest Date: 10/24/18
Population: 33,500
Row Spacing (in): 30
Hybrid: Dekalb® DKC 63-21
Reps: 13
Previous Crop: Corn
Tillage: Ridge-Till
Seed Treatment: Acceleron® Basic 500
Herbicides: ***Pre:*** 2 qt/ac Degree Extra®, 40 oz/ac Roundup®, and 6 oz/ac Sterling Blue® in mid-May
Post: 56 oz/ac Halex®, 1 pt/ac Atrazine, and 16 oz/ac Roundup® in mid-June

Fertilizer: 100 lb/ac Urea, 50 lb/ac K-Mag® and 25 lb/ac Potash on 4/10/18; 5 gal/ac Kugler 6-24-6-1S with 1 pt/ac Micro Max® in-furrow and 5 gal/ac ATS and 5 gal/ac 32% UAN on 4/27/18; 160 lb/ac N from NH3 sidedress on 6/4/18
Irrigation: Gravity, Total: 5”
Rainfall (in):

Introduction: The objective of this study was to evaluate Acceleron® QuickRoots® microbial seed inoculant on corn. The product was applied to the seed at a rate of 16 grams per unit of seed. The minimum guaranteed analysis is at right.

QuickRoots® WP
Corn Multi-Crop Inoculant

Microbial seed inoculant for improving nutrient availability for increased yield potential.

MINIMUM GUARANTEED ANALYSIS
ACTIVE: 3.1 x 10^8 viable cfu/g *Bacillus amyloliquefaciens*
7.4 x 10^7 cfu/g *Trichoderma virens*
INERT: wettable powder, 79%

NONPLANT FOOD INGREDIENT
Not a fertilizer substitute

Product information from: http://www.acceleronsas.com/Documents/Labels/114018S5-87_QuickRootsWPCornMC_Specimen_Post.pdf

Results:

	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ ($/ac)
Check	14.7 A*	256 A	827.98 A
QuickRoots®	14.8 A	257 A	825.13 A
P-Value	0.295	0.587	0.652

*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 corrected to 15.5% moisture.
‡Marginal net return based on $3.23/bu corn and $15/unit of corn for QuickRoots (resulting in cost of $6.28/ac at a planting rate of 33,500 seed/ac).

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

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