

## Impact of QuickRoots® on Corn

**Study ID:** 0085141201805

**County:** Platte

**Soil Type:** Janude fine sandy loam 0-1% slope;  
Lawet silt loam occasionally flooded

**Planting Date:** 4/30/18

**Harvest Date:** 10/3/18 and 10/4/18

**Population:** 34,680

**Row Spacing (in):** 30

**Hybrid:** Dekalb® DKC 60-88

**Reps:** 15

**Previous Crop:** Soybean

**Tillage:** No-Till

**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

**Seed Treatment:** Acceleron® Basic 500

**Fertilizer:** 100 lb/ac MicroEssentials® SZ™ 12-4-0-10S-1ZN; 130 lb/ac N from sidedress UAN 32%

**Irrigation:** Pivot, 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:  $3.1 \times 10^8$  viable cfu/g *Bacillus amyloliquefaciens*  
 $7.4 \times 10^7$  cfu/g *Trichoderma virens*

INERT: wettable powder, 79%

#### NONPLANT FOOD INGREDIENT

Not a fertilizer substitute

Product information from:

[http://www.acceleronsas.com/Documents/Labels/11401855-87\\_QuickRootsWPCornMC\\_Specimen\\_Post.pdf](http://www.acceleronsas.com/Documents/Labels/11401855-87_QuickRootsWPCornMC_Specimen_Post.pdf)

### Results:

	Moisture (%)	Yield† (bu/ac)	Marginal Net Return‡ (\$/ac)
Check	18.77 B*	267 A	861.32 A
QuickRoots®	18.84 A	266 A	852.27 B
P-Value	0.051	0.403	0.009

\*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 \$6.50/ac at a planting rate of 34,680 seed/ac).

### Summary:

- Grain moisture was higher for QuickRoots® than for the untreated check.
- There was no difference in yield between the two treatments.
- The QuickRoots® treatment had a lower net return due to the increased cost of production.

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