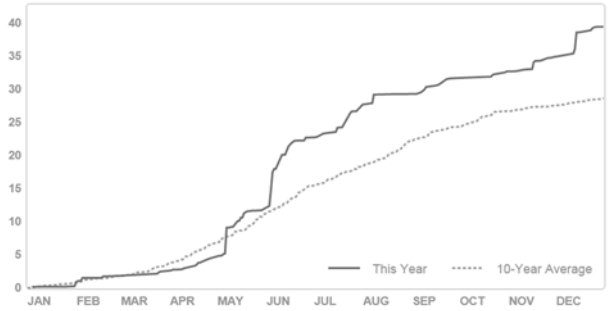
Nebraska On-Farm Research Network

QuickRoots™ on Corn

Study ID: 032035201503
County: Clay
Soil Type: Hastings silt loam; Hastings silty clay loam;
Planting Date: 4/28/15
Harvest Date: 11/1/15
Population: 36,000
Row Spacing (in.) 30
Hybrid: DK 65-66
Reps: 6
Previous Crop: Soybean
Tillage: Conventional Till
Herbicides: ***Pre:*** 13 oz./ac Verdict ***Post:*** Unknown
Seed Treatment: None
Insecticides: 6 oz/ac Capture LFR soil applied
Foliar Fungicides: 10 oz./ac Headline Amp

Fertilizer: 11-52-0 zone applied on 1/22/15;
100 lb. actual N/ac preplant;
120 lb. actual N/ac sidedress;
20 lb. actual N/ac foliar.

Irrigation: Pivot, Total: 4.5"
Rainfall (in.):



Introduction: QuickRoots™ wettable powder was mixed according to directions and applied to corn seed. Application rate was 7.2 grams per 80,000 kernals. Product active ingredients are shown at right. The check treatment was the grower's standard starter fertilizer - 3 gal 6-24-6 with 1 qt/acre micromax (2% Magnesium, 0.25% B, 2% Zn, 1.6% Fe, 0.5%Cu). The QuickRoots™ treatment also included the standard starter fertilizer plus the treated seed.

Extended Label

Microbial seed inoculant for improving nutrient availability for increased yield potential

Application Rate
7.2 g per 80,000 kernels (bag). Bucket treats 625 bags.

MINIMUM GUARANTEED ANALYSIS
ACTIVE: *Bacillus amyloliquefaciens TJ1000* .....3.1 x 10^8 cfu/g
Trichoderma virens GI-3.....7.4 x 10^7 cfu/g
INERT: wettable powder, 73.0%

QuickRoots™ is composed of live microorganisms which can quickly colonize and grow with the root as a plant develops.

Product information from:
http://www.kellysolutions.com/erenewals/documentsubmit/KellyData/ND%5CFertilizer%5CProduct%20Label%5CQUICKROOTS_WETTABLE_POWDER_FOR_CORN_0_0_0_3_16_2015_3_23_10_PM.pdf

Results:

	Yield (bu/ac)†	Moisture (%)	Marginal Net Return ($/ac)‡
Starter (3 gal 6-24-6 + 1 qt Micromax)	241 A	14.1 A	879.65
Starter + 7.2g Quick Roots / 80,000 kernels	242 A*	14.2 A	875.66
P-Value	0.5161	0.2292	N/A

†Bushels per acre corrected to 15.5% moisture.
*Values with the same letter are not significantly different at a 90% confidence level.
‡Net Return based on $3.65/bu corn and $7.64/ac QuickRoots treatment.

Summary: The addition of QuickRoots™ did not result in an increase in yield or moisture differences.

In Partnership with: