

TerraNu[®] Technology

Soil Health in Every Granule[™]

2018 Third Party Research Studies and On-farm TerraNu[®] Corn Trials

Summary:

- 86% of TerraNu trials showed an increased yield vs. the grower standard blend.
- 70% of TerraNu trials demonstrated improved nutrient use efficiency in tissue testing performed at V5 and VT.

TerraNu MicroPack Third Party Research Studies

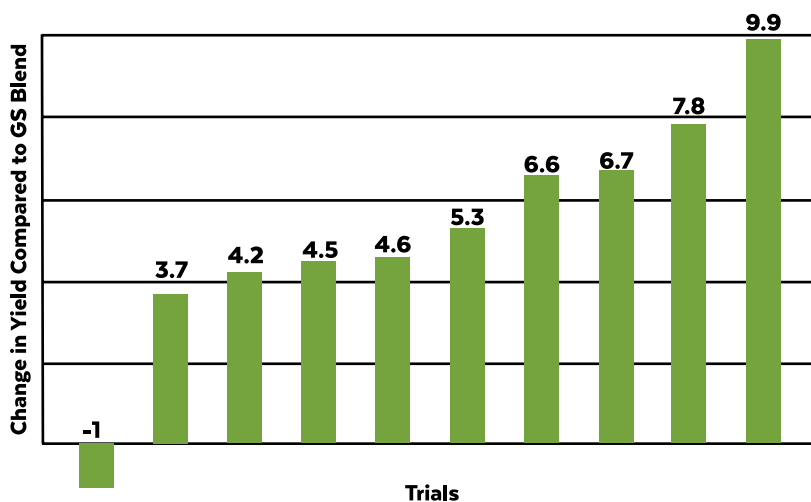
Findings:

- Up to a \$12 return on investment/acre.* Calculation is based on an application rate of 35 lbs./acre of TerraNu MicroPack vs. a grower standard blend.
- 90% had a positive yield response; with the average yield being 5.2 bu./acre.
- 8% more nitrogen uptake at V4 when compared to control.

Third Party Researchers Included:

- Agri-Tech Consulting (WI)
- AgTech (MO)
- Continuum Ag (IA)
- SGS (SD)
- SynTech Research (IA)

Corn Yield Advantage with TerraNu[®] MicroPack (bushels/acre)



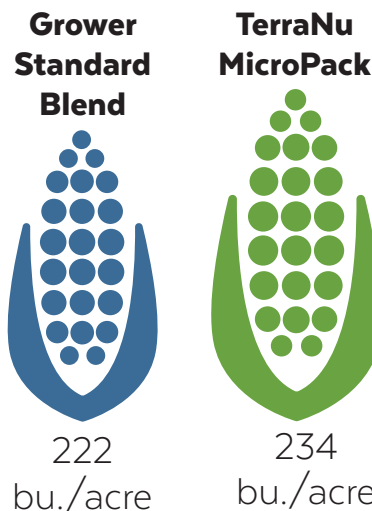
TerraNu MicroPack On-farm Trials

TerraNu MicroPack

- \$18 average return on investment/acre.* Calculation is based on an average application rate of 37 lbs./acre of TerraNu MicroPack vs. a grower standard blend.
- 12 bu./acre average yield increase.
- 70% showed improved nutrient use efficiency (N, P, K and micronutrients).

MicroPack vs. Grower Standard Blends

Timing	Boron	Zinc	Copper
V5	+20%	+6%	+12%
VT	+8%	+7%	+7%



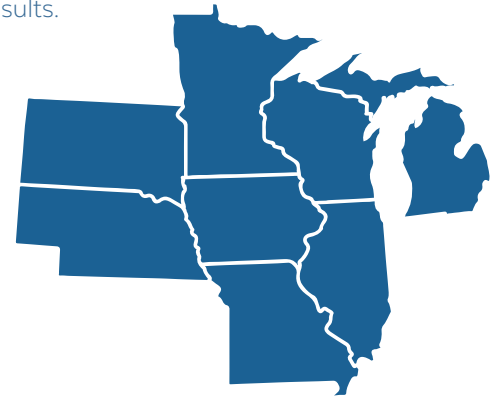
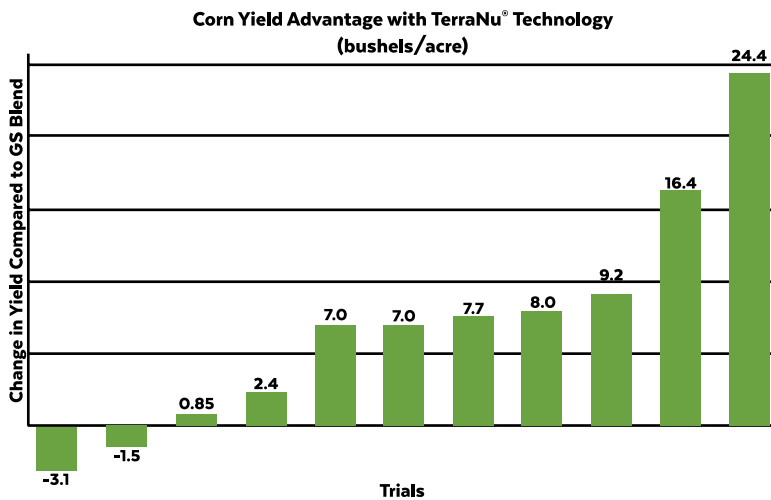
+12
bu./ac.
average

*ROI equation used 2018 average corn price (\$3.40).

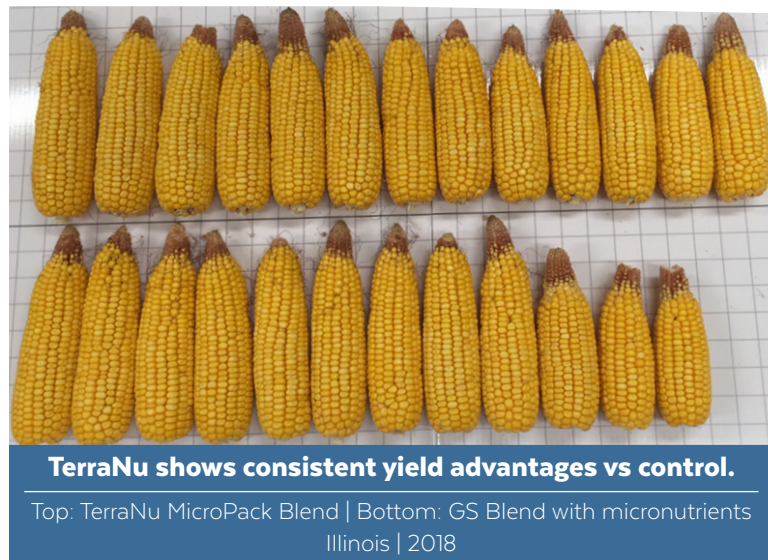
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TerraNu Technology On-farm Trials

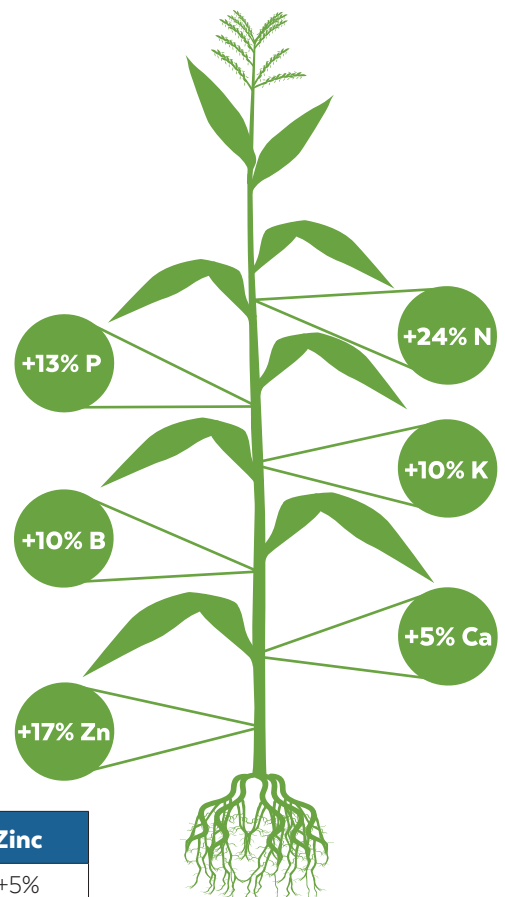
TerraNu MicroPack, Calcium and Ignite products are featured in the following results.



- 82% of trials showed a positive yield.
- Trials conducted in: IA, IL, MI, MN, MO, NE, SD and WI.



Nutrient Use Efficiency at VT with TerraNu Technology



TerraNu Ignite and TerraNu Calcium

- 8 bu./acre average yield increase.
- 88% of on-farm trials showed improved nutrient use efficiency (N, P, K and micronutrients).
- Tissue samples analyzed at V5 and VT showed higher levels of key nutrients in TerraNu when compared to the control. See individual nutrient results below.

Timing	Nitrogen	Phosphorus	Potassium	Boron	Calcium	Zinc
V5	+6%	+3%	+1%	+7%	+3%	+5%
VT	+24%	+13%	+10%	+10%	+5%	+17%

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