



**Humihance<sup>®</sup>**

Monty's Innovative Fertilizer Coating

# Humihance

Humihance is a humic-based fertilizer coating that will quickly and efficiently provide nutrient management benefits without inhibiting the activity of the soil's natural bacteria. Humihance also provides all the natural benefits of Monty's proprietary, activated humic technology to the plant and soil. It is ideal for use when blending all granular fertilizers and is compatible with a variety of micronutrients and pre-treated fertilizers.





# HUMIHANCE®

## 1-0-0

### GUARANTEED ANALYSIS

Total Nitrogen (N) . . . . . 1%  
 .55% Ammoniacal Nitrogen (N)  
 .45% Urea Nitrogen (N)

*Derived from Ammonium Hydroxide and Urea*

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Humic Acids . . . . . 6%

*Derived from Lignite*

Other Ingredients (Water) . . . . . 94%

For improved nutrient uptake

For Tobacco Use: Chlorine (Cl) Maximum . . . . 0.02%

### PRODUCT DESCRIPTION

Monty's Humihance is a humic-based fertilizer coating that quickly and efficiently delivers the natural benefits of humic substances to the plant and soil, plus Nitrogen. It is ideal for use when blending granular fertilizer and is compatible with a variety of micronutrients and pre-treated fertilizers.

### DIRECTIONS FOR USE

Use only as directed. During the last step of the blending process, apply 1/2 gallon of Humihance per ton of fertilizer. This product may be applied to pre-treated fertilizer. Flush pump thoroughly with water after use.

**Net Contents - 2.5 US Gal (9.46 Liters)**

**Net Weight - 21 Lbs (9.8 Kg)**

8.66 Lbs/Gal at 68° F



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[www.montysplantfood.com](http://www.montysplantfood.com)  
 Monty's Plant Food Company  
 4800 Strawberry Lane  
 Louisville, KY 40209  
 800-978-6342



# Humihance

## GENERAL APPLICATION

During the last step of the blending process, apply 1/2 gallon of Humihance per ton on the fertilizer. This product may be applied to fertilizer pre-treated with Avail®, NutriSphere-N®, or Agrotain®. For crop specific application information, contact your representative.

Avail and NutriSphere-N are registered trademarks of Verdesian Life Sciences, LLC.  
AGROTAIN is a trademarks of Koch Agronomic Services, LLC.

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# Humihance Mechanisms

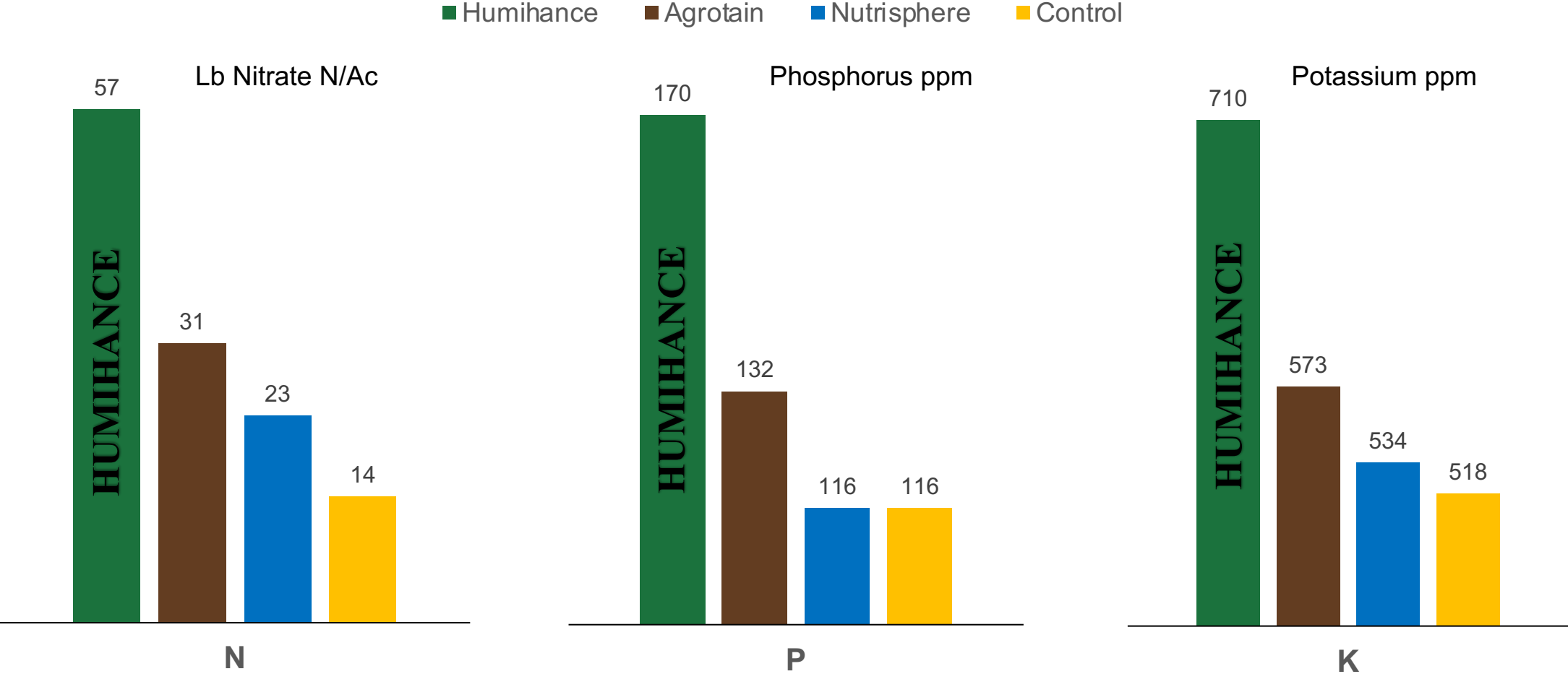
- Decreases nutrient loss, while increasing nutrient efficiency availability
- Does not inhibit the activity of the soil's natural bacteria
- Reduce fertilizer salt toxicity
- Improves overall soil health with every granule
- Improve organic matter conversion
- Reduce soil compaction for better root development and planting conditions
- Improve moisture retention and improve nutrient uptake
- Is non-corrosive
- Can be used to stabilize Anhydrous Ammonia
- Can be used through Anhydrous Inductors
- Contains 1% Nitrogen

# Humihance: Benefits

- Easy application
- Doesn't make blends wet – water evaporates under ambient conditions
- No lumps, aggregates, scaling, buildup
- Reduces nitrogen volatilization due to nitrification & denitrification\*
- Slower/controlled release\*
- Reduces salt toxicity\*
- Increased nutrient utilization\*

*\* Lab and field tests show confirmation.*

# Enhancing NPK for soil availability



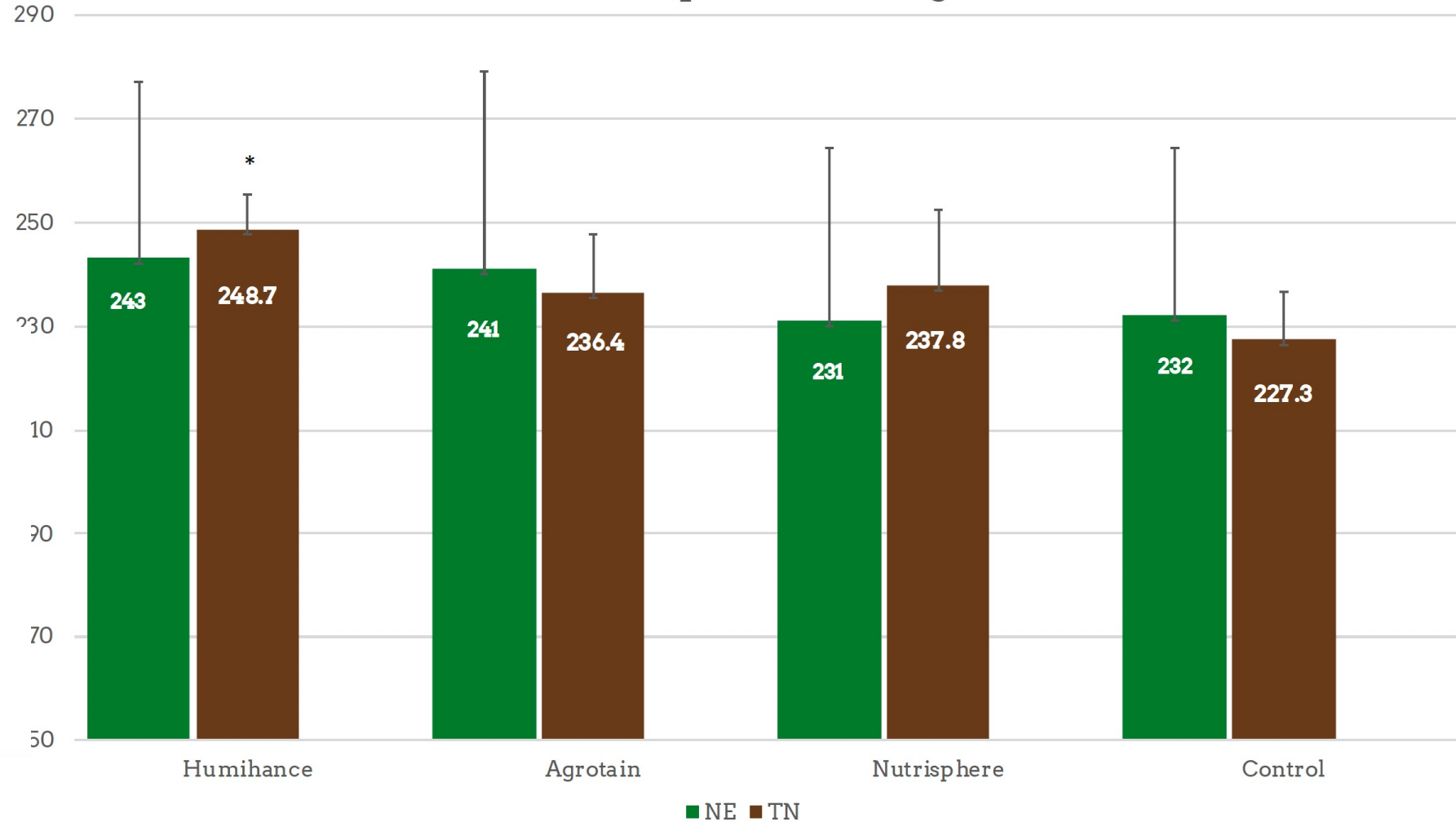
Real Farm Research, located in Aurora, NE conducted this study during the 2018 season. The plots were planted in corn, and the soil samples were taken from the respective plots when corn was at growth stage R3. Rates per ton of Urea: Humihance 4 qt, Agrotain 2 qt, Nutrisphere 2 qt.

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# Humihance Outperforms Competitors

Humihance vs Competitors. Average Yield 2018-2020



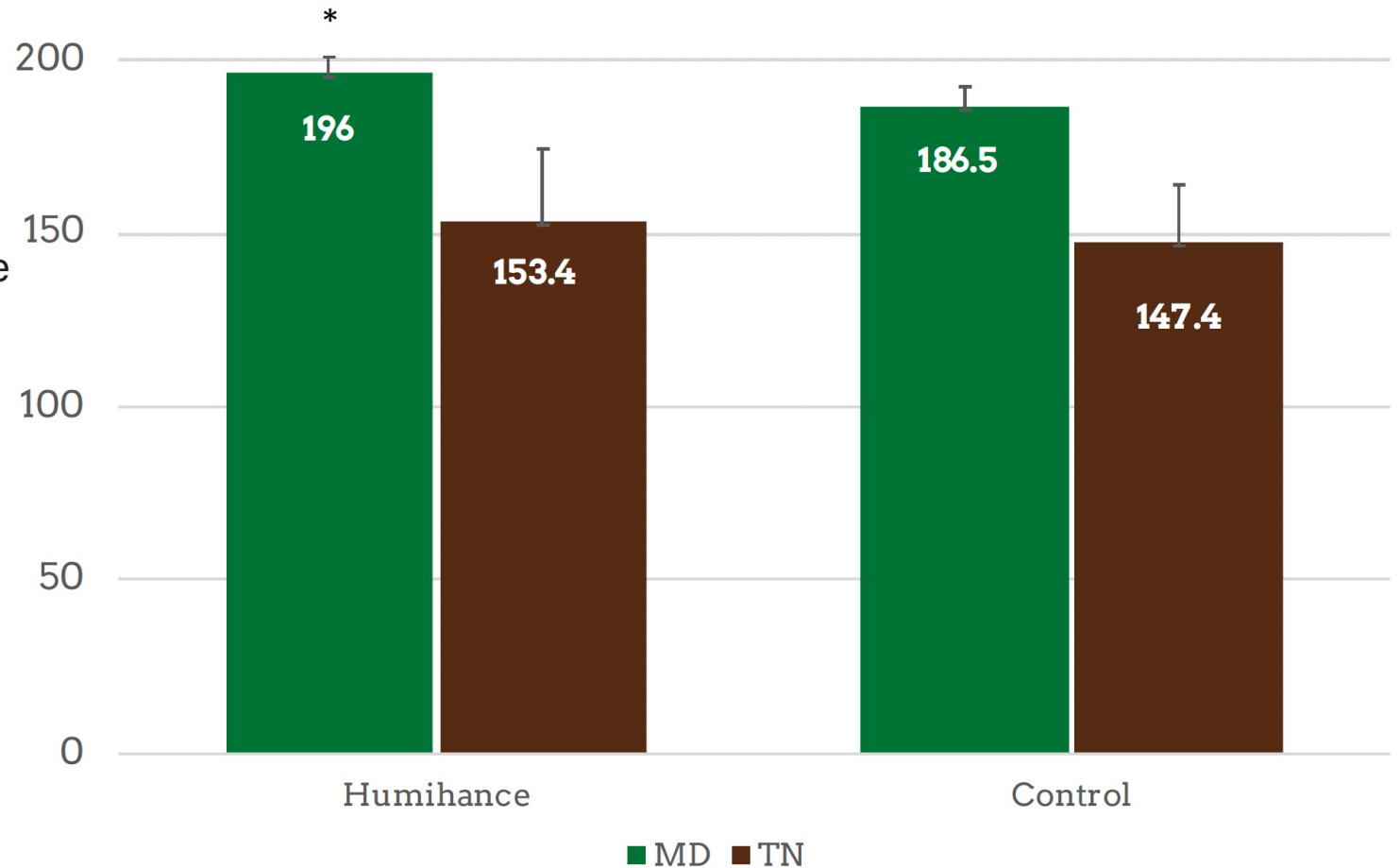
Average ROI		
Treatment	Price/Ac*	ROI/Control Per Acre
Humihance	\$983.52	\$44.80
Agrotain	\$954.80	\$11.25
Control	\$918.60	--

\*Calculated at \$4.00 Bu; Humihance at \$80.00/gal; Agrotain: \$99.98



# Humihance Increases Corn Yield

## Corn Yield



### Efficacy Trials:

**Humihance significantly increased corn yield compared to the control plots across multiple locations and years.** Three replicated trials were carried out between 2019-2020 in three different locations in MD and TN. Humihance application increased yield by an average of 8 bu/A and had an average ROI of \$27.27/A.

Average ROI		
Treatment	Price/Ac*	ROI/Control Per Acre
Humihance	\$727.00	\$27.27
Control	\$693.87	--

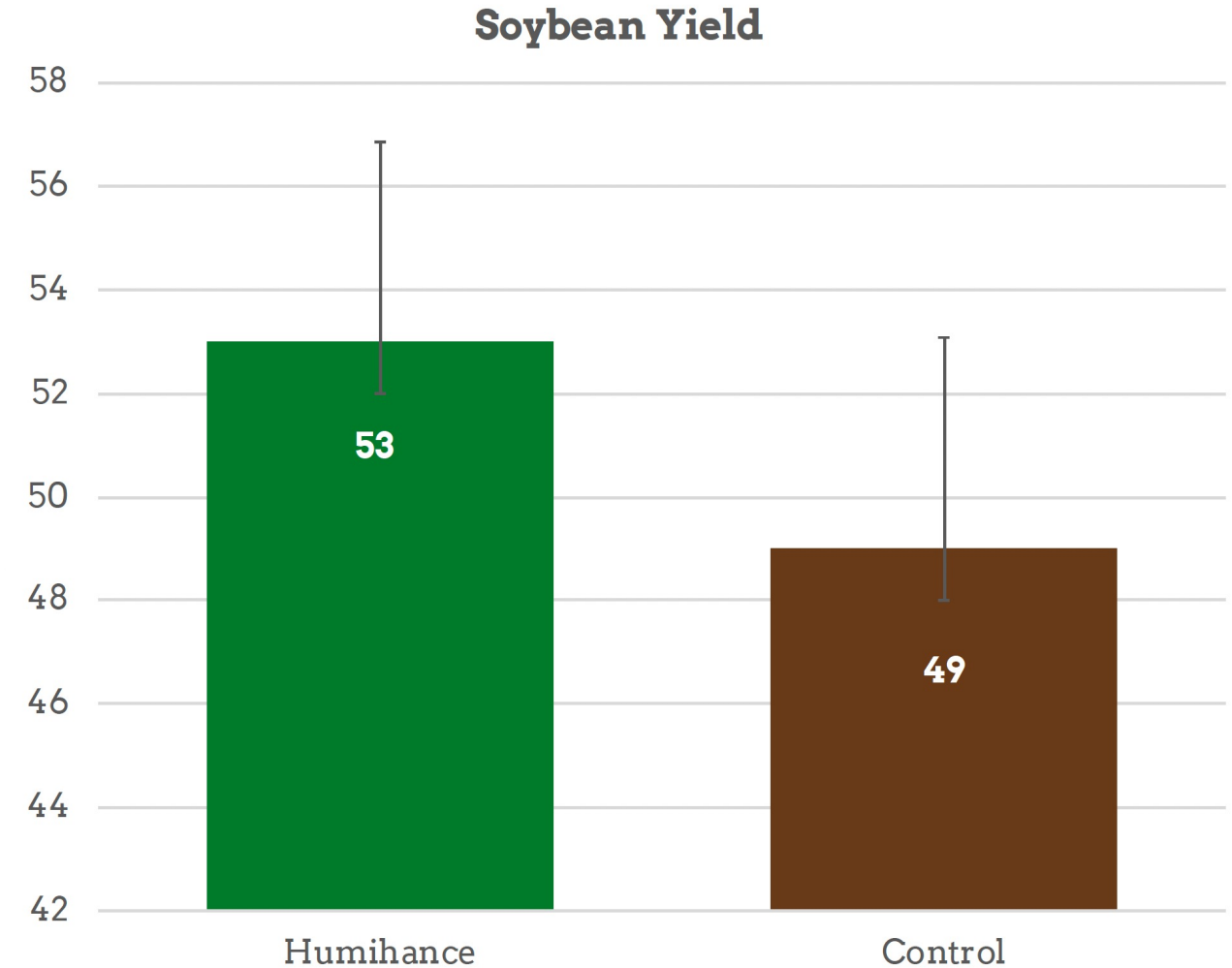
*\*Calculated at \$4.00 Bu; Humihance at \$80.00/gal*

# Humihance Increases Soybean Yield

## Soybean Trial

**Humihance increased soybean yield and ROI compared to the control plots.** One replicated trial was carried out in 2019 in MD. Adding Humihance to dry fertilizer inputs increased yield by 4 bu/A compared to dry fertilizer inputs alone and had an ROI of \$30.00/A.

ROI		
Treatment	Price/Ac*	ROI/Control Per Acre
Humihance	\$530.00	\$30.00
Control	\$490.00	--



\*Calculated at \$10.00 Bu/A; Humihance \$80.00 gal

# Humihance Application

Side by Side Coating:



NPK fertilizer coated with Humihance.



Applying coated NPK in the field.

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**Dri-Carbon<sup>®</sup>**

Granulated Humic

# Dri-Carbon

- Enhanced micronutrient uptake
- Improved soil-moisture retention
- Catalyst for microbial activity
- Readily soluble with moisture
- Can be applied with dry fertilizer
- Recommended Application Rate: 10-20 lb/A



# MONTY'S<sup>®</sup> DRI-CARBON<sup>™</sup>

## GUARANTEED ANALYSIS

### SOIL AMENDING ACTIVE INGREDIENTS:

Humic Acids .....47%  
18% Organic Carbon

*Derived from Brown Coal*

### OTHER INGREDIENTS:

Lignite Coal.....53%

## PRODUCT DESCRIPTION

Monty's Dri-Carbon is a granular soil conditioner designed to help enhance organic matter in your soils. Dri-Carbon rapidly disperses once it comes into contact with moisture. Dri-Carbon contains Monty's activated humic, which is processed using our proprietary technology. Humic substances have been shown to help increase organic matter, improve micronutrient uptake, and improve moisture retention in soil. Contact your local Monty's representative for more details.

## LIMITED WARRANTY

Monty's warrants that this product meets its manufacturing specifications. If it does not, Monty's will, at its option, replace the product or refund the purchase price. In no event shall Monty's be liable for special, incidental or consequential damages or for damages in the nature of penalties. Monty's shall not be liable in any way for claims resulting from any use of this product which is not in strict accordance with all directions, cautions, and warnings on the label.

For Commercial Use



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## DIRECTIONS FOR USE

Dri-Carbon can be applied in Fall or Spring. For best results, product should be applied in the Fall, following harvest, and may be blended or applied with dry products. This will allow Dri-Carbon ample time to disperse thoroughly in the soil structure prior to Spring. Alternately, Dri-Carbon may be applied in the Spring with dry products.

Apply at a rate of 8 to 10 pounds per acre depending on soil type. Light, sandy soils may require heavier applications. Fertile, loam-type soils may require lighter applications. Dri-Carbon may be mixed with most granular applications or other dry products including animal manures. When applying as a mix with other granulated products, ensure even distribution by mixing thoroughly before application. For smaller areas, apply 1 pound per 4,356 square feet for standard applications and 2 pounds for heavier applications. Consult your local dealer for recommended rates for your particular region, soil type, and specific usage.

## STORAGE AND HANDLING INSTRUCTIONS

Store Dri-Carbon in a dry place. During periods of high humidity, take precautions such as the addition of a drying agent during mixing or application to prevent clumping. Do not mix with other products which contain high levels of moisture. Do not mix or apply while raining. Prior to application, do not expose product to rain. Failure to follow these precautions may cause clumping or cause Dri-Carbon to adhere to spreading equipment. Refer to SDS for other safety and handling information.

*Information regarding the contents and levels of metals in this product is available on the Internet at: <http://www.aapfco.org/metals.htm>*

Net Contents - 2,000 Lbs (9071 Kg)



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# Monty's Carbon Improves Soil Health Properties

Physical and Chemical Properties	Pre-application	2 weeks post-application	Change due to addition MLC
Saturation Percentage	52	63	+ 11
pH	7	7.1	+0.1
OM %	3.2	4.1	+0.9
FIZZ (bi-/carbonates)	-	+++	Increased
Electrical Conductivity (ECe)	3.39	3.02	-0.37
Exchangeable Sodium Percentage (ESP)	6.3	5.2	-1.1

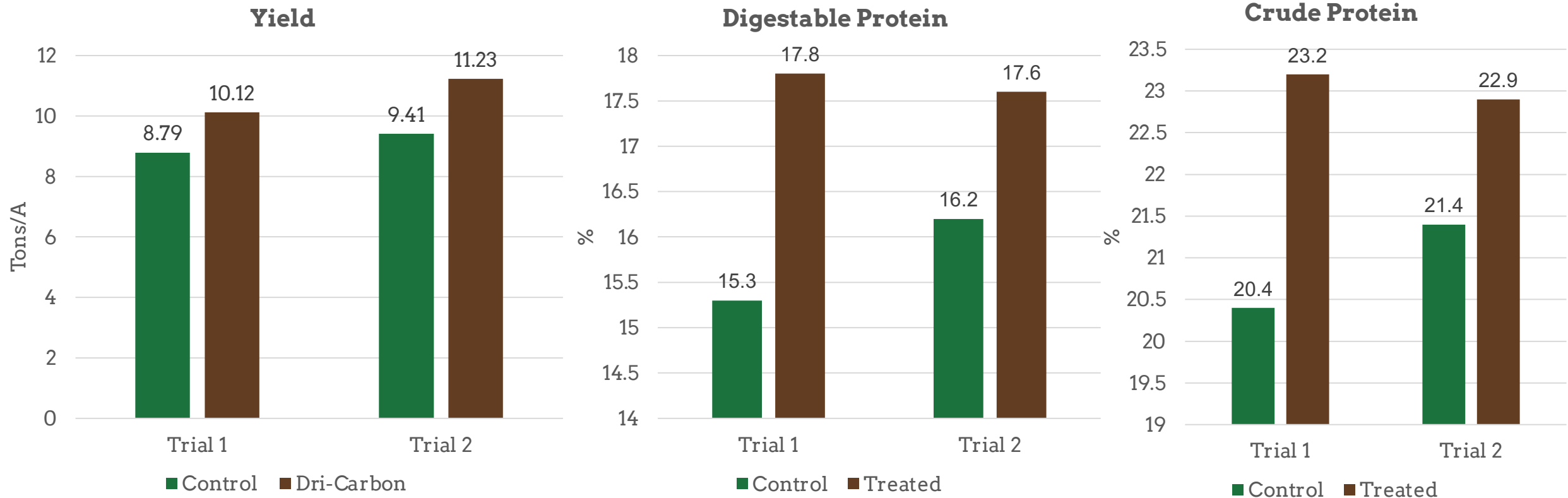
## Field Design

- Monty's Liquid Carbon (liquid form of Dri-Carbon) applied at 2 qt/A applied to the soil of Spring Lettuce.
- Soil analysis pre-app and 2-weeks post-app.

## MLC Impact on Soil

- Increases SOM
- Increased water holding capacity
- FIZZ: CO2 conversion into new soil minerals (carbonates)
- Salt content reduction (EC, ESP, Na)

# Dri-Carbon Increases Alfalfa Yield and Protein



- 11 lb per acre to Alfalfa strips





# **MONTY'S**<sup>®</sup>

**PLANT & SOIL PRODUCTS**



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