



HUMIHANCE®

Innovative Nutrient Management



**MAXIMIZE
YOUR FERTILIZER
THIS FALL!**

Mix Humihance with your fall P&K for maximum efficiency and higher ROI!

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 patented, 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 pretreated fertilizers.

- Can decrease nutrient loss, while increasing nutrient efficiency
- Does not inhibit the activity of the soil's natural bacteria
- Can help reduce fertilizer salt toxicity
- Can improve overall soil health with every granule
- Can improve organic matter conversion
- Can reduce soil compaction for better root development and planting conditions
- Can assist with moisture retention and improve nutrient uptake
- Is non-corrosive
- Can be used to stabilize Anhydrous Ammonia
- Can be used through Anhydrous inductors

ACTIVE INGREDIENTS

Total Nitrogen (N)1%
 .55% Ammoniacal Nitrogen
 .45% Urea Nitrogen
Derived from Ammonium hydroxide, Urea
Non-plant food ingredients:
 Humic Acids..... 6%
Derived from Lignite

Available in 2.5, 55, 275 gallon—and bulk sizes. Please check with your dealer for availability and application rates or visit www.montysplantfood.com.

APPLICATION RATES

GENERAL: During the last step of the blending process, apply ½ gallon of Humihance per ton of fertilizer. This product may be applied to fertilizer pretreated with Avail, NutriSphere-N, or Agrotain. For crop specific application information, contact your representative.

HIGH YIELD: Apply 1-2 gallons of Humihance per ton on fertilizer. Monty's high yield program can vary for crops, application rates and timing. If you are interested in a high yield program, contact your Monty's representative.



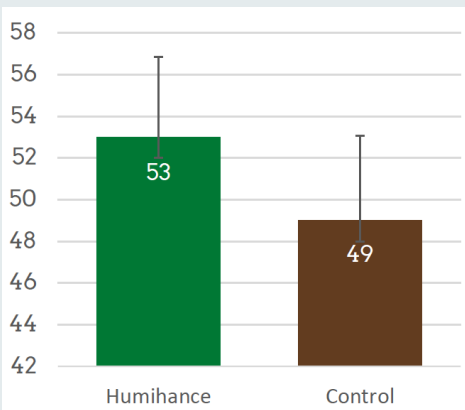
Avail and NutriSphere-N are registered trademarks of Verdesian Life Sciences, LLC. AGROTAIN is a trademarks of Koch Agronomic Services, LLC.

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TRIAL DATA

Soybean Yield - 2019 Maryland



ROI*		
TREATMENT	PRICE/A	ROI/CONTROL PER ACRE
Humihance	\$530.00	\$30.00
Control	\$490.00	—

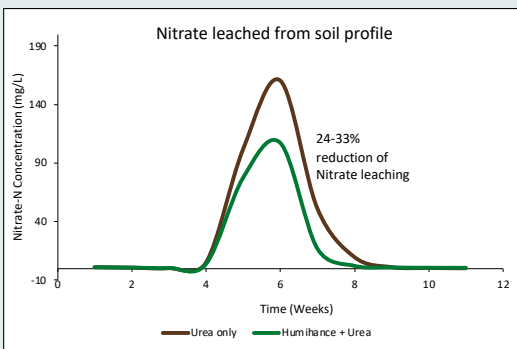
*Calculated at \$10.00 Bu/A; Humihance \$80.00 Gal

Humihance increases soybean yield and ROI compared to the control plots. 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.

“ After more than nine years of research with humics, I have found that applying Humihance with Monty's innovative humic technology directly on the fertilizer, increases the fertilizer's efficiency. Farmers can see as much as 20% more efficiency out of their fertilizer application. ”

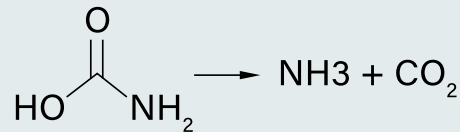
DR RON HEINIGER, N.C. State University

33% REDUCTION IN NITRATE LEACHING²



19.8% INCREASE IN SOIL ORGANIC MATTER¹

86% MORE AMMONIUM IN THE SOIL PROFILE AS COMPARED TO UREA ALONE, FOR LONGER PLANT AVAILABILITY^{2,3}



Urea + water yields ammonia + carbon

Urea is an organic form of N. When coated with Humihance, mineralization (by hydrolysis reaction) of N to NH_4^+ is gradual due Humihance serving as a barrier to protect the mineralization process. This causes a gradual release of NH_4^+ and nitrification to NO_3^- is slowed.

IMPROVE THE EFFICIENCY OF YOUR FERTILIZER

For more information contact your Monty's representative, visit montysplantfood.com, or call 800-978-6342.

1. Soil analysis completed 60 days after application. Soil samples were average across 4 replicates.
2. In University trials, soil column study with four replications, was conducted in sandy loam soil comparing urea only to urea coated with Humihance at 0.5gal/dry ton. Similar results were found in clay and sandy soil types.
3. After 12 weeks soil was tested for N. Since NH_4^+ is positively charged, it is attracted to the cation exchange sites in the soil. The Organic N, which is the index for the urea N, suggests that in urea only application, all the urea N has been mineralized while the Humihance coated urea still has the some Organic-N pool that the plant can use in the succeeding weeks.



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