

RESEARCH FOR RESULTS



Security Seeds Morganfield UREA – UAN Trials

OVERVIEW: This trial compares Ultra Boost and Growth Boost treated and untreated nitrogen applications at 130 and 180 units of N to demonstrate nutrient stabilization as measured by yield.

LOCATION: Morganfield, KY Corn Plot

PLOT SIZE: 408' x 10' (4 x 30" rows per plot)

HYBRID: AgriGold 6517 @ 33K population

PLANTING DATE: 5/9/2015

WEED TREATMENT: **Pre-Plant:** Verdict (10) ounces with Zidua at (1.5) ounces per acre.
Post-Emergence: Halex at (3.6) ounces per acre at V5

TREATMENTS: **Pre-Plant:** 180 pounds of DAP & 180 pounds of Potash per acre.
Pre-Plant: ⁴ **Ultra Boost** treated UREA [(1) gallon Ultra Boost per ton of Urea] was applied to appropriate plots.
At Planting: 9-24-3 Pro-germinator at (3) gallons with (1) quart Zinc was applied in furrow with Capture LFR at (3.4) ounces per acre. 30 units of Nitrogen from 32-0-0 was applied 2x2.
Post-Emergence: 32-0-0 UAN side-dress with and without ³ **Growth Boost** was applied the last week of May (5/28/15). 2 quarts per acre Growth Boost was applied to 130 units per acre of N and 3 quarts per acre was applied to 180 units per acre of N from 32-0-0 UAN.

CONDITIONS: TURBO-TILL

Morganfield							
Urea						Increase	ROI
Soil Biotics 180 treated	15.9	54.3	1048	390	206.81	10.34	\$34.18
Soil Biotics 180 untreated	16.1	54.1	998	390	196.48		
Soil Biotics 130 treated	16.2	54.1	906	390	178.15	10.61	\$35.69
Soil Biotics 130 untreated	15.8	54	848	390	167.54		
32%UAN							
Soil Biotics UAN 180 treated	16	54.2	1042	390	205.38	6.15	\$7.91
Soil Biotics UAN 180 untreated	16.1	54.1	1012	390	199.23		
Soil Biotics UAN 130 treated	15.9	54.2	1000	390	197.34	2.76	\$0.59
Soil Biotics UAN 130 untreated	15.9	54.2	986	390	194.58		

SUMMARY: The Ultra Boost and Growth Boost treated nitrogen applications resulted in higher yields and positive ROI*.

*ROI is based on \$3.50 per bushel corn and estimated producer costs of ³ **Growth Boost** at \$18.15 per gallon and ⁴ **Ultra Boost** at \$22.15 per gallon.

We have colored the columns with the yield increases and ROI to show that they were added by SoilBiotics.