

# RESEARCH FOR RESULTS



## Security Seeds Hopkinsville UREA – UAN Trials

**OVERVIEW:** This trial compares **4 Ultra Boost** and **3 Growth Boost** treated and untreated nitrogen applications at 130 and 180 units of N to demonstrate nutrient stabilization as measured by yield.

**LOCATION:** Hopkinsville, KY Corn Plot

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

**HYBRID:** AgriGold 6517 @ 32K population

**PLANTING DATE:** 5/2/2015

**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 & 100 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 28-0-0 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 **3 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:** NO-TILL

Hopkinsville							
Urea	%M	TW	LBS	Length	Yield/Bu	Increase	ROI
Soil Biotics 180 treated	16.4	54.2	1120	408	210.01	8.44	\$27.55
Soil Biotics 180 untreated	17.4	54.3	1088	408	201.57		
Soil Biotics 130 treated	16.9	54	1108	408	206.52	7.56	\$25.03
Soil Biotics 130 untreated	17.1	55	1070	408	198.96		
32% UAN							
Soil Biotics UAN 180 treated	18.1	54.3	1332	408	244.69	-8.51	-\$43.39
Soil Biotics UAN 180 untreated	18.2	54.3	1380	408	253.19		
Soil Biotics UAN 130 treated	19.2	54.2	1188	408	215.30	11.27	\$30.36
Soil Biotics UAN 130 untreated	17.9	54	1108	408	204.03		

**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.