

Fertilizer By SHUR-GRO™ vs. CHEMICAL FERTILIZER Indiana Corn Test Plot

Corn from Test Plot at Nappanee, Indiana.

Variety of Corn	Fielders Choice
Date Planted	May 10, 1999
Chemical Fertilizer Used	18-46-0
Application Rate	200 lbs. per acre in row with planter
SHUR-GRO Fertilizer Used	12-4-10-12S
Application Rate	200 lbs. per acre in row with planter
Extra Nitrogen	None applied on either Chemical or SHUR-GRO™
Herbicide Used	Atrazine and Lasso
Insecticide Used	None applied on either Chemical or SHUR-GRO™

SHUR-GRO™ (12-4-10-12S) Root System **vs.** **Chemical (18-46-0) Root System**



SHUR-GRO™ ears measure 20% longer than chemical ears, thus 20% larger yield. Note purple stalks on chemical which is due to sugar imbalance caused by mineral imbalance in the soil.

SOIL ANALYSIS

Soil samples were taken between the roots of each stalk as the fertilizer was placed below the seed at plant time. See test results below.

No bushel per acre test was made but is estimated at 150 bushel per acre on the **Chemical** and 170 Bushel per acre on the **SHUR-GRO™**.

PROTEIN			
<u>SHUR-GRO™</u>		<u>CHEMICAL</u>	
Dry Weight	9.90%	Dry Weight	7.50%
TDN	91.70%	TDN	92.60%
PHOSPHATE			
<u>SHUR-GRO™</u>		<u>CHEMICAL</u>	
Phosphate P1	52 ppm/ 104#/acre	Phosphate P1	34 ppm/ 068#/acre
Phosphate P2	99 ppm/ 198# acre	Phosphate P2	58 ppm/ 116# acre
POTASH			
<u>SHUR-GRO™</u>		<u>CHEMICAL</u>	
Potassium	182 ppm/ 364# acre	Potassium	169 ppm/ 330# acre
SODIUM			
<u>SHUR-GRO™</u>		<u>CHEMICAL</u>	
Sodium	12 ppm/ 24#/acre	Sodium	43 ppm/ 86#/acre
HYDROGEN			
<u>SHUR-GRO™</u>		<u>CHEMICAL</u>	
Base Saturation	7.50%	Base Saturation	0.00%

Just the increase in phosphate and potash will result in an increase of fertility value. The phosphate at \$.20 per lb. (\$7.20 more on **SHUR-GRO™**) and potash at \$.10 per lb. (\$3.40 more on **SHUR-GRO™**), thus a total increase in fertility of \$10.60 per acre. This along with a gain in protein at 2.4% definitely makes **SHUR-GRO™** a much better buy for the money.

NOTE: Costs based on prices at time of test plot. (1999)