

# Soybean Response Trial - 2006

## PELLETIZED LIMESTONE TECHNOLOGY

**Table 1 - Soybean Response to Pelletized Lime**

Treatment		2006 Yield	Yield Gain Over Control	Economic Return Over Control*	8-Year Yield Gain Over Control
<b>1</b>	Soybean Fertilizer Program w/Pellet Lime 300 lbs <i>Pellet Lime</i> 100 lbs Potash	<b>60.95 bu</b>	<b>20.27 bu</b>	<b>\$84.05</b>	<b>14.1 bu</b>
<b>2</b>	Standardized Fertilizer Program 100 lbs Potash 100 lbs MAP	55.3 bu	14.62 bu	\$47.46	7.9 bu
<b>3</b>	<b>Pellet Lime Only</b> 300 lbs <i>Pellet Lime</i>	56.9 bu	16.22 bu	\$73.77	9.4 bu
<b>4</b>	Potash Only 100 lbs Potash	47.38 bu	6.7 bu	\$22.52	4.5 bu
<b>5</b>	Non-Treated Control No Treatment	40.68 bu	--	--	--
LSD (P=.05) C.V.		4.029 bu 5.01%	<b>Add'l Test Notes:</b> Ave. soil pH pre-bloom = 6.2; P levels "High"; K levels "Medium"; *Soybeans \$5.75/B; Potash \$13/cwt; MAP \$18/cwt; Pellet Lime \$5.5/cwt		

## Comments

The Pellet Lime treated plots in 2006 yielded significantly higher (Trmts 1 & 3) by over 20 bushels/acre over the non-treated control. Observers counted more pods on plants in the pelletized lime treated plots. This may be due to fewer aborted blossoms. The eight year average yield shows Pellet Lime and Potash still out yielded all other treatments with an averaged 14 bushels/acre gain over the non-treated control. Every dollar invested in treatment 1 returned \$2.59 profit!

LSD (.05) – Least Significant Difference at the 5% level of significance. In other words, there is less than a 5% chance the observed differences among the treatments could be due to chance.

C.V. – Coefficient of Variation; indicated the degree of precision with which treatments are compared and is a good index of reliability of the experiment. The higher the cv, the lower the reliability of the experiment. 6-10% is very good for fertility treatment trials. This trial was even better!

**A proven fertility program using Pellet Lime and Potash raises soybean yields and profits!**