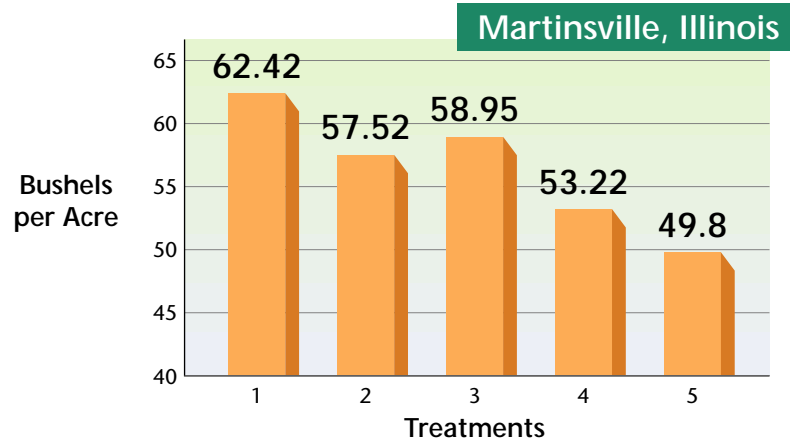
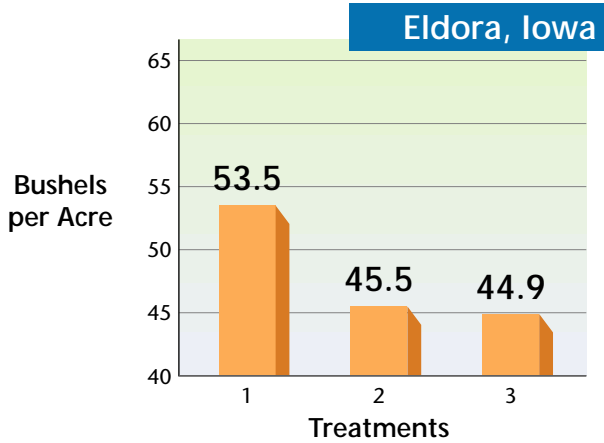


Soybean Response Data & Analysis



	Treatment 1		Treatment 2		Treatment 3	Treatment 4	Treatment 5
Eldora, Iowa	Potash	100 lb/a	Potash	120 lb/a	Untreated (no lime or fertilizer)	n/a	n/a
	Pellet Lime	300 lb/a	DAP	90 lb/a			
Martinsville, Illinois	Potash	100 lb/a	Potash	120 lb/a	Pellet Lime	Potash	Untreated
	Pellet Lime	300 lb/a	11-52-0	100 lb/a	300 lb/a	100 lb/a	
Soil pH at Preplant	6.85		6.92		6.85	6.65	6.55
Soil pH at Flower	6.75		6.75		6.95	6.82	6.70

Test notes: Eldora, IA: CEC 25; OM 3.1%; pH 5.6; P₂O₅ 13ppm; K₂O 160ppm Martinsville, IL: CEC 11, OM 2%; pH 6.75 ave.; Fertility levels are "high"

Comments

This year's soybean yields continue to show positive results at both Iowa and Illinois locations. The Pellet Lime/potash treatments at both Eldora and Martinsville had increased yields of 8.6 and 12.6 bushels/acre respectively over the non-treated control plots. Similarly, the pelletized lime treated plot yields were quite decisive as compared to the MAP and Potash mixture treatments. Treatment 1 is an example of the MPC Program used in many areas of Illinois, Indiana, Michigan, Iowa, Ohio and Wisconsin.

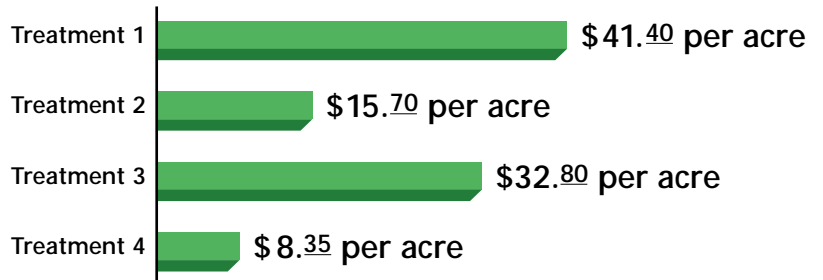
Science

Calcium uptake is a passive process and is restricted to the tip of the young roots where the walls of the endodermis cells are still actively growing. It is believed the calcium in the micro-ground lime in pellet lime moves into the xylem cells of plants by transpiration. Increased levels of calcium will promote more rapid transpiration. As a result, the Cation Ca+2 will draw other elements with it of lesser charge, both positive and negative. This can be termed the drafting effect. The element actually acts as a trucker for other elements to draft their way into plants. The micro-ground particles in Pellet Lime are key to this process. Greater nutrient uptake increases plant efficiency.

Economic Summary for Martinsville, IL

Estimated Net Return/Acre from Treatments

(Fall soybean price at local elevator \$4.90/Bushel)



These trials demonstrate the importance of Pellet Lime in a fertility program as an element additive rather than as a pH modifier. The yield boosts combined with the illustrated Martinsville soil pH levels strongly support the value of applying a micro-ground calcium.