



Alfalfa

Pelletized Lime Technology **2004**
Field Research Data and Analysis

“It is apparent that the addition of calcium as a nutrient, and not as a pH modifier, generates yield and feed value response.”

Roy Stephens, Director of Arise Research

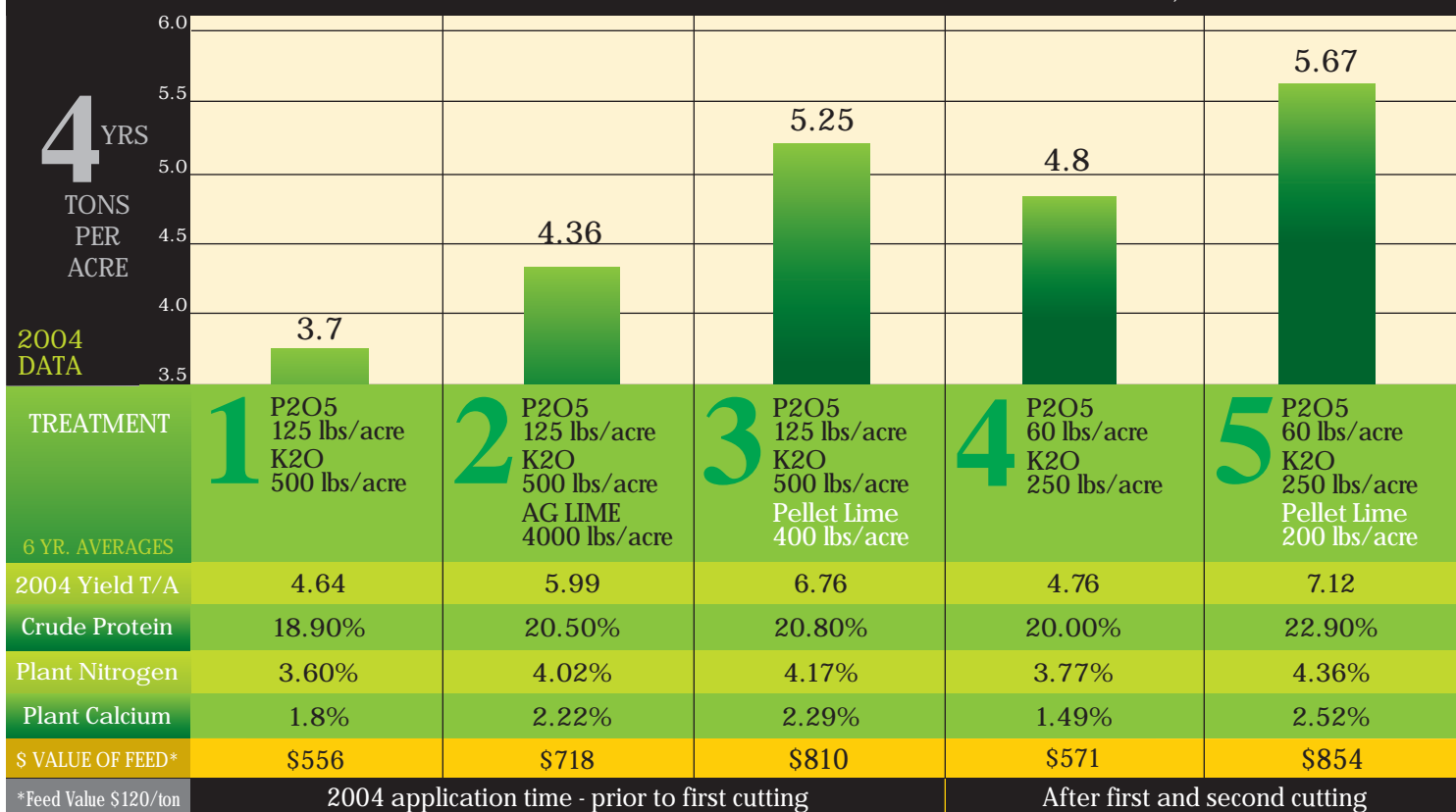


Summary:

Pellet Lime treatments “3” and “5” out yielded all other treatments including the two ton ag-lime treatment. Of special note is the “dollar value of feed” estimates. At \$120/ton value for harvested alfalfa, treatments “3” and “5” with Pellet Lime produced far greater returns than all other treatments and the crude protein values are significantly higher. The top producing treatment in both yield and quality is #5 using the split application method.

Comments: Good growing conditions produced a total of five cuttings at thirty day intervals in 2004. Impressive responses are seen with yield, crude protein, plant nitrogen and plant calcium with the addition of Pellet Lime, all of which are statistically significant.

ALFALFA 6 YEAR AVERAGE YIELD RESEARCH STUDY RESULTS/2004 Martinsville, Illinois



TREATMENT	1	2	3	4	5
6 YR. AVERAGES					
2004 Yield T/A	4.64	5.99	6.76	4.76	7.12
Crude Protein	18.90%	20.50%	20.80%	20.00%	22.90%
Plant Nitrogen	3.60%	4.02%	4.17%	3.77%	4.36%
Plant Calcium	1.8%	2.22%	2.29%	1.49%	2.52%
\$ VALUE OF FEED*	\$556	\$718	\$810	\$571	\$854

*Feed Value \$120/ton 2004 application time - prior to first cutting After first and second cutting

<p>Visit our website at mineralprocess.com for more information.</p>	<p>*Test Notes: Soil Test Pre-Treat Levels -Martinsville, IL; CEC 11; OM 2.3; P1 70ppm; K2O 246 ppm; Soil pH 6.8; Silty Clay Loam; Randomized Block Design with 4 Replications. The Research Data presented are results from: Arise Research & Discovery, Martinsville, Illinois; Director: Roy Stephen</p>	<p>ASC Mineral Processing Allerton, IL • (217) 834-3301 Mineral Processing Carey, OH • (419) 396-3501</p>
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