

INCREASE ALFALFA YIELDS BY 10%

With Midwestern BioAg's Bio-Cal[®]

Data from a 2016 study shows that Midwestern BioAg's Bio-Cal[®] can increase alfalfa yields by over 10 percent when used in combination with a conventional alfalfa fertility program. On plots where calcium was added to the conventional fertilizer program as part of the treatment, either Bio-Cal or a synthetic gypsum product was applied at a rate of 1,000 lbs/acre.

In both treatments, application of additional calcium improved yields over the conventional fertilizer program alone and the control. However, Bio-Cal outperformed the synthetic gypsum product with an average yield advantage of 3.7 percent, or 0.14 TDW.

Bio-Cal Improves Yields, Outperforms Competitor's Synthetic Gypsum Product			
Treatment	Yield (TDW)	Yield Advantage	Added Value
Bio-Cal (1,000 lbs/ac)	4.25 tons	10.7%	\$100.13/ac
Synthetic Gypsum Product (1,000 lbs/ac)	4.11 tons	7.0%	\$35.42/ac
No calcium added	3.84 tons	n/a	n/a

Study replicated across 42 plots at Great Lakes Agricultural Research Service in Delavan, WI; data from two cuttings in Wisconsin in establishment year. Conventional fertility program included potassium chloride (0-0-60) at 208 lbs/acre, and diammonium phosphate (DAP) at 65 lbs/acre. Added value calculated at \$1.25 per RFQ point.



About Bio-Cal

Manufactured exclusively by Midwestern BioAg in our Buffalo, Iowa, facility, Bio-Cal is a blend of multiple calcium sources that are available both upon application and later in the growing season. As a liming material, it contains 32 percent calcium and can be applied to all major crops to supplement the traditional NPK programs seen on most farms.

Bio-Cal can be applied in the spring or fall, or following cutting. Other benefits include improved forage quality, better soil structure and health, and increased winter hardiness.

©2017. Midwestern BioAg, Inc. 00412201700