Bio-Cal®

HIGHLY SOLUBLE CALCIUM

CORN SILAGE

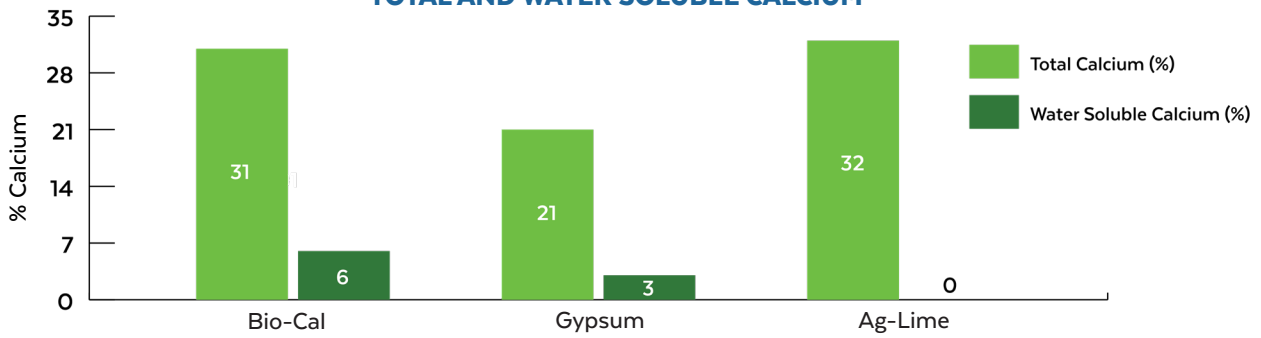
Can't afford waiting for your calcium to work? Get immediate results with Bio-Cal.

- Manufactured exclusively by Midwestern BioAg, Bio-Cal is a highly reactive soluble calcium source that helps farmers manage the most challenging soil conditions.
- Recent research shows that Bio-Cal is the key to unlocking your soil and crop yield potential.
- Bio-Cal can be applied in the spring or fall and customized with VRT application rates tailored to your soil and farming operations goals.

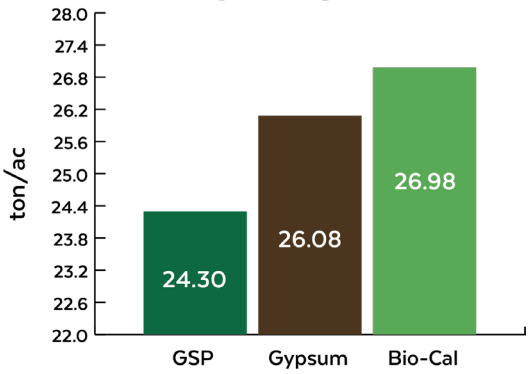
BENEFITS OF BIO-CAL FOR CORN SILAGE

- Contains 31% total calcium and 6% soluble calcium
- Improves nutrient uptake and nitrogen use efficiency
- Improves silage yield and silage quality

TOTAL AND WATER SOLUBLE CALCIUM[1]

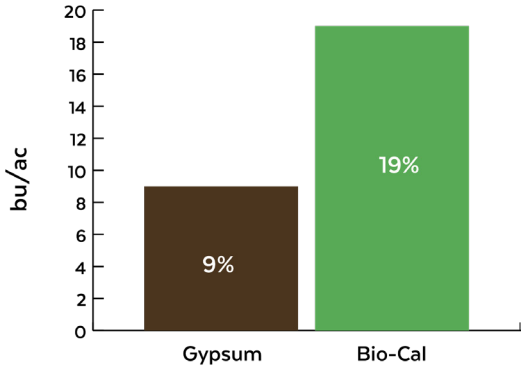


EFFECT OF CALCIUM SOIL AMENDMENTS ON CORN SILAGE YIELD @ 65% MOISTURE[1]



Bio-Cal increased corn silage yields 11% over GSP, and 3.4% over Gypsum, and increased the value of the standing silage by $157.24 per acre vs. GSP.

EFFECT OF CALCIUM SOIL AMENDMENTS ON NITROGEN USE EFFICIENCY[1]



The application of Bio-Cal resulted in an additional 27.95 lbs. of total Nitrogen available for plant uptake; 15.16 lbs. more Nitrogen than Gypsum.

1) Replicated 3rd party research conducted by Agri-Tech Consulting

Work with your consultant or agronomist to find the application timing and methods that work best for you.

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Midwestern BioAg — Better Farming Through Better Soil

nutrient stewardship PARTNER

Bio-Cal®

HIGHLY SOLUBLE CALCIUM

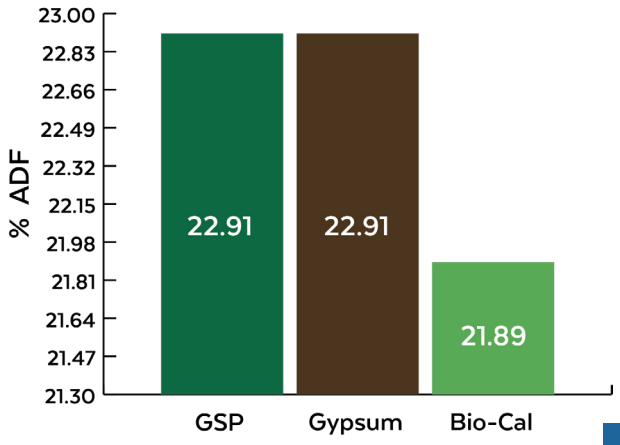
Adding Bio-Cal to your soil fertility program is a cost-effective, proven way to improve your farm's nutrient and manure use efficiency. Let the soluble calcium in Bio-Cal build soil structure for you this season, and watch as you push top-end yields, increase water availability, and improve your farm's efficiency.

INCREASED FORAGE QUALITY

Independent field trials showed that **silage from soils treated with Bio-Cal had lower levels of Acid Detergent Fiber (ADF) and Neutral Detergent Fiber (NDF)** than those treated with Grower Standard Program (GSP) or Gypsum (see graphs below).

Low ADF and NDF levels directly correlate to higher digestibility and energy gain, resulting in higher-quality forages.

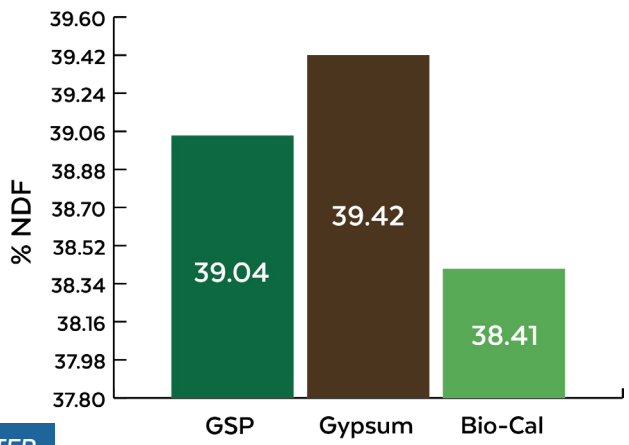
EFFECT OF CALCIUM SOIL AMENDMENTS ON SILAGE ADF[1]



Bio-Cal reported 4.5 % lower levels of ADF than both GSP and Gypsum

LOWER IS BETTER

EFFECT OF CALCIUM SOIL AMENDMENTS ON SILAGE NDF[1]



Bio-Cal reported 1.6% and 2.5% lower levels of NDF than GSP and Gypsum

Grower Standard Program (GSP)	Gypsum Treatment	Bio-Cal Treatment
11-52-0 (90 lbs/ac)	GSP +	GSP +
0-0-62 (200 lbs/ac)	1,478 lbs/acre Gypsum	1,000 lbs/acre Bio-Cal
46-0-0 (391 lbs/ac)	340 lbs of calcium applied	320 lbs of calcium applied
6-24-6 (5 gal/ac - LIF @ planting)		

Application Method: Broadcast pre-plant + LIF starter

1) Replicated 3rd party research conducted by Agri-Tech Consulting

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