

# Take Your Best Pick with Bio-Mulch™ + Sysstem® Micronutrients



On this Nebraska farm the Grower Standard Practice (GSP) for springtime pre-plant nutrition for the next corn crop has been 20 tons of feedlot manure, followed by broadcast of 100 units of treated N (urea), and 25 units of treated P (18-46-0). Working that into the soil, many growers believe, provides all the food a crop will need to turn out a good yield. But even with 55 pounds of carryover nitrogen plus the addition of urea and phosphate, the manure's nutritional components are not all plant-available early season when the emerging corn crop needs them most. They are just sitting there tied up in the soil, unavailable to the plant.

It's a good, reasonable program. But until 2013, Agro-K's Bio-Mulch™ 7-0-0 was the missing component in a really meaningful corn nutrition program on this farm. That's because the unique nutrients and fermentation enzymes in Bio-Mulch™

applied at just a quart per acre in the spring increased the soil's native microbial activity. This rapidly accelerated the breakdown of the manure into plant-available nutrition for hungry corn seedlings, giving them a crucial boost of vigor at the right physiological time to make a significant yield impact.

The farm's soil characteristics (shown below) reveal this farm is typical of heavier ground. And while soil samples after application of the GSP may indicate recommended levels of nutrients are present, the tests don't indicate whether they are plant-available. Bio-Mulch™ makes sure they are plant-available quickly, which is especially important when wet or cold weather conditions present even more challenges to an emerging crop.

This grower also took the next step in the trial by testing an added layer of nutrition by Agro-K. Sysstem®-ZMag – applied with glyphosate – provides zinc and magnesium and Sysstem®-VT – applied immediately pre-tassel – provides potassium, magnesium, calcium and boron. These foliar phosphite formulations are strategically designed to supply systemic (phloem and xylem mobile) nutrients at key growth stages resulting in robust plant health and maximum yield.

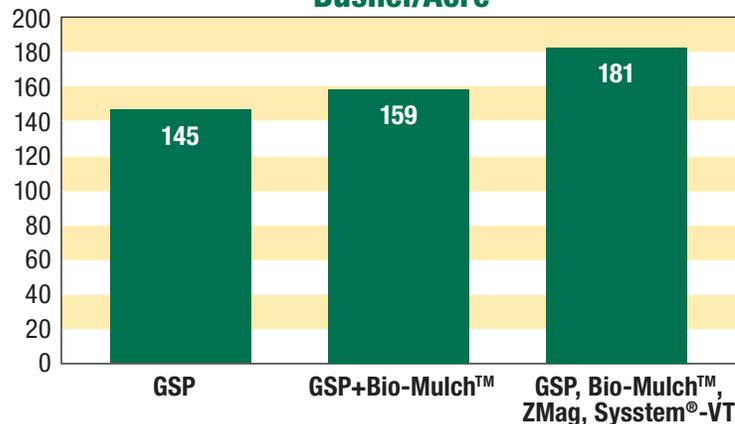
You may not get the exact same results on your farm, but for this grower the advantage was clear – 14 more bu/acre with Bio-Mulch™ alone and 36 more bu/acre with Bio-Mulch™ followed by Sysstem®-ZMag and Sysstem®-VT.

## GO AHEAD, TAKE YOUR BEST PICK.

### Soil Characteristics

O.M.	1.8%
pH	7.9
C.E.C	24.7
Weak Bray	4 ppm
Strong Bray	43 ppm
Bicarb P	8 ppm
Potash	417 ppm (4.1%)

### Bushel/Acre



Science-Driven Nutrition<sup>SM</sup>