

# Benefits of Using the Three Main Chandler Crop Products

## What are the three main Chandler Crop Products?

We market the complete line of Chandler Products, which includes products designed for crop and livestock farming, lawn and garden applications, and waste management. For Midwest crop farms, the three main products in this line are Chandler Biocat 1000, Dry Seed Treat, and Soil. These products may be used on corn, soybeans, wheat and other small grains, fruits and vegetables, alfalfa and other forages, and many other types of crops. The detailed product descriptions are provided on the back of this page.

## Do I have to use all three products?

No, you can use any of the products by itself or in combination with some or all of the other products. Unlike some other companies, we are not selling a system or package that requires you to make big adjustments in the way you operate your farm. Over the years, one of our main goals has been to help you fit the products into your individual farming operation.

In general, we do recommend that most farmers use all three Chandler Crop Products because the individual products are designed to enhance different functions of the soil and the plant. For example, many of our long-time users started by applying Soil (which enhances soil microbial activity) and then using Dry Seed Treat (which enhances seed germination) and Biocat 1000 (which enhances residue decay) later in the same season or during the next cropping year. Given that soil microbes also affect residue decay and seed germination, the performance of Dry Seed Treat and Biocat 1000 are further enhanced by the initial results achieved by Soil.

## What is the per-acre investment if I use all three products?

Many of our users apply Chandler Soil and Biocat 1000 at the pint (16 ounce) per acre rate in order to get the most effective results, and the per-acre cost of Dry Seed Treat depends on the seeding rate. In most applications, the total investment for all three Chandler Crop Products is less than \$20 per acre when the liquid products are purchased in 30 gallon drums under our seasonal discount programs. The per-acre cost will be slightly higher if you purchase the product in smaller package sizes or at the regular retail prices.

## What benefits can I get for this investment?

- Reduce seed costs by averaging at least 2,000 more corn plants per acre at harvest
- Eliminate most insecticides by increasing plant sugar levels
- Reduce herbicide application rates by 25-50% with equal or better performance
- Plant conventional hybrids and earn non-GMO premiums
- Reduce soil compaction by 5-6 inches for each year of use
- Deeper root penetration improves access to soil nutrients and moisture and reduces lodging
- Reduce water run-off and erosion problems by improving water penetration into the soil
- Produce more grain with faster dry-down and higher test weights
- Increase the availability of soil nutrients from applied fertilizers, manure, and crop residue

## What are the features of the individual products?

### CHANDLER SOIL

A liquid biological soil conditioner that is applied directly to the soil. The product may be applied by itself or in tank-mix combinations with other Chandler products as well as most liquid fertilizers and pesticides. Chandler Soil provides the following benefits:

- Stimulates the growth of beneficial soil organisms such as nitrogen-fixing bacteria
- Increases soil flocculation and improves water and air penetration
- Improves soil fertility and tilth and makes the soil easier to farm
- Reduces soil compaction by 5-6 inches for each year of use
- Helps to convert soil nutrients, applied fertilizers, and manure to forms used by the plant so that more of the nutrients are available for the next crop
- Enhances chemical performance at lower application rates and reduces carryover due to increased calcium availability in the soil

### CHANDLER SEED TREAT

A dry or liquid enzyme seed treatment applied directly to the seed at planting. The product contains micronutrients and naturally occurring enzymes, proteins, and amino acids that are designed to enhance germination, root development, and nutrient uptake to promote higher crop yields. Chandler Seed Treat offers the following benefits:

- Provides nutrients to the seedlings until the roots can take nutrients from the soil
- Seedlings have more vigor and are more resistant to temperature extremes, drought, frost, chemical carryover, insect infestations, and other sources of plant stress
- Plants develop more hair-like feeder roots that bring nutrients into the plant from the soil
- Increased germination rates with 2,000 more corn plants per acre on average
- Produces higher yields with faster dry-down and improved test weight and grain quality

### CHANDLER BIOCAT 1000

A liquid enzyme product applied directly on crop residue after harvest. Chandler Biocat 1000 contains micronutrients and naturally occurring enzymes, proteins, and amino acids that help to accelerate the residue decay process and release nutrients for use by the next crop. The product offers the following benefits:

- Faster completion of the residue decay process helps to avoid nutrient tie-up
- Residue is more manageable and does not clog planting and tillage equipment
- Cuts chemical and disease carryover and eliminates places for insects to harbor
- Reduces volunteer corn and other weed problems by decaying the seed
- The product is non-toxic and treated stalks may be pastured or grazed

## Where can I find more product information?

All of our product information is posted at our website ([www.midwestbioman.com](http://www.midwestbioman.com)), and the material includes product brochures, information about application rates and per-acre costs, on-farm yield test results and other product benefits, and several technical papers on product functions and performance. You are also welcome to contact us by telephone (309-659-7773) or by electronic mail ([info@midwestbioman.com](mailto:info@midwestbioman.com)) if you have additional questions about the Chandler Crop Products.