



# Natural Growing Through **Biology**

## A BIOLOGICAL FARM MANAGEMENT SYSTEM (BFMS®) GUIDE FOR: **Composting and Field Debris Digestion**

### QUICK COMPOSTING

1. Decomposition of organic matter into compost requires blending of a variety of materials to provide a balanced food supply for digester microorganisms. Nitrogen is the essential element for protein synthesis for microbial growth and reproduction. Carbohydrates are required for an energy and carbon source. As a general rule, use 2/3 high carbohydrate matter (dry leaves, stems, straw, paper, etc.), to 1/3 green succulent matter high in nitrogen content. Fresh green materials, like weeds or grass clippings, are high in nitrogen content.

Don't forget moisture content — too dry = slow, too wet = anaerobic

2. Mix materials to be composted thoroughly and uniformly. Break and chop the materials as much as possible. All places in the stems, skins, or leaves that have exposed or open areas are places that provide entry points for the digester microbes, so the finer the material, the faster the digestion process.

3. Add BioDigester™ at a rate of 10 grams per cubic yard of compost. BioDigester™ should be mixed with water and sprayed on using 40 - 60 gallon flood jet spray nozzles. For best results, use in combination with Pepzyme G™ or NutraNeed™ at a rate of 12.5 oz per acre and fish at a rate of 1 gallon per acre.

4. The fourth element essential to rapid composting is frequent aeration. The turning of the pile should be once every 7 days for 8 consecutive weeks. More or less frequent turnings may be necessary based on rate of digestion and temperature. The compost temperature should begin to drop down from between 140° to 160° F to approximately 110° F after the final turning. At this point the compost is finished and ready to use.

### DIGESTING ANNUAL CROP RESIDUE IN THE FIELD:

For annual crops such as wheat stubble, corn stalks, rice straw and sugar cane apply BioDigester™ in the fall at a rate of 50 grams per acre to chopped field residue. Mix with water and spray on using 40 - 60 gallon flood jet spray nozzles. For best results, use in combination with Pepzyme M™ at a rate of 12.5 oz. per acre.

*BioDigester™ will only digest dead cellulose material and will not harm live plants.*