

**UTILIZING CARBON COMPOUNDS
ON FARM AND FOREST FOR NUTRIENT MANAGEMENT
Proven Materials, Natural processes, Economic Outcomes**

“Carbon Smart” management practices use natural horticultural charcoal (“biochar”), carbon rich humic materials (“humates”), minerals (“rock dusts” and agricultural minerals) and microbes (inoculants and native microbial populations) integrated with biologic systems.

Charcoal; Horticultural Char, Activated Carbon and Biochar Blends. Readily available supplies are utilized in soil applications, in feed, in water filtration systems, in “bio-swales”, in animal bedding. Used alone or in combination with humic substances, minerals and microbes, these carbon based compounds filter water, bond and make available primary nutrients, and build carbon in soils directly by adding stabile organic carbon or by promoting microbial activity that fixes carbon in soils with measureable benefits downstream. Cost effective, simple to manage and stable over time. Start in the barn or in the field.

Humates; Derived from a variety of sources, naturally occurring, concentrated in powders, solution grade or dispersible granules. Available in economic supply. Augments soil carbon, effectively reduces annual application rates of synthetic or natural fertilizer inputs and herbicide by increasing the uptake of nutrients or systemic adjuvants. Reduces leaching of primary and secondary nutrients including Phosphorus and Nitrogen. Increases water holding capacity and assists in the creation of stabile soil architecture for beneficial microbes. Start in the barn, or in the field.

Rock Dust Minerals; Locally or regionally available in economic supply. The BEST materials rebuild demineralized soils with freshly crushed silica rich broad elemental spectrum rock dusts. Increases availability of major and minor nutrients, adds stabile reserves of Calcium, Magnesium, Potassium, Phosphorus Iron and trace elements in a silicate matrix which will not readily leach but are immediately plant available through weathering, action of organic acids and microbial populations. Adds needed anions and cations, reduces the dependency on soluble fertilizers. Used in coordination with proper manure management, in the presence of organic carbon, and microbes, will revitalize worn out soils and provide a foundation for sustainable biologic management over time. Cost effective, efficient and local. Start in the barn, or in the field.

Carbon, Minerals and Microbes; The Foundation of Biologic Management. The effective integration of carbon, minerals and microbes in farm and forestry management provides solutions to nutrient loss and helps mitigate point source pollution of primary nutrients such as Phosphorus and Nitrogen. Proper application and flexible use of primary materials ensures lasting results in the field. Blend in the barn, pre-formulated, or in the field.

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