

Soil Health Optimization

Title: Bourbon County Biochar: Commercial Agricultural Technical Data Sheet

Target: Commercial Farmers, Bulk Growers, and Crop Consultants

- **Overview:** Bourbon County Biochar is a highly stable, porous form of pure carbon engineered to rebuild depleted soils, optimize moisture retention, and boost microbial biology permanently.
 - **Physical Properties:**
 - **Fixed Carbon:** >82%
 - **Surface Area:** 350+ m² per gram (acting as a permanent nutrient sponge)
 - **Moisture Retention:** Holds up to six times its dry weight in water
 - **Commercial Advantages:**
 - **Drought Mitigation:** Prevents crop stress during dry spells by keeping moisture in the root zone.
 - **Input Efficiency:** Reduces synthetic fertilizer leaching by up to 30%, keeping nutrients where crops can reach them.
 - **Biological Catalyst:** Provides a permanent, structural habitat for beneficial soil microbes and mycorrhizal fungi.
 - **Application Guidance:** For optimal results, broadcast via standard mechanical spreader at a rate of 1 to 2 tons per acre, then disk or till into the top 4–6 inches of soil.
 - **Logistics & Ordering:** Available exclusively in 1-ton and 2-ton heavy-duty supersacks. Flatbed freight shipping quote required.
 - **Contact Commercial Sales:**
 -  **Phone:** 859.334.0704
 -  **Email:** sales@bourboncountybiochar.com
 -  **Location:** Bourbon County, Kentucky
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Equine Environmental Care

Title: Bourbon County Biochar: Premium Bulk Stall Optimization & Facility Guide

Target: Horse Boarding Operations, Large Stables, and Equine Facilities

- **Overview:** Formulated specifically for professional equine settings, our bulk biochar targets environmental hazards at the ground level—aggressively managing moisture, air quality, and stall waste.
 - **How it Works:** At a molecular level, the raw carbon matrix functions as a powerful molecular magnet, trapping liquids and gas molecules before they escape into the barn environment.
 - **Operational Benefits:**
 - **Ammonia Eradication:** Neutralizes hazardous ammonia vapor, protecting horses from respiratory inflammation and improving workspace conditions for barn staff.
 - **Hoof Health Protection:** Rapidly draws away pooling moisture to maintain dry stall floors, dramatically lowering the risk of thrush and hoof rot.
 - **Bedding Longevity:** Extends the life of wood shavings, straw, or pellet bedding by up to 100%, cutting inventory costs and disposal volume.
 - **The Manure Loop:** Speeds up the composting process of stall waste, binding nutrients to turn regular manure into a high-value, non-odorous asset for agricultural resale.
 - **Logistics & Ordering:** Sold in minimum 1-ton quantities. Sacks feature standard top lifting loops for immediate handling via tractor or skid steer. Flatbed shipping and local pickup options available.
 - **Contact Equine Accounts:**
 -  **Phone:** 859.334.0704
 -  **Email:** sales@bourboncountybiochar.com
 -  **Location:** Bourbon County, Kentucky
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Civil Contracting Projects

Title: Bourbon County Biochar: Capabilities Statement & Infrastructure Specs

Target: Civil Contractors, Commercial Distilleries, and Municipal Buyers

- **Overview:** Engineered for heavy civil engineering, industrial water treatment, and municipal stormwater compliance. Bourbon County Biochar provides a robust, carbon-negative solution for structural and environmental projects.
- **Core Applications:**
 - **Eco-Cement & Concrete Integration:** Blends seamlessly into concrete and asphalt formulations at a 1% to 5% replacement rate, trapping atmospheric carbon permanently without compromising structural load-bearing capacity.
 - **Advanced Erosion Control:** Serves as a highly stable, heavy filtration medium for geotextile filter socks to hold shifting soil, prevent slope failure, and accelerate vegetation growth.
 - **Stormwater & Distillery Runoff Remediation:** Strips heavy metals, chemical byproducts, organic compounds, and suspended solids from heavy industrial or municipal site drainage.
- **Procurement & Corporate Details:**
 - **Fulfillment:** Bulk 1-Ton and 2-Ton woven totes. Truckload (TL) and Less-Than-Truckload (LTL) flatbed freight available nationwide.
 - **Compliance:** Meets strict environmental benchmarks for green building mandates and government carbon-sequestration projects.
- **B2B Procurement Contact:**
 -  **Phone:** 859.334.0704
 -  **Email:** sales@bourboncountybiochar.com
 -  **Location:** Bourbon County, Kentucky