

BARNHARDT MANUFACTURING COMPANY embraces the rapidly changing Global Business Environment and our Responsibility to continue to adopt Business Practices that support Best Practice Sustainability efforts in every facet of our business; owing accountability to future generations.

Accomplishments in Reduction of Environmental Footprint

- Reduction in Therms used per Production Pound of Purified Cotton by 25%
- Reduction in Gallons of Water used per Production Pound of Purified Cotton of 182%.
- Reduction of KWH per Production Pound of Purified Cotton by 22%.
- Change to more Environmentally-Friendly Peroxide Purifying Process in mid-1990.

Future Plans Supporting SUSTAINABILITY

- Single-stage purifying
 - Reduction in energy, water and chemicals resulting in lower costs
- Installation of water recycling facilities resulting in a reduction of 40,000,000 gallons of water per year. Being installed in mid-2008.

Why Cotton?

- Renewable, Sustainable, Biodegradable & Eco-Friendly
- Cotton is a drought tolerant crop; less than 33% of the US cotton crop is irrigated and 85% of the cotton grown in the US is low irrigation. Requires less water than wheat, rice and many other agricultural crops.
- Treatment with Pesticides has been reduced by 50% since 1985. (1.2 pounds of insecticide and 2.1 pounds of herbicide applied per acre or 0.09 ounces of total pesticides applied per pound of cotton produced)
- Cotton actually reduces greenhouse gases as it is over 40% carbon.
- Cotton can be considered to be Net Energy Positive as only 36 gallons of diesel are required per acre which is offset by the yield of cotton seed per acre which can be used for bio-diesel fuel.
- Textile mill by-products are recyclable adding to the sustainability chain.
- Market demand for cotton products provides evidence that cotton is the superior natural fiber of the world.
 - **Annual carbon sequestered from the world cotton supply that goes into textiles is equivalent to taking the green house gas emissions of 7.25 million passenger vehicles off the highway**
- Cotton plants in a typical field actually extract 10,000 pounds of CO₂ per acre and that same acre provides 7,000 pounds of oxygen back into the atmosphere.
 - In 2005, according to Cotton Incorporated, global fiber production reached 55 B pounds. As a result, 80 B pounds of CO₂ were removed from the atmosphere to form the cellulose in the fiber.
- Cotton production, driven by consumer demand is expected to continue to grow significantly for the foreseeable future.

