

Biomassive.™

25 tons per acre is now attainable.

With biomass, yield is king. And Freedom™ Giant Miscanthus has just changed all the known numbers. Plug 25 tons per acre into your current figures and compare it to other biomass crops.

Freedom™ is the tallest, highest-yielding, most vigorous biomass crop available today. At full maturity, it produces yields up to 25 tons per acre with superior height, standability, and vigor. It is heat and drought tolerant, and tolerates poor soils. It is truly biomassive.

Freedom™ Giant Miscanthus is the result of extensive breeding and research among biomass crops at Mississippi State University. This work has produced the highest-yielding “energy grass”

seen to date. It grows to heights over 12 ft. with superior standability. Whether your end-market is cellulosic ethanol, power plant feedstock, or cellulose pellets, this plant changes everything

you know.

After more than a decade of careful selection and propagation, registered and certified material is now ready for delivery for Spring of 2010. SunBelt Biofuels is the exclusive supplier of Freedom™

Giant Miscanthus. We

offer a full grower's assistance program, including planting supervision, growing assistance and quality monitoring. Get in touch with us to talk about a growing program that suits your biomass needs. We'll show you biomassive potential.



Mississippi State University has been researching, breeding and selecting superior traits in Giant miscanthus for over 12 years. Freedom Giant Miscanthus™ is now commercially available through SunBelt Biofuels.



Freedom
Giant Miscanthus™

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Freedom Giant Miscanthus Fact Sheet

Giant miscanthus is a tall perennial grass that grows unusually well in temperate climates. It has been used as an energy crop across Europe for two decades. Freedom Giant Miscanthus was developed by Mississippi State University as a superior variety for the United States.

One Acre of Freedom Giant Miscanthus:

- can produce 25 tons of biomass
- can produce over 3,000 gallons of ethanol
- can provide 375 million BTU of energy to a power plant
- can power two US households for a year
- at current prices, produces \$2,400 of income
- removes 43 tons of CO² from the atmosphere

Quick Facts

- Herbaceous: dies back to ground at end of the season (not woody)
- Deciduous: goes dormant at end of growing season
- Perennial: grows back yearly
- Grows 14-foot high or more
- Produces 25 tons per acre at full maturity
- Plant dies back in the field before harvest, leaving bamboo-like dry stems as harvestable biomass
- Stands re-grow each spring and can last 15+ years.
- Multiplied by rhizomes, underground stems that can produce new plants.
- Low input requirements
- There are about 37,000 acres (15,000 hectares) of miscanthus in the U.K.

Propagation

Freedom Giant Miscanthus is a sterile, non-seed producing plant. The plant is propagated by planting rhizomes in the spring/early summer.

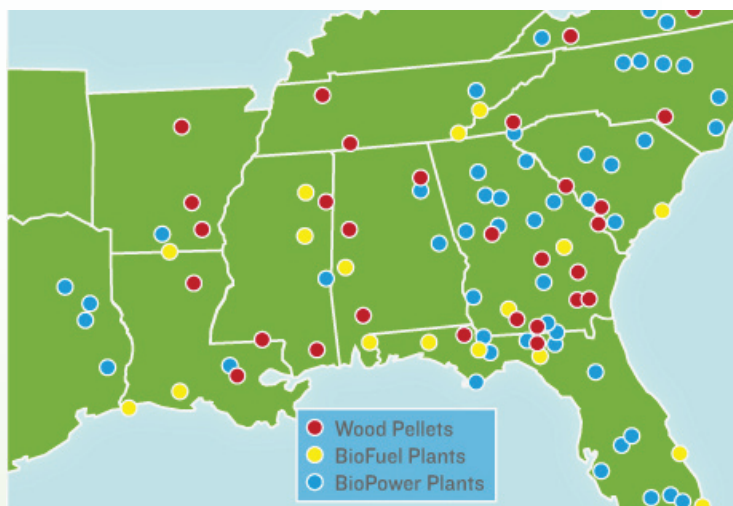
Harvest

After leaves die off and fall, woody stalks are left for harvest. This is usually in early to mid-winter. Fallen leaves return carbon, nitrogen to soil.

Miscanthus Advantages

- As a perennial, it does not need to be replanted. This eliminates the cost and environmental impact of annual sowing.
- It adds significant organic matter to the soil. Since no tillage is needed, there is less soil compaction & erosion.
- A low input crop, it recycles nutrients back to its roots at the end of the growing season. Once established, miscanthus requires little or no fertilizer or weed control.

Demand for Miscanthus



● As a Feedstock for Cellulosic Ethanol

As a biofuel feedstock, miscanthus produces more ethanol per acre than corn or switchgrass.

● As a Feedstock for Biopower Plants

As a bioenergy source, power plants burn cellulosic material, either raw or pelletized, to produce power.

● As a Pelletized Fuel Source

Pellets are currently being used for residential and commercial heating as well as for power plants. Europe is a huge importer.