



Think BIG

Reach new heights with a new name in seed

BLADETM
ENERGY CROPS

Your Future in Bioenergy



Visit us online at
www.BladeEnergy.com

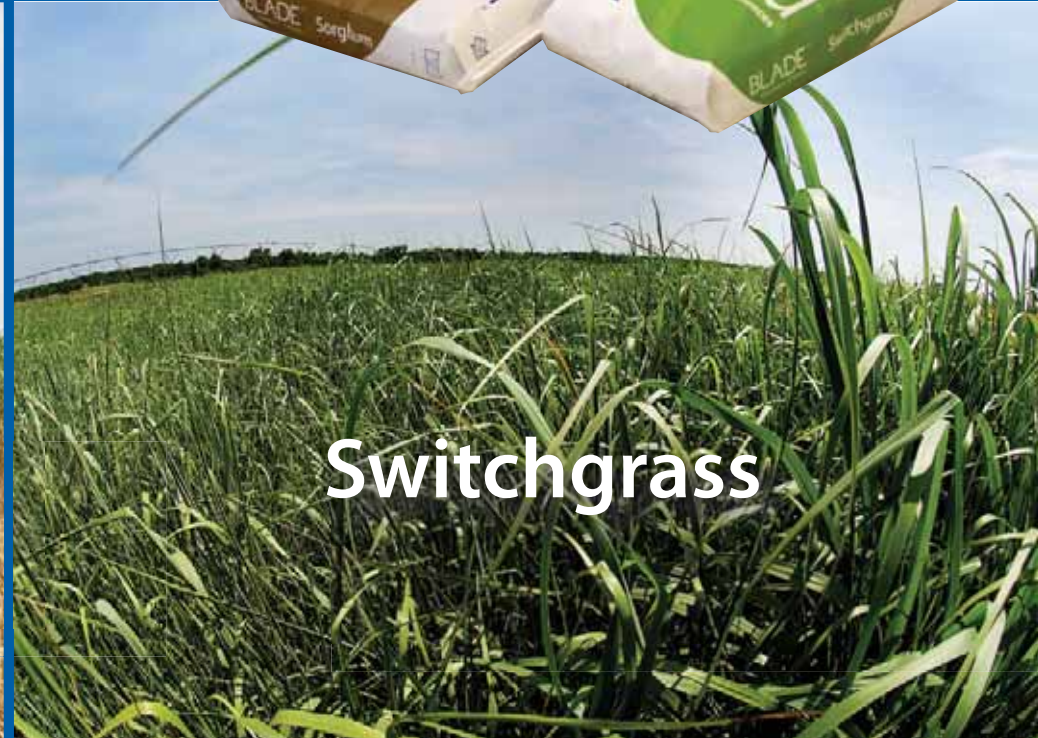
Blade Energy Crops™ is a new seed brand for a new kind of seed. Our crops—called dedicated energy crops—were selected for use in the production of next-generation biofuels and biopower. For 2009 plantings, we've launched the first switchgrass cultivars—EG 1101 and EG 1102—developed for higher biomass yields as well as some tried-and-true performers for northern latitudes. We also have new high-biomass types of sorghum—ES 5200 and ES 5201—that provide a generation's worth of biomass yield improvement in a single step.

Backed by genomics-based plant breeding, trait development and compositional analysis, Blade represents the latest technology in energy crops. For agricultural producers, that means high yield potential, greater yield stability and low inputs. Downstream, it means easier processing, and ultimately, more energy per ton of biomass.

These product descriptions are intended to help agricultural producers identify products for trialing as the market for biomass develops. If you are an innovative, step-ahead-of-the-rest grower, or just looking for alternative uses for underperforming land, now's the time to book seed from Blade Energy Crops. Your future in bioenergy starts today.



High-Biomass Sorghum



Switchgrass

High-Biomass Sorghum

The information in this brochure represents data collected from specific company, university or U.S. government trials and is not a guarantee of future performance. Your results may vary, sometimes considerably, due to weather, disease pressure, environmental stress, soil type, and/or individual farming practices, among others factors. Growers should evaluate data from multiple locations and years whenever possible.

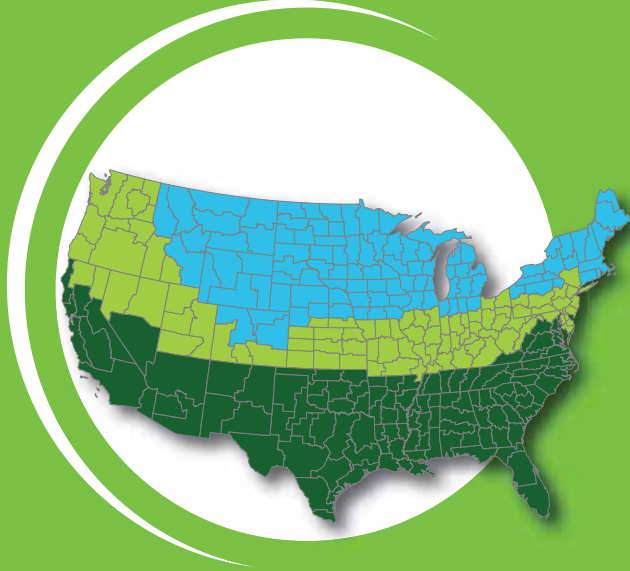
CERES, INC. WARRANTS THAT THE SEED IT SELLS WILL CONFORM TO THE LABEL DESCRIPTION ON THE BAG AND/OR BAG TAGS WITHIN REASONABLE TOLERANCES. CERES MAKES NO OTHER EXPRESS WARRANTY ON THE SEED IT SELLS. ALL OTHER WARRANTIES ARE EXPRESSLY DISCLAIMED, INCLUDING ALL IMPLIED WARRANTIES, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT PERMITTED BY FEDERAL AND STATE LAW, ALL SEED WILL BE SOLD "AS IS." CERES DOES NOT GUARANTEE CROP YIELD OR PERFORMANCE.

Switchgrass and sorghum products include cultivars developed in collaboration with The Samuel Roberts Noble Foundation and Texas AgriLife Research, the Texas A&M University System, respectively.

Maxim and Apron are registered trademarks of Syngenta.

Name	Hybrid Type	Traits	Range	Standard Seed Treatments	Seeds per Lb.	Seeds per Acre (approximate)			Target Uses	Comments
						Marginal	Good Dry-land	Irrigated		
ES 5201	Sorghum	Skyscraper™ high biomass	Most sorghum growing areas	Maxim® Apron®	18,000 to 20,000	75,000	100,000	120,000	Biochemical Thermo-chemical Cofiring/ Cogeneration Anaerobic Digestion	High yield potential in single-cut harvest systems; photo-period sensitive, non-heading hybrid. Medium stem thickness.
ES 5200	Sorghum	Skyscraper™ high biomass	Most sorghum growing areas	Maxim® Apron®	11,000 to 13,000	75,000	100,000	120,000	Biochemical Thermo-chemical Cofiring/ Cogeneration Anaerobic Digestion	High yield potential in single-cut harvest systems; photo-period sensitive, non-heading hybrid. Thick-stemmed.
ES 5150	Sorghum-Sudan		Most sorghum growing areas	Maxim® Apron®	25,000 to 28,000	75,000	100,000	120,000	Biochemical Thermo-chemical Cofiring/ Cogeneration Anaerobic Digestion	Photo-period sensitive, non-heading hybrid; thick-stemmed; suited to multi-cut harvest systems.
ES 5140	Sorghum-Sudan		Most sorghum growing areas	Maxim® Apron®	18,000 to 20,000	75,000	100,000	120,000	Biochemical Thermo-chemical Cofiring/ Cogeneration Anaerobic Digestion	Photo-period sensitive, non-heading hybrid; thick-stemmed; suited to multi-cut harvest systems.

Switchgrass



Northern Range

Midrange

Southern Range



Name	Ecotype	Range	Target Uses	Comments
EG 1101	Lowland	Southern Range and lower limits of Midrange; about 20-25" min. rainfall during the growing season, or irrigation.	Biochemical Thermochemical Cofiring/ Cogeneration Digestion	Improved Alamo type; bred for greater biomass yields and better vigor/establishment. High biofuel conversion potential; has shown superior conversion characteristics for biochemical and thermochemical processes. Moderate resistance to rust (<i>Puccinia spp.</i>) observed. May work well in a 2-cut system in high rainfall areas.
EG 1102	Lowland	Southern to Midrange; does well in northern limits of Southern Range; about 20-25" min. rainfall during the growing season, or irrigation.	Biochemical Thermochemical Cofiring/ Cogeneration Digestion	Improved Kanlow type; adapted farther north than EG 1101. Bred for high-biomass yields and better vigor/establishment; high biofuel conversion potential; has shown superior conversion characteristics for biochemical and thermochemical processes. Moderate resistance to rust (<i>Puccinia spp.</i>) observed.
Blackwell	Upland	Midrange; about 20-25" min. rainfall during the growing season, or irrigation.	Biochemical Thermochemical Cofiring/ Cogeneration Digestion	Late-maturing and productive; rust resistance observed; suited to drier areas.
Trailblazer	Upland	Midrange and lower limits of Northern Range; about 20-25" min. rainfall during the growing season, or irrigation.	Biochemical Thermochemical Cofiring/ Cogeneration Digestion	Pathfinder type with improved digestibility; late-maturing, vigorous and winter hardy.
Sunburst	Upland	Northern Range; about 20-25" min. rainfall during the growing season, or irrigation.	Biochemical Thermochemical Cofiring/ Cogeneration Digestion	Selected for good seedling vigor; medium-to-high yield potential and winter hardy.



Visit us online at www.BladeEnergy.com

Blade Energy Crops ▪ Thousand Oaks, California ▪ College Station, Texas
Toll-free 877.498.SEED ▪ International +1.805.376.1208

info@bladeenergy.com

BLADE ENERGY CROPS is a brand of Ceres, Inc.