

2011

BLADE[®]
ENERGY CROPS



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Your Future in Bioenergy Starts Today



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Blade Energy Crops® is at the forefront of a new industry, with a new type of seed developed for biopower, advanced biofuels and other bioproducts.

Our flagship sorghum hybrids ES 5200 and ES 5201, with our Skyscraper® high-biomass trait, provide a flexible, quick-growing source of biomass. For 2011, we also have a new thin-stemmed, high-biomass type with improved dry-down ability. In switchgrass, our line-up now includes three improved varieties, EG 1101, EG 1102 and EG 2101, as well as some tried-and-true performers for areas with extreme winters. A low-maintenance perennial, switchgrass is often described as the ideal energy crop – the staple in the bioenergy cupboard.

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.

More than a seed brand

Blade works with companies throughout the bioenergy chain, from major utilities and biorefineries to conversion technology providers and equipment manufacturers. We provide test quantities of biomass, run cooperative trials and share composition and conversion data— a critical step for end users. We've even introduced growers to new downstream customers.

To get started in bioenergy, download our free crop management guides on our website, and sign-up for our mailing list, so we can find you when our bioenergy partners come looking for reliable producers. Blade customers may also be eligible for payments from the federal Biomass Crop Assistance Program (BCAP). Check with your local FSA office for program rules.



High-Biomass Sorghum



Switchgrass

Switchgrass



Northern Range



Midrange



Southern Range



Name	Ecotype	Range	Comments
EG 1101	Lowland	Southern Range and lower limits of Midrange; min. 20-25" rainfall or irrigation.	Improved Alamo type; 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. 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; min. 20-25" rainfall or irrigation.	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.
EG 2101	Upland	Midrange and lower limits of Northern Range in the Midwest & Mid-Atlantic region; min. 20-25" rainfall or irrigation.	Improved Cave-in-Rock type; bred for high biomass yields. More winter hardy than EG 1101 and EG 1102.
Blackwell	Upland	Midrange and lower limits of Northern Range; min. 20-25" rainfall or irrigation.	Late-maturing and productive; rust resistance observed; suited to drier areas.
Trailblazer	Upland	Midrange and lower limits of Northern Range; min. 20-25" rainfall or irrigation.	Pathfinder type with improved digestibility; late-maturing, vigorous and winter hardy.
Sunburst	Upland	Northern Range; min. 20-25" rainfall or irrigation.	Selected for good seedling vigor; medium-to-high yield potential and winter hardy.

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 other 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.

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Poncho is a registered trademark of Bayer.

Name	Hybrid Type	Traits	Range	Seed Treatments Available	Seeds per Lb.	Seeds per Acre (approximate)			Comments
						Marginal	Good Dry-land	Irrigated	
ES 5200	Sorghum	Skyscraper® high biomass	Most sorghum growing areas	Maxim® Apron® Concep® Poncho®	11,000 to 14,000	75,000	100,000	120,000	High yield potential in single-cut harvest systems; photo-period sensitive, non-heading hybrid. Thick-stemmed.
ES 5201	Sorghum	Skyscraper® high biomass	Most sorghum growing areas	Maxim® Apron® Concep® Poncho®	15,000 to 18,000	75,000	100,000	120,000	High yield potential in single-cut harvest systems; photo-period sensitive, non-heading hybrid. Thick-stemmed.
ES 5140	Sorghum-Sudan		Most sorghum growing areas	Maxim® Apron® Concep® Poncho®	18,000 to 20,000	75,000	100,000	120,000	Photo-period sensitive, non-heading hybrid; thick-stemmed; suited to multi-cut harvest systems.
ES 5150	Sorghum-Sudan		Most sorghum growing areas	Maxim® Apron® Concep® Poncho®	25,000 to 28,000	75,000	100,000	120,000	Photo-period sensitive, non-heading hybrid; thin-stemmed; suited to multi-cut harvest systems.
ES 5155	Sorghum-Sudan		Most sorghum growing areas	Maxim® Apron® Concep® Poncho®	20,000 to 24,000	75,000	100,000	120,000	Photo-period sensitive, non-heading hybrid; thin-stemmed; suited to multi-cut harvest systems.



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