



PRODUCT GUIDE

PRODUCT GUIDE

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INTRODUCING **AMERICAN ACRES**

American Acres is forage seed that delivers more from every acre. Our new line of superior hybrids is designed to carry your herd no matter where your operation is located.

Backed by decades of experience, our seed experts have hand-selected the best varieties available on the market, with a focus on forage quality, yield, disease and pest resistance, winter hardiness and drought tolerance. This Product Guide is designed to be a useful resource for the products we carry. We look forward to sharing our selections with you.

ALFALFA FORAGE PRODUCTS

			WS	BW	FW	VW	ANTH	PRR	APH
DORMANCY 3	BIG RED 3	A very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This fall dormancy 3 blend will persist well into 5 productive years.	1.8	HR	HR	R	HR	HR	HR
	ST120	An alfalfa blend developed for long rotation, high disease and pest resistance, and wide adaptability. It has excellent quality while still having excellent winter hardiness and drought tolerance. ST120 is suitable for variable soils and climates, and performs well under irrigation. ST120 is a blend of Multi-Foliolate, Creeping, and Ranger Alfalfa.	1.8	R	R	R	R	NR	NR
	OCTANE	Octane's dense, dark green canopy and 60% multifoliolate expression is a standout in any field. Octane is selected for high forage dry matter yield, high forage milk per acre, high NDF and disease resistance.	1.4	HR	HR	HR	HR	HR	HR
DORMANCY 4	BIG RED 4	A blend of very high yielding, winter-hardy alfalfa varieties with good forage quality. BIG RED 4 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This Fall Dormancy 4 blend will persist well into 5 plus years.	2.0	HR	R	R	HR	HR	HR
	A-100	Conventional alfalfa with exclusive blended varietal genetics. Well adapted to a wide range of agronomic conditions.	2.0	R	R	R	R	HR	R
	BARRICADE II SLT	An alfalfa variety well suited to areas with increased salinity pressures.	2.0	HR	HR	HR	HR	HR	NR
	DYNAMO	Dynamo's unparalleled combination of high yield and improved Relative Feed Quality (RFQ) will produce more milk per acre guaranteed, complimented by superior winterhardiness and outstanding disease resistance index scores, including Aphanomyces Race 1 and Race 2 resistance.	1.9	HR	HR	HR	HR	HR	HR
	423TQ RR	High quality Traffic Tested® alfalfa with Ultracut™ alfalfa disease package and Roundup Ready® technology	1.0	HR	HR	HR	HR	HR	HR
DORMANCY 5	SLINGSHOT	High-yielding, high-quality, excellent digestibility. Exclusive genetics. Top production across a wide range of agronomic conditions.	2.0	R	HR	HR	HR	HR	HR
DORMANCY 8	GOLD RUSH 835	Aggressive, high forage yielding, fall dormancy eight alfalfa. It expressed outstanding forage yields and performs well in saline soils. This variety is performing well in the states of California and Arizona.	N/A	HR	HR	HR	HR	HR	HR

NR = Not Rated
R = Resistant; HR = Highly Resistant; MR = Moderately Resistant

BIG RED 3 COATED ALFALFA

Big Red 3 is a blend of high yielding winter-hardy alfalfa varieties with good forage quality. Big Red 3 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This fall dormancy 3 blend will persist well into 5 productive years.



BIG RED 3 CHARACTERISTICS

Fall Dormancy	3.0
WSI	1.8
DRI	29/30
Cut Per Season	2-3

BIG RED 3 DISEASE AND PEST RESISTANCE

Bacterial Wilt Fusarium	HR
Verticillium Wilt	R
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Anthracnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	R
Spotted Alfalfa Aphid	R

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ALFALFA

FORAGE PRODUCTS

ST120

ALFALFA

ST120 is an alfalfa blend developed for long rotation, high disease and pest resistance, and wide adaptability. It has excellent quality while still having excellent winter hardiness and drought tolerance. ST120 is suitable for variable soils and climates, and performs well under irrigation. ST120 is a blend of Multi-Foliolate, Creeping, and Ranger Alfalfa.



ST120 CHARACTERISTICS

Fall Dormancy	3.0
WSI	1.8
Cut Per Season	3-4

ST120 DISEASE AND PEST RESISTANCE

Bacterial Wilt	R
Fusarium Wilt	R
Anthracnose	R
Phytophthora Root Rot	NR
Aphanomyces Root Rot (Race 1)	NR
Aphanomyces Root Rot (Race 2)	NR
Verticillium Root Rot	R

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OCTANE

ALFALFA

Supercharge your hay production with **Octane**, the high forage yielding leader that consistently produces more dry matter and milk per acre. Its stability and persistence deliver high performance year after year. Octane's dense, dark green canopy and 60% multifoliolate expression is a standout in any field. Octane is selected for high forage dry matter yield, high forage milk per acre, high NDF and disease resistance.



OCTANE CHARACTERISTICS

Fall Dormancy	3.0
WSI	1.4
DRI	35/35

OCTANE DISEASE AND PEST RESISTANCE

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	HR
Verticillium Root Rot	HR
Blue Alfalfa Aphid	R
Stem Nematode	HR

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ALFALFA

FORAGE PRODUCTS

BIG RED 4

ALFALFA

Big Red 4 is a blend of very high yielding, winter-hardy alfalfa varieties with good forage quality. Big Red 4 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This Fall Dormancy 4 blend will persist well into 5 plus years.



BIG RED 4 CHARACTERISTICS	
Fall Dormancy	4.0
WSI	2.0
DRI	28/30
Cut Per Season	4-5

BIG RED 4 DISEASE AND PEST RESISTANCE	
Bacterial Wilt Fusarium	HR
Verticillium Wilt	R
Fusarium Wilt	R
Phytophthora Root Rot	HR
Anthrachnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	R
Spotted Alfalfa Aphid	MR

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A-100

CONVENTIONAL ALFALFA

A-100 is a proven brand that has worked well across the Midwest for many years. Combining great stand persistence with high yield package, this alfalfa fits across a broad range of environments and is well suited for a 4-5 cut system.



A-100 CHARACTERISTICS	
Fall Dormancy	4.0
WSI	2.0
DRI	27/30
Forage Quality	Very Good
Persistence	Excellent
Leaf-type	Trifoliolate
Recovery After Cutting	Fast
Hay	Excellent
Haylage	Excellent
Pre-inoculated	Yes
Treated with Fungicide	Yes
Seeding Rate	12-20 lbs drilled

A-100 DISEASE AND PEST RESISTANCE	
Bacterial Wilt	HR
Fusarium Wilt	R
Anthrachnose	R
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	NR
Aphanomyces Root Rot (Race 2)	NR
Verticillium Root Rot	R
Pea Aphid	HR
Potato Leafhopper	NR

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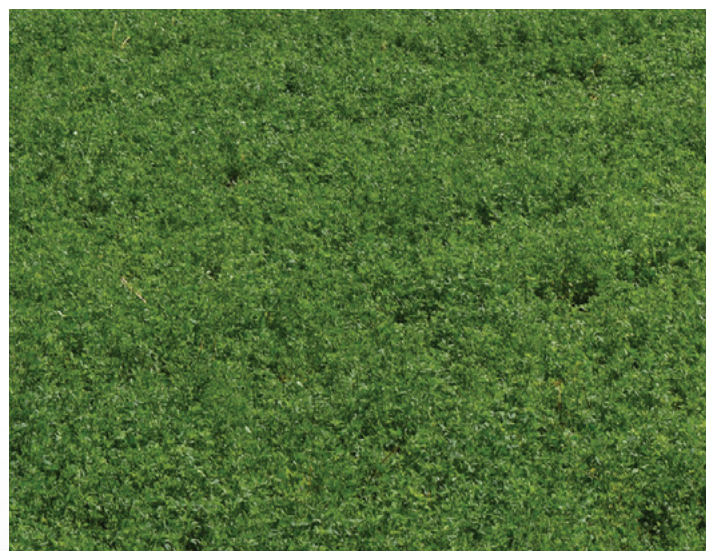
ALFALFA

FORAGE PRODUCTS

BARRICADE II SLT

ALFALFA

Barricade SLT is an alfalfa variety well suited to areas with increased salinity pressures. Selected from parents that endured repeated irrigation under a 100mM NaCl solution in the greenhouse, and endured field soils with >8 EC, Barricade SLT has demonstrated improved germination under saline conditions as well as improved forage production. This increased saline tolerance, when combined with high yield potential and an excellent disease and pest resistance package, gives Barricade SLT excellent overall performance and hardiness.



BARRICADE SLT CHARACTERISTICS

Fall Dormancy	4.0
WSI	2.0
DRI	35/35
Cut Per Season	4-5

BARRICADE SLT DISEASE AND PEST RESISTANCE

Bacterial Wilt Fusarium	HR
Verticillium Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Anthracnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	HR
Spotted Alfalfa Aphid	MR

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DYNAMO

ALFALFA

Dynamo delivers explosive forage quality and maximum tonnage in a fall dormancy class 4 variety. Its rapid regrowth is well suited for 3, 4 and 5 cut harvest management systems. High multifoliate leaf expression, improved crude protein content and exceptional feed value are table stakes for this top performer. Dynamo's unparalleled combination of high yield and improved Relative Feed Quality (RFQ) will produce more milk per acre guaranteed. Complimented by superior winterhardness and outstanding disease resistance index scores, including Aphanomyces Race 1 and Race 2 resistance, Dynamo will generate high-flying forage production and more milk.



DYNAMO CHARACTERISTICS

Fall Dormancy	4.0
WSI	1.9
DRI	34/35

DYNAMO DISEASE AND PEST RESISTANCE

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	R
Verticillium Root Rot	HR
Pea Aphid	R
Blue Aphid	R
Spotted Alfalfa Aphid	R
Stem Nematode	R
Northern Root Knot Nematode	MR

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ALFALFA

FORAGE PRODUCTS

423TQ RR ULTRACUT™

ALFALFA

High quality Traffic Tested® alfalfa with UltraCut™ alfalfa disease package with Roundup Ready™ technology. Top choice for heavy, compacted and saturated soils. The UltraCut™ alfalfa disease package helps you grow a healthy alfalfa crop even in fields susceptible to Anthracnose and Aphanomyces. Its protection can help deliver an advantage through improved agronomic performance and yield potential.



423TQ RR ULTRACUT™ CHARACTERISTICS	
Fall Dormancy	4.0
WSI	1.0
DRI	34/35
Forage Quality	Excellent
Persistence	Excellent
Recovery After Cutting	Very Fast

423TQ RR ULTRACUT™ DISEASE AND PEST RESISTANCE	
Bacterial Wilt	HR
Fusarium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot	HR
Verticillium Root Rot	HR
Pea Aphid	R
Spotted Aphid	R
Stem Nematode	R

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SLINGSHOT

ALFALFA

Slingshot is a high yielding FD 5 alfalfa with a tough winter dormancy. With its early dormancy break in the spring and fast re-growth after cutting, Slingshot's ability to handle an aggressive multi-cut regiment takes this alfalfa to the next level. This alfalfa also has a high expression of multi-foliates giving it 4-5 leaflets per leaf.



SLINGSHOT CHARACTERISTICS	
Fall Dormancy	5.2
WSI	2.0
DRI	34/35
Cut Per Season	4-5

SLINGSHOT DISEASE AND PEST RESISTANCE	
Bacterial Wilt	R
Fusarium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	NR
Verticillium Root Rot	HR
Pea Aphid	HR
Potato Leafhopper	NR

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ALFALFA

FORAGE PRODUCTS

GOLD RUSH 835

ALFALFA

Gold Rush 835 is an aggressive, high forage yielding, fall dormancy eight alfalfa. It expressed outstanding forage yields and performs well in saline soils. This variety is performing well in the states of California and Arizona.



GOLD RUSH 835 CHARACTERISTICS

Fall Dormancy	8.0
WSI	N/A
DRI	30/30
Forage Quality	Excellent
Persistence	Excellent
Recovery After Cutting	Very Fast

GOLD RUSH 835 DISEASE AND PEST RESISTANCE

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthrachnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot	HR
Verticillium Root Rot	HR

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FALL DORMANCY (FD) AND WINTER SURVIVABILITY INDEX (WSI)

Over the last few decades, alfalfa breeders have been able to differentiate the correlation to some extent the fall dormancy and winter survivability of alfalfas. This has led to very winter hardy alfalfas that are able to be a higher fall dormancy, and more productive alfalfa.

Fall Dormancy is a measurement of the overall plant height 25 days after its fall cutting. Usually, alfalfas with a higher fall dormancy have more fall growth, earlier spring growth, and result in higher alfalfa yields. The fall dormancy numerical system has a range from 1-11, with a 1 being the most dormant and a 11 being the least dormant or non-dormant.

Winter Survivability is the actual survival of those plants, when measured in the spring as the plants break dormancy. This rating is on a 1-6 scale, with the lower numbers having the stronger winter survivability.



WARM SEASON FORAGE OVERVIEW

QUALITY STAR SEED SORGHUM LINE

TYPE	PEARL MILLET	HYBRID SUDAN	SORGHUM SUDAN	FORAGE SORGHUM
DESCRIPTION	Low prussic acid levels, very leafy and palatable grazing choice. Slow re-growth and lower yield potential.	Fine stemmed, high quality, rapid re-growth potential. Poor leaf retention after heading.	Yields between sudan and forage sorghum, very flexible forage type.	Highest yielding for large volume feed production.
MOST POPULAR USES	Premium grazing choice.	High quality rotational grazing or multi-cut premium leafy hay.	Flex forage choice for grazing, multi-cut hay, or green chop.	Baled feed and silage production.

POPULAR TRAITS

BROWN MID-RIB (BMR)

Promote better animal performance by increased palatability and digestibility because of its low lignin levels.

PHOTOPERIOD SENSITIVE (PS)

Plant stays in vegetative growth period that is controlled by the length of day.

BRACHITIC DWARF (BD)

The shortening of the internodes allows more leaves per plant, which results in greater feed quality and resistance to lodging.

MALE STERILE (MS)

The absence of pollen grain or the incapability of the plant to produce viable pollen grain results in sugar accumulation in the stock.

PREMIUM FORAGES

PRODUCTS AVAILABLE THROUGH OUR DEALER NETWORK

			CONV. HYBRID	BROWN MID-RIB	PHOTOPERIOD SENSITIVE	BRACHYTIC DWARF	SUGGESTED USES
HYBRID SUDAN	BLUE RIBBON 3D	Premium Quality Sudan — very dry and quick to cure for baling; on average three days to cure after cutting.					Fine stemmed for high value markets; breeding stock, or show cattle.
	HAY N GRAZE	Very tough hybrid that performs well with a large footprint. Hay N Graze is a medium maturity conventional hybrid.					
SORGHUM X SUDAN	EXCEL II	High Performing Tonnage — consistent performer over a wide range of environmental conditions.					Very flexible feed uses including single cut baled feed, green chop, multi-cut OR grazing feed choices.
	NUTRIMAXX BMR	Long season BMR sorghum sudan with superior drought tolerance; high yielding, very aggressive tillering and fast recovery for multi-cut and intense grazing.					
	DRYLANDER	Photo period sensitivity makes this a good choice for upland acres, continuing to produce feed following periods of drought and severe heat.					
	BRUISER	Dwarf variety but is high yielding with plentiful moisture and delivers very rapid re-growth for intensive grazing or planned multiple cuts.					
	1ST CHOICE BMR	This hybrid has a shorter stature with a high leaf to stem ratio, this coupled with the BMR package makes it one of the most palatable in the line-up.					
FORAGE SORGHUM	MAGNUM	A conventional hybrid produces sweet and palatable baled feed and performs over a wide range of environmental conditions. Special order available with 80% LDP eligibility. Can be ordered male sterile.					High yielding baled feed production.
	MAGNUM ULTRA BMR	BMR Market Leader — delivers more TDN than conventional hybrids. Male sterile or special order available with 80% LDP eligibility.					High quality baled feed OR non-grain producing silage.
	PACKER HGY	100% LDP heavy grain production. Compare and use as conventional alternative to NK300 or FS5.					Conventional silage with high grain yield.
	BRUTIS 2.0	A BMR hybrid forage sorghum for high production silage.					A BMR hybrid Forage Sorghum for High Production Silage
	QUICK CHOP	Good disease resistance. 90-Day Grain. One-third less water compared to corn.					Short season silage. Good winter grazing. Great after wheat harvest.
PEARL MILLET	ALL STAR HYBRID PEARL MILLET	Tall and leafy, reaching pre-boot between 60 and 75 days. Tillers profusely with very fine stems for excellent quality hay. Does not produce prussic acid.					Premium market forage or grazing for horses and show cattle.
	ALL STAR BMR PEARL MILLET	Shorter Brachytic Dwarf hybrid pearl millet that produces high yields. It typically will reach boot stage in around 60 days. This high leaf mass assures high concentrations of protein and TDN values.					

Concept Herbicide Safener and Insecticide Treatment is Available on Most Products

SORGHUM FORAGES

PRODUCT SELECTION GUIDE

BALED FEED

LACTATING COWS & GROWING ANIMALS		DRY COWS OR MAINTENANCE		HORSES & SPECIALTY LIVESTOCK	
SINGLE CUT	MULTI-CUT	SINGLE CUT	MULTI-CUT	SINGLE CUT	MULTI-CUT
Magnum Ultra, Drylander, All Star BMR Pearl Millet	Bruiser, Blue Ribbon 3D, NutriMaxx BMR, Drylander	Magnum, All Star BMR Pearl Millet	Excel II	All Star Hybrid Pearl Millet, All Star BMR Pearl Millet	

GRAZING PASTURE

BEEF CATTLE LIVESTOCK			HORSES & SPECIALTY LIVESTOCK
CONTINUOUS SUMMER	ROTATIONAL	STANDING WINTER	ROTATIONAL OR CONTINUOUS
All Star Hybrid Pearl Millet, All Star BMR Pearl Millet	Bruiser, Blue Ribbon 3D	Magnum Ultra (Sterile)	All Star Hybrid Pearl Millet, All Star BMR Pearl Millet

SILAGE

LACTATING COWS & GROWING ANIMALS		DRY COWS OR MAINTENANCE	
WITH GRAIN	NO GRAIN	WITH GRAIN	NO GRAIN
Brutis, Packer HGY, Quick Chop	Magnum Ultra (Sterile)	Packer HGY, Magnum LDP, Quick Chop	Magnum (Sterile)



BALED FEED HARVESTING TIPS

When planning to harvest baled feed, it's best to harvest it around 48 inches and when the plant has reached the boot stage of maturity. Cut the feed down to 6-8 inches leaving three nodes for regrowth if desired. This added height will also help reduce the risk of nitrate poisoning. Using wide windrows will aid in drying, along with aggressive crimping.

SILAGE HARVESTING

The best stage of growth to harvest grain producing Forage Sorghums is at the soft dough stage. Finding the optimal timing to harvest male sterile, or non-grain producing hybrids, can be more challenging. It is recommended to harvest male sterile hybrids when the whole plant moisture has dropped to around 60-70 percent.

GRAZING TIPS

Rotational grazing is encouraged. Do not begin grazing until growth exceeds 20-24 inches or more. Remove when leaves have been removed but before stalks are consumed. Return to grazing only when growth exceeds 18 inches; this gives best animal performance, best growth, and reduces prussic acid and nitrate risks.



SORGHUM FORAGES

PRODUCT SELECTION GUIDE

MANAGING PRUSSIC ACID & NITRATES WITH SORGHUM FORAGES

Prussic acid occurs when a compound in the leaf epidermis combines with a compound in the leaf mesophyll cells to release prussic acid (cyanide).

Crushing, chewing, or freezing can burst cells and allow these compounds to come in contact with each other; **do not graze during frost risk.**

Prussic acid is most concentrated in new re-growth therefore, sorghum forages **should not be grazed until more than 18" tall.**

Prussic acid is not generally a concern in well-cured hay, silage that has been stored more than 30 days, or in foliage that has been frosted and dried out.

Pearl Millet is the forage choice when prussic acid is a major concern.

Toxic levels of **nitrate** can develop in sorghum forages, especially when excessive nitrogen combined with drought conditions occur at or near the time of harvest. High levels of nitrate in sorghum forage is dangerous and can be fatal to livestock if not managed properly. To prevent and manage nitrate concerns, follow these general guidelines...

- Wait 7 to 10 days after a drought breaking rain before harvesting; test before harvesting during extended periods of stress.
- Balanced fertility reduces risks for nitrate problems. Split applications of N on multi-cuts is a constructive management practice, half at planting, and the rest after each hay harvest.

GUIDELINES FOR ROTATIONAL STOCKING SORGHUM FORAGE

The nutritional requirements of the livestock being grazed should be considered when deciding when to end grazing. The closer a pasture is grazed, the lower forage quality will be toward the end of that particular grazing cycle. Greater residual heights may be desired for animals with higher nutritional requirements (for example: stocker cattle vs. cows and calves).

	BEGIN GRAZING	END GRAZING	RETURN TO GRAZING
Forage Sorghum & Sorghum Sudan	20-24 inches	8-12 inches	Regrowth >18 inches



SUDANGRASS & FORAGE

SORGHUM PRODUCTS

BLUE RIBBON 3D

BMR HYBRID SUDANGRASS

Blue Ribbon 3D is a premium quality sudan forage with the dry stalk gene and quickness to cure for baling. This hybrid produces a fine stemmed sudan forage suitable for grazing or baling. With excellent regrowth this sudangrass makes for exceptional multi-cut feed. In addition, the natural genetics of this plant make it prussic acid free, making it a safer grazing option.



BLUE RIBBON 3D CHARACTERISTICS

Plant Height	5-6 Feet
Grain	N/A
Days to Pollination	60-75
Typical Seeds / lb	22,500
Dryland Seeding Rate	13-19 lbs drilled
Irrigated Seeding Rate	22-32 lbs drilled
Advanced Genetics	Brown Mid Rib (BMR)

BLUE RIBBON 3D PRODUCT INFORMATION

Hay	Excellent
Silage	Good
Continuous Grazing	Very Good
Rotational Grazing	Excellent
Palatability	Excellent

HAY N GRAZE

CONVENTIONAL SORGHUM SUDANGRASS

Hay N Graze is a very tough hybrid that performs well with a large footprint. Hay N Graze is a medium maturity conventional hybrid, that has quick early season growth. This quick growth makes it one of our most drought hardy hybrids, and the fastest out of the ground.



HAY N GRAZE CHARACTERISTICS

Plant Height	6-8 Feet
Grain	Yes
Days to Pollination	60-70
Typical Seeds / lb	19,000
Dryland Seeding Rate	15-24 lbs drilled
Irrigated Seeding Rate	24-40 lbs drilled
Advanced Genetics	Conventional Hybrid

HAY N GRAZE PRODUCT INFORMATION

Hay	Very Good
Silage	Good
Continuous Grazing	Very Good
Rotational Grazing	Very Good
Palatability	Good

SUDANGRASS & FORAGE

SORGHUM PRODUCTS

EXCEL II

CONVENTIONAL SORGHUM SUDANGRASS

Excel II is a hybrid sorghum sudangrass that produces high-quality forage and has a quick regrowth. This variety produces tons of palatable forage. Excel II is a multicut hybrid that will perform over a wide range of environmental conditions. We have multiple site years of data on this hybrid, and it is consistently at the top in tonnage, over multiple years and locations.



EXCEL II CHARACTERISTICS	
Plant Height	6-9 Feet
Grain	Yes
Days to Pollination	90-95
Typical Seeds / lb	19,000
Dryland Seeding Rate	13-24 lbs drilled
Irrigated Seeding Rate	24-40 lbs drilled
Advanced Genetics	Conventional Hybrid

EXCEL II PRODUCT INFORMATION	
Hay	Very Good
Silage	Good
Continuous Grazing	Very Good
Rotational Grazing	Very Good
Palatability	Very Good

NUTRIMAXX BMR

LATE MATURING BMR SORGHUM SUDAN

Nutrimaxx BMR is a full season sorghum sudan alternative to Photoperiod Sensitive (PS) genetics. Nutrimaxx BMR hybrid features include a very high green leaf retention, aggressive tillering, re-growth and recovery, all packaged with excellent drought tolerance. This variety has a wide harvest window and produces full season forage.



NUTRIMAXX BMR CHARACTERISTICS	
Plant Height	7-9 Feet
Grain	Yes
Days to Pollination	85-90
Typical Seeds / lb	17,000
Dryland Seeding Rate	13-24 lbs drilled
Irrigated Seeding Rate	22-32 lbs drilled
Advanced Genetics	Brown Mid Rib (BMR)

NUTRIMAXX BMR PRODUCT INFORMATION	
Hay	Excellent
Silage	Good
Continuous Grazing	Excellent
Rotational Grazing	Excellent
Palatability	Excellent

SUDANGRASS & FORAGE

SORGHUM PRODUCTS

DRYLANDER

PHOTOPERIOD SENSITIVE (PS) BMR SORGHUM
FOR UPLAND ACRES AND COVER CROPPING MIXES

Daylight rather than environmental condition triggers **Drylander** to switch from vegetative to the reproductive stage. This means environmental extremes have less impact on Drylander with better recovery and resumed vegetative growth after periods of drought and heat stress.



DRYLANDER CHARACTERISTICS	
Plant Height	8-9 Feet
Grain	No
Days to Pollination	Varies by Day Length; <12.5 hours daylight repro.
Typical Seeds / lb	17,000
Dryland Seeding Rate	13-24 lbs drilled
Irrigated Seeding Rate	22-32 lbs drilled
Advanced Genetics	Brown Mid Rib (BMR) Photoperiod Sensitive (PS)

DRYLANDER PRODUCT INFORMATION	
Hay	Excellent
Silage	N/A
Continuous Grazing	Excellent
Rotational Grazing	Excellent
Palatability	Excellent

BRUISER

BRACHYTTIC DWARF (BD) BMR SORGHUM SUDAN

Bruiser is a brachytic dwarf BMR sorghum sudan that overcomes many of the difficulties of grazing or haying older tall varieties. Brachytic Dwarf means a hybrid that has shortened internodes but additional leaves, so quality is enhanced without sacrificing yield. BRUISER has excellent grazing qualities with rapid and abundant regrowth after grazing or swathing. The BMR genetics coupled with the shortened internodes, makes this hybrid very palatable and nutritious, while at the same time leaving foliage accessible to livestock.



BRUISER CHARACTERISTICS	
Plant Height	5-6 Feet
Grain	Yes
Days to Pollination	70-85
Typical Seeds / lb	14,000
Dryland Seeding Rate	13-24 lbs drilled
Irrigated Seeding Rate	22-32 lbs drilled
Advanced Genetics	Brown Mid Rib (BMR) Brachytic Dwarf (BD)

BRUISER PRODUCT INFORMATION	
Hay	Excellent
Silage	Good
Continuous Grazing	Excellent
Rotational Grazing	Excellent
Palatability	Excellent

SUDANGRASS & FORAGE

SORGHUM PRODUCTS

1ST CHOICE BMR

HIGHLY PALATABLE BMR

1st Choice BMR offers tremendous flexibility to producers. Multi-purpose forage with excellent regrowth and recovery. Exceptional palatability improves livestock utilization and weight gains. Livestock's #1 choice in competitive grazing trials. 1st Choice's genetic short stature makes it a great choice for either grazing, haying or silage. This added genetic dwarfism gives it an advantageous leaf to stem ration contributing to its palatability and feed value.



1ST CHOICE CHARACTERISTICS

Plant Height	6-7 Feet
Grain	Yes
Days to Pollination	70
Typical Seeds / lb	16,000
Dryland Seeding Rate	8-10 lbs drilled
Irrigated Seeding Rate	15-18 lbs drilled
Advanced Genetics	Brown Mid-Rib (BMR)

1ST CHOICE PRODUCT INFORMATION

Hay	Excellent
Silage	Excellent
Continuous Grazing	Excellent
Rotational Grazing	Excellent
Palatability	Excellent

MAGNUM

CONVENTIONAL SINGLE CUT HYBRID

Magnum has been a standout forage sorghum, producing outstanding tonnage as well as quality feed. Magnum can be ordered as a male sterile conventional, single cut hybrid that will perform over a wide range of environmental conditions.



MAGNUM CHARACTERISTICS

Plant Height	7-9 feet
Grain	Yes*
Days to 50% Anthesis	80
Typical Seeds / lb	15,500
Dryland Seeding Rate	15-20 lbs drilled
Irrigated Seeding Rate	20-24 lbs drilled
Advanced Genetics	Conventional Hybrid

*Can be ordered sterile

MAGNUM PRODUCT INFORMATION

Hay	Very Good
Silage	Very Good
Continuous Grazing	Good
Rotational Grazing	Good
Palatability	Very Good

SUDANGRASS & FORAGE

SORGHUM PRODUCTS

MAGNUM ULTRA BMR

SINGLE CUT BALED FEED OR PREMIUM QUALITY SILAGE

Magnum Ultra is a single cut forage sorghum hybrid with the BMR trait, leading to exceptional feed quality and high tonnage. This means that the feed production will always rank very high with respect to quality and value. Magnum Ultra can also be ordered as a sterile product, making it adaptable to many different environmental factors and farming practices.



MAGNUM ULTRA BMR CHARACTERISTICS	
Plant Height	7-9 feet
Grain	Yes*
Days to 50% Anthesis	100
Typical Seeds / lb	19,500
Dryland Seeding Rate	15-20 lbs drilled
Irrigated Seeding Rate	20-24 lbs drilled
Advanced Genetics	Brown Mid Rib (BMR)

*Can be ordered sterile

MAGNUM ULTRA BMR PRODUCT INFORMATION	
Hay	Very Good
Silage	Excellent
Continuous Grazing	Good
Rotational Grazing	Good
Palatability	Excellent

PACKER HGY

A CONVENTIONAL HYBRID FORAGE SORGHUM FOR HIGH PRODUCTION SILAGE

Packer HGY produces a high grain yield and is a strong standing forage sorghum. Packer HGY is consistently one of the highest tonnage forage sorghums we see in testing in trialing. Packer HGY is the top choice for high tonnage full season silage.



PACKER HGY CHARACTERISTICS	
Plant Height	6-7 feet
Grain	Yes
Days to Pollination	85-90
Typical Seeds / lb	16,000
Dryland Seeding Rate	5-6 lbs row planted
Irrigated Seeding Rate	6-8 lbs row planted
Advanced Genetics	Conventional Hybrid

PACKER HGY PRODUCT INFORMATION	
Hay	N/A
Silage	Excellent
Continuous Grazing	N/A
Rotational Grazing	N/A
Palatability	Very Good

SUDANGRASS & FORAGE

SORGHUM PRODUCTS

BRUTIS 2.0

A BMR HYBRID FORAGE SORGHUM FOR HIGH PRODUCTION SILAGE

An improvement on the legendary Brutis. **Brutis 2.0** brings a jump in yield potential while maintaining everything we loved about its predecessor. Excellent standability, top notch feed quality and aphid resistance. Brutis 2.0 has improvements on SCA tolerance and an upgraded relative maturity.



BRUTIS 2.0 CHARACTERISTICS

Plant Height	5-7 feet
Grain	Yes
Days to Pollination	90-95
Typical Seeds / lb	18,000
Dryland Seeding Rate	4-5 lbs row planted
Irrigated Seeding Rate	6-8 lbs row planted
Advanced Genetics	Brown Mid Rib (BMR) Short Statured

BRUTIS 2.0 PRODUCT INFORMATION

Hay	N/A
Silage	Excellent
Continuous Grazing	N/A
Rotational Grazing	N/A
Palatability	Very Good

QUICK CHOP

SHORT SEASON BMR FORAGE SORGHUM

Quick Chop is a medium maturity one cut silage with grain for maximizing tonnage and digestibility. This hybrid grows quickly making it suitable for double cropping after wheat harvest. It should be ready to harvest in 90 days or in the soft dough stage. Quick Chop has good stalk strength giving it excellent standability. Reduced lignin in the plant improves the digestibility significantly.



QUICK CHOP CHARACTERISTICS

Plant Height	7-9 feet
Grain	Yes
Days to Pollination	75-80
Typical Seeds / lb	18,000
Dryland Seeding Rate	5-6 lbs row planted
Irrigated Seeding Rate	6-8 lbs row planted
Advanced Genetics	Brown Mid Rib (BMR)

QUICK CHOP PRODUCT INFORMATION

Hay	N/A
Silage	Excellent
Continuous Grazing	N/A
Rotational Grazing	N/A
Palatability	Excellent

MILLET

FORAGE PRODUCTS

ALL STAR

HYBRID PEARL MILLET

All Star is a high protein, very palatable, no prussic acid millet forage type for grazing or high quality hay. A forage choice for horses and other livestock sensitive to the prussic acid levels in other sorghum forage types.



ALL STAR CHARACTERISTICS

Plant Height	5-6 feet
Grain	Yes
Days to 50% Anthesis	65-70
Typical Seeds / lb	80,000
Dryland Seeding Rate	10-20 lbs drilled
Irrigated Seeding Rate	20-28 lbs drilled
Advanced Genetics	Conventional Hybrid

ALL STAR BMR

HYBRID BMR PEARL MILLET

BMR All Star is a shorter Brachytic Dwarf hybrid pearl millet that produces high yields. It typically will reach boot stage in around 60 days. It has a short plant structure, therefore, the plant is mostly all leaves. This high leaf mass assures high concentrations of protein and TDN values. It may not yield as much as typical sudangrass but tolerance to sugar cane aphids can offset that tonnage difference.



BMR ALL STAR CHARACTERISTICS

Plant Height	4-5 feet
Grain	Yes
Days to 50% Anthesis	55-60
Typical Seeds / lb	60,000
Dryland Seeding Rate	10-20 lbs drilled
Irrigated Seeding Rate	20-28 lbs drilled
Advanced Genetics	Brown Mid-Rib (BMR); BD

MILLET

FORAGE PRODUCTS

JAPANESE MILLET

ECHINOCHLOA FRUMENTACEA

Japanese Millet (*Echinochloa frumentacea*) is a higher yielding forage than foxtail (German) millet and much higher yielding than proso millet, but not as high yielding as pearl millet or sorghum sudangrass. Forage quality is similar to foxtail or pearl millet. It is very early maturing, able to produce seed in 60 days and has high seed yield. It is perhaps the most tolerant summer annual forage grass to flooded or wet conditions, making it a favorite plant to use in plantings for waterfowl.



JAPANESE MILLET CHARACTERISTICS

Plant Height	3-4 feet
Grain	Yes
Days to 50% Anthesis	45 to 60
Typical Seeds / lb	142,800
Dryland Seeding Rate	15-25 lbs drilled
Advanced Genetics	None

PROSO MILLET

PANICUM MILLEACEUM

Proso Millet (*Panicum milleaceum*) is a very water efficient grain crop, but due to shallow roots, it is not tremendously drought tolerant and has a low yield potential compared to grain sorghum. It has prickly hairs on the leaves, which reduce forage palatability. It is often used in food plots due to its short height (grain heads are often within reach of pheasants) and early maturity. The seed is similar in quality and nutritional value as grain sorghum.



PROSO MILLET CHARACTERISTICS

Plant Height	2 feet
Grain	Yes
Days to 50% Anthesis	60 to 65
Typical Seeds / lb	150,000
Dryland Seeding Rate	20-25 lbs drilled
Advanced Genetics	None

MILLET

FORAGE PRODUCTS

GERMAN MILLET

FOXTAIL MILLET (SETARIA ITALICA)

German, or **Foxtail Millet**, is rapid growing and drought tolerant but matures early, which limits its yield potential to less than pearl millet or sorghum sudan. The forage of foxtail millet cures rapidly after swathing due to its naturally fine stems, making it very easy to put up as dry hay. The regrowth after cutting is very poor, making it best suited as a one cut, short term hay crop.



GERMAN MILLET CHARACTERISTICS	
Plant Height	2-3 feet
Grain	Yes
Days to 50% Anthesis	40 to 60
Typical Seeds / lb	165,000
Dryland Seeding Rate	20-25 lbs drilled
Advanced Genetics	None

GRAIN SORGHUM

PRODUCTS

AS212R

GRAIN SORGHUM

AS212R is an ultra early maturity and fast dry down grain sorghum, with exceptional yield potential. It has an excellent overall disease package and standability.



AS212R CHARACTERISTICS	
Grain Color	Red
Plant Color	Purple
Plant Height	42-48 in.
Head Type	Semi-Open
Pre-Flower Stress Tolerance	Excellent
Standability	Excellent
Head Extension	Excellent
Threshability	Excellent
Tillering Capacity	Moderate
Head Smut	Excellent
Fusarium	Excellent
Maize Dwarf Mosaic Virus	Excellent
Greenbug Resistance	Biotypes C,E
Sugar Cane Aphid Tolerance	Very Good
Maturity Group	Early
Days to Maturity	85-90
Days to 50% Anthesis	50-52
Average Seeds/Pound	14,000
Yield Range	100-125 bushels/acre

GRAIN SORGHUM

PRODUCTS

AS236W

GRAIN SORGHUM

AS236W provides a consistent yield with low moisture, but a great yield potential with full moisture. This white grain hybrid features a semi-open panicle with large grain that threshes very easily, and is sugarcane aphid tolerant.



AS236W CHARACTERISTICS

Grain Color	White
Plant Color	Purple
Plant Height	48-54 in.
Head Type	Semi-Open
Pre-Flower Stress Tolerance	Excellent
Standability	Excellent
Head Extension	Excellent
Threshability	Excellent
Tillering Capacity	Good
Head Smut	Excellent
Fusarium	Very Good
Maize Dwarf Mosaic Virus	Excellent
Downy Mildew - Pathotype 1	Good
Greenbug Resistance	Biotypes C,E
Sugar Cane Aphid Tolerance	Excellent
Maturity Group	Medium Early
Days to Maturity	95-100
Days to 50% Anthesis	60-65
Average Seeds/Pound	16,000
Yield Range	120-140 bushels/acre

AS258R

GRAIN SORGHUM

AS258R is anthracnose tolerant and good for late planting and double cropping. This medium-early maturity hybrid is an excellent choice for dry land production, but also yields well under irrigation.



AS258R CHARACTERISTICS

Grain Color	Red
Plant Color	Purple
Plant Height	52-58 in.
Pre-Flower Stress Tolerance	Excellent
Standability	Excellent
Head Type	Semi-Open
Head Exertion	Excellent
Threshability	Excellent
Grain Color Planted	Red
Head Smut	Excellent
Fusarium	Excellent
Maize Dwarf Mosaic Virus	Excellent
Downy Mildew	Excellent
Maturity Group	Medium Early
Greenbug Resistance	Biotypes C,E
Days to Maturity	97-100
Days to 50% Anthesis	62-64
Irrigated Lbs./Acre	6500-8000
Yield Range	120-140 bushels/acre

GRAIN SORGHUM

PRODUCTS

AS248FG

GRAIN SORGHUM

AS248FG is a high density, high bushel weight grain, with a stiff stock and deep root system.



AS248FG CHARACTERISTICS

Grain Color	White
Plant Color	Tan
Plant Height	40-45 in.
Head Type	Semi-Open
Pre-Flower Stress Tolerance	Excellent
Standability	Excellent
Head Extension	Very Good
Threshability	Excellent
Tillering Capacity	Low
Head Smut	Excellent
Fusarium	Excellent
Maize Dwarf Mosaic Virus	Excellent
Downy Mildew - Pathotype 1	Excellent
Greenbug Resistance	Biotypes C,E
Sugar Cane Aphid Tolerance	Excellent
Maturity Group	Medium
Days to Maturity	92-97
Days to 50% Anthesis	58-62
Average Seeds/Pound	15,000
Yield Range	120-140 bushels/acre

AS230B-DT

GRAIN SORGHUM

AS230B-DT is an early maturity Herbicide Tolerant Bronze with great yield potential. This hybrid has the Double Team trait which tolerates the chemical First Act™ for grass weed control.



AS230B-DT CHARACTERISTICS

Grain Color	Bronze
Plant Color	Purple
Plant Height	42-48 in.
Pre-Flower Stress Tolerance	Good
Standability	Good
Head Type	Semi-Open
Head Exertion	Good
Threshability	Good
Grain Color Planted	Bronze
Head Smut	Good
Fusarium	Excellent
Maize Dwarf Mosaic Virus	Excellent
Downy Mildew	Excellent
Maturity Group	Early
Greenbug Resistance	Biotypes C,E
Days to Maturity	90-95
Days to 50% Anthesis	55-59



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