



• SUMMER ANNUAL •

PRODUCT GUIDE



• FORAGE SORGHUM VARIETIES •



Silo Pro BMR

In order of maturity

Silo Pro BMR

- Full season brachytic dwarf BMR-6 forage sorghum
- Very wide leaves with high leaf-to-stem ratio
- 6-7' tall at maturity, very good standability
- Multiple harvest in boot stage or full season harvest in soft dough stage



FS 812

FS 812

- Full season conventional forage sorghum that only reaches 6-7' in height
- 110-115 days to soft dough stage
- Multiple harvest in boot stage or full season harvest in soft dough stage
- Very good digestibility as well as standability



GW-600 BMR

GW-600 BMR

- Dry stalk BMR-6 forage sorghum
- Can produce corn silage quality, 95-100 days to soft dough stage
- Dry stalk allows plant to be 65-70% moisture at soft dough stage
- Multiple harvest in boot stage or full season harvest in soft dough stage



GW-400 BMR

GW-400 BMR

- Male sterile, high sugar content forage sorghum
- Tall growing, BMR-6 plant
- Can have 18-22% sugar content in the plant
- Adapted well to the Midwest with a maturity of 80-85 days
- Multiple harvest in boot stage or full season harvest in soft dough stage



2120

2120

- Tall growing, high biomass plant
- Can reach harvest maturity at 85-90 days
- Male sterile with high sugar content
- Great for bulk tonnage, cover crop, or wildlife visibility screen

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• SORGHUM SUDANGRASS VARIETIES •



CISCO SS 711 BMR BD

CISCO SS 711 BMR BD

- Brachytic dwarf BMR-6, dry stalk sorghum sudangrass
- Shortened internodes provide an increased leaf-to-stem ratio
- Maturity to boot stage is 55-60 days from emergence
- Great for grazing or ensiling
- Strong leaf disease package



Sweet Six BMR

Sweet Six BMR

- BMR-6 dry stalk sorghum sudangrass
- Very rapid growth, 45-50 days to boot stage
- High forage quality, very digestible
- Early vigor provides quick canopy and rapid regrowth provide more yield for the season



Sweet Forever BMR

Sweet Forever BMR

- BMR-6 sorghum sudangrass with extended harvest window
- Photoperiod sensitive, will not flower until day length drops below 12h 20 min
- High yields with wide harvest window
- Great management tool against unsuitable harvest conditions
- Good for grazing or ensiling



Super Sugar DM

Super Sugar DM

- Conventional, fine stemmed sorghum sudangrass
- Delayed maturity trait allows plant to add tonnage without decreasing quality
- Up to 90 days before heading (flower production)
- Great option for a single harvest, such as following wheat



Sweet Bites

Sweet Bites

- Conventional, wide leafed sorghum sudangrass
- Rapid growth with higher leaf-to-stem ratio as compared to similar hybrids
- First harvest 50-55 days from emergence

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• OTHER CISCO SUMMER ANNUALS •



Pro-Max BMR Sudangrass

Pro-Max BMR Sudangrass

- BMR-12 gene, reduced lignin content
- Fine stemmed, good growth characteristics
- Harvest 45 to 50 days after emergence
- Start grazing at 34-30" or mechanically harvest at 30-50"



Sweet Summer BMR Pearl Millet

Sweet Summer BMR Pearl Millet

- BMR Hybrid pearl millet with dwarf gene
- No prussic acid risk during times of stress such as a drought or freeze
- Safe for horses
- Grows in lower fertility situations better than other summer annuals



Tifleaf III Pearl Millet

Tifleaf III Pearl Millet

- Conventional hybrid pearl millet with dwarf gene
- Can reach boot stage in 65-70 days
- Dry matter yield is less than sorghum sudangrass, but has higher protein and digestibility
- Very resilient plant with a great disease resistance package



CISCO Summer Delite Teff Grass

CISCO Summer Delite Teff Grass

- Fine stemmed, rapid growth warm season grass
- Makes dry hay for horses as well as cattle
- Can also be ensiled, wet wrapped, or grazed
- Great option for horses needing low sugar content hay
- Requires a **firm** seedbed and good fertility



Wilder Grain Sorghum

Wilder Grain Sorghum

- Great for quail, turkey, pheasants, and deer
- Reaches 3-4' in height
- Great standability and resistant to weather degradation of the grain
- Medium maturity, heavy grain producer
- Matures in 95-100 days

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• SUMMER ANNUAL MANAGEMENT •

PRUSSIC ACID (aka cyanide):

Produced by any sorghum, sorghum sudangrass, or sudangrass when the plant is placed under stress. Most stresses that cause prussic acid are drought, early regrowth, or frost/freeze.

Here are some tips to help reduce the risk of prussic acid poisoning.

1. Remove livestock from pasture before a frost or freeze and do not return animals for 7-10 days after the entire field turns brown. Some frost will only damage upper leaves.
2. The toxic gas is released when the plant cells are ruptured, i.e. mechanical harvest damage.
3. Ensiling reduces prussic acids levels in the plant as it cures and ferments.
4. Dry baling also allows the prussic acid to dissipate during the drying process.
5. Wait until forage sorghum or sorghum sudangrass is 18-24" tall before grazing.

NITRATE POISONING:

Summer annuals can accumulate high nitrate levels in situations of high N fertility combined with drought stress. High nitrate levels can kill livestock.

1. Avoid excess application of nitrogen (N).
2. During slow growing periods due to drought, low temperatures, prolonged cloudy weather, avoid harvest for a period of time to allow nitrate levels to decrease in the plant.
3. Do not harvest forage that is high in nitrate as dry hay, the nitrate will not dissipate.



4. Ensiling reduces nitrate levels in feed. Bacterial metabolism during ensiling can reduce nitrate levels in the feed from 40-60%.
5. Hungry livestock, pregnant and/or lactating livestock are not as tolerant of high nitrate concentrations in the feed.
6. High nitrate feed can be diluted with other feed, but a livestock nutritionist should be consulted. Prussic acid and nitrate levels can be checked anywhere forage quality testing is done. **When in doubt have your forage tested.**



SUMMER ANNUAL CHARACTERISTICS

	Variety	Days to Maturity	Harvest Stage	Stalk Type	Seed/lb 1,000	Seeding Rate lbs/A	Protein Potential	Sugar Content	N lbs/A Planting	N 2 nd Harvest	N 3 rd Harvest
Sorghum Sudan	<i>SS 711 BMR BD</i>	60	Boot	Dry	18-20,000	30-45	14-16%	12-16%	50-60	30	30
	<i>Sweet Six BMR</i>	45-55	Boot	Dry	15-18,000	35-50	12-14%	10-14%	50-60	30	30
	<i>Sweet Forever BMR</i>	50-85	4-6'	Juicy	15-17,000	35-50	12-14%	12-16%	50-60	30	30
	<i>Super Sugar DM</i>	55-85	4-6'	Juicy	15-21,000	25-40	14-16%	12-16%	50-60	30	30
	<i>Sweet Bites</i>	50-60	Boot	Juicy	19-21,000	35-50	14-16%	12-14%	50-60	30	30

Forage Sorghum	<i>Silo Pro BMR</i>	110-115	Soft Dough or Boot	Juicy	14	5	11-13%	10-14%	50-75	30	N/A
	<i>*New* FS 812</i>	110-115	Soft Dough or Boot	Juicy	15	5	11-13%	12-14%	50-75	30	N/A
	<i>GW-600 BMR</i>	90-95	Soft Dough or Boot	Dry	14	5	8-11%	10-14%	50-75	30	N/A
	<i>GW-400 BMR (male sterile)</i>	80-85	Heading or Boot	Juicy	19	5	8-11%	18-21%	50-75	30	N/A
	<i>2120</i>	85-90	Soft Dough or Boot	Juicy	19	5	7-10%	14-18%	30-50	30	N/A

Pearl Millet	<i>Sweet Summer BMR</i>	40-50	Late Boot	Juicy	60	10-12	16-20%	6-8%	30-50	30	30
	<i>Tifleaf III</i>	40-50	Late Boot	Juicy	60	10-12	16-20%	6-8%	30-50	30	30

Teff	<i>Summer Delite</i>	35-50	Late Boot	N/A	1,250,000	10-12	12-16%	5-7%	50-75	30-40	30-40
Sudangrass	<i>Pro-Max BMR</i>	45-55	Late Boot	Juicy	43,000	35-50	15-18%	8-10%	50-75	30-40	30-40

