



Midwest Region by NSG

## FORAGE GUIDE

# 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.



# SUDANGRASS & FORAGE

## SORGHUM PRODUCTS

### 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

### PACKER BMR

A BMR HYBRID FORAGE SORGHUM  
FOR HIGH PRODUCTION SILAGE

**Packer BMR** offers great tonnage in a BMR package. This Hybrid has a high grain stover ratio increasing silage energy.



#### PACKER BMR CHARACTERISTICS

Plant Height	7-8 feet
Grain	Yes
Days to Pollination	90-95
Typical Seeds / lb	16,000
Dryland Seeding Rate	5-6 lbs row planted
Irrigated Seeding Rate	6-8 lbs row planted
Advanced Genetics	Brown Mid Rib (BMR)

#### PACKER BMR 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

# 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 multicut feed.



#### 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.



### 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.



#### EXCEL II CHARACTERISTICS

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

#### EXCEL II PRODUCT INFORMATION

<b>Hay</b>	Very Good
<b>Silage</b>	Good
<b>Continuous Grazing</b>	Very Good
<b>Rotational Grazing</b>	Very Good
<b>Palatability</b>	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

### BRUISER

#### BRACHYTIC 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





# 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