



# 22053

Sorghum - Sudangrass  
(Sorghum bicolor x Sorghum  
sudanense)



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[www.AdvantaUS.com](http://www.AdvantaUS.com)

- **BMR for Improved Digestibility and Palatability**
- **Photoperiod Sensitive for Extended Harvest Window**
- **Excellent Recovery After Cutting**

BMR Sorghum-Sudangrass with exceptional palatability and the addition of a Brown Midrib gene has shown marked reduction of lignin content in the plant. Lignin is the component of the cell walls that is generally regarded as the primary factor limiting the extent of forage fiber digestion. This totally new hybrid has shown an 18.9% average increase in feed value compared to conventionals and offers an additional \$418.00 dollars per acre based on feed at \$60.00 per ton. It is a premium summer annual hybrid with the Photoperiod Sensitive trait which provides a wide window of harvest and consistent quality over the entire growing season – plus the increased utilization and efficiency you get from the Brown Midrib gene.

### AGRONOMIC TRAITS

Early Seedling Vigor:	<b>Good</b>
Growth Habit:	<b>Upright</b>
Recovery After Cutting:	<b>Excellent</b>
Maturity:	<b>Varies due to day length</b>
Uniformity:	<b>Good</b>
Plant Color:	<b>Purple</b>
Midrib Type:	<b>Brown</b>

### RECOMMENDED SEEDING RATES

Bushel Weight:	<b>56 lbs.</b>	
Average Seeds per Pound:	<b>12,500</b>	
	<b>Dryland</b>	<b>Irrigated</b>
Rates (lbs.):	<b>10 - 30</b>	<b>12 - 60</b>
Seeds/Sq. Ft	<b>5 - 14</b>	<b>17 - 22</b>

### CROP USE INFORMATION

Life Cycle:	<b>Annual</b>
Ease of Establishment:	<b>Good</b>
Shade Tolerance:	<b>Poor - Fair</b>
Drought Stress:	<b>Excellent</b>
Wet Soil	<b>Fair</b>
Low pH Tolerance:	<b>Moderate</b>
Minimum pH:	<b>6.0</b>
Saline Soils (White Alkali):	<b>Fair</b>
Saline – Sodic Soils (Black Alkali):	<b>Fair</b>
Hay:	<b>Excellent</b>
Silage:	<b>Excellent</b>
Continuous Grazing:	<b>Good</b>
Rotational Grazing:	<b>Excellent</b>
Palatability:	<b>Excellent</b>
Anti-Quality:	<b>Prussic Acid and Nitrate</b>

### DISEASE/INSECT/NEMATODE RATINGS

Downy Mildew:	<b>MR</b>
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## QUALITY DATA

Variety	DM yield	%CP	%ADF	%NDF	%IVTD	Beef / ton	\$/acre
22053	15,600	9.84	28.57	50.23	78.99	303.70	1539.61
22043	12,138	8.75	25.65	45.49	81.70	333.60	1315.93
Nutri Plus	11,898	9.23	29.78	51.34	78.69	300.69	1155.35
Megagreen	13,476	8.74	26.99	47.66	75.78	281.20	1121.54
Graze All	12,078	9.03	32.31	53.14	72.16	249.20	978.03

## 22053 Sorghum-Sudan Management and Production Guide:

### Strengths:

- High yield potential.
- Brown Midrib.
- Highly palatable.
- Photoperiod sensitive
- Low water requirement.
- Wide harvest window

### Seeding:

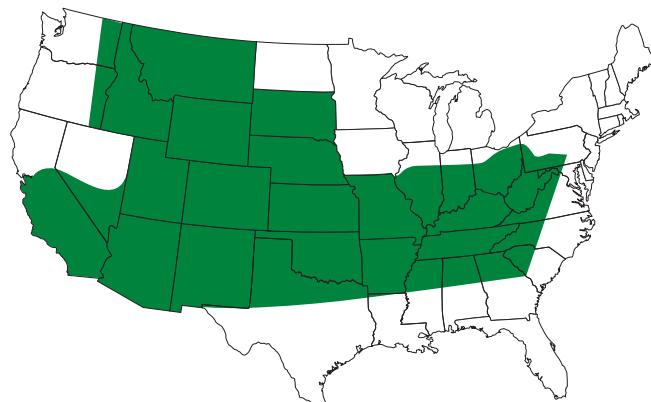
- Soil temperature should be at least 60 F.
- 22053 can be planted after day length reaches 12 hours and 30 minutes
- Can be no-tilled into the stubble of winter and spring crops.
- Planting depth should be 1".
- Do not plant in soils with pH greater than 7.5 to 8.0.
- Chlorosis can be a severe problem

### Harvest:

- 22053 is usually harvested 40-70 days after seeding.
- Harvest prior to heading to obtain best quality and to prevent leaf loss

## ADAPTATION RATINGS

Photosynthetic Type:	<b>Warm Season</b>
Photoperiod:	<b>Sensitive</b>
Soil Temperature:	<b>Warm (60 F)</b>
Water Requirement:	<b>Very Low</b>



## Avoiding Nitrate and Prussic Acid Poisoning from Sorghum:

- Avoid large nitrogen applications prior to expected drought periods.
- Can increase Prussic Acid concentration for several weeks after application.
- Do not harvest drought-damaged plants within four days following a good rain.
- Do not greenchop within seven days of a killing frost.
- Cut at a higher stubble height, nitrates tend to accumulate in the lower stalk.
- Wait one month before feeding silage to give Prussic Acid enough time to escape .