

# SP4105

## BROWN MID-RIB SORGHUM X SUDANGRASS

### KEY POSITIONING / BENEFITS

- Photoperiod sensitive (headless) and BMR
- Dual purpose: silage or hay
- Extended harvest window
- Best for hay, haylage, and greenchop
- Good leaf-to-stem ratio
- Provides good forage quality

### POSITIONING / MANAGEMENT

SP4105 can expand the window for usage because it will not head under most conditions. SP4105 continues to grow and maintain its nutrient value in the leaves and stem until it is chopped or grazed thus extending the time period for grazing or chopping. SP4105 is a versatile hybrid sorghum x sudangrass that can meet most summer forage needs and produces high quality forage for fast weight gain and/or increased milk production. This hybrid is best used for hay, haylage and greenchop. SP4105 has a good leaf to stem ratio that helps provide good quality with proper management.

### SUMMER ANNUAL MANAGEMENT

**Planting Date:** Late April through mid August. Soil temperatures should be 60°F to 65°F or warmer. Planting too early can cause slow early growth and reduced population.

**Planting Depth:** 3/4" to 1 1/2" deep depending on soil moisture.

**Row Width:** Drilled rows for best quality.

**Planting Method:** Drill preferred.

**Fertility:** Nitrogen: 75 to 100 lbs./acre PPI & 50 to 75 lbs./acre after first cutting. Phosphorus: 20 to 60 lbs./acre, more if soil test indicates less than 30 lbs./acre. Potassium: 40 to 80 lbs./acre, more if soil test indicates less than 300 lbs./acre.

### PLANTING RATE (LBS./ACRE)

Principle Uses	Planting Method	Average Annual Moisture (inches)		
		<20	20 - 26	26 - 32>
		Stress	Favorable	Irrigated <sup>2</sup>
Grazing & Cover Crop	36" - 40" Rows	4 - 8 <sup>1</sup>	8 - 12	12 - 15
	20" - 30" Rows	6 - 10 <sup>1</sup>	10 - 15	15 - 25
	Drilled	10 - 15 <sup>1</sup>	15 - 20	20 - 30
Hay, Haylage & Greenchop	Drilled	15 - 20	20 - 25	25 - 50
Hay, Grazing & Cover Crop	Broadcast	20 - 25 <sup>1</sup>	25 - 30	30 - 50

<sup>1</sup> - Recommended rates for cover crop

<sup>2</sup> - Includes high rainfall areas and conditions

Planting rates for hybrid sudangrass and sorghum x sudangrass depends on a number of factors including location, growing conditions, management, etc. The above rates serve as a guide.

### AGRONOMIC TRAITS<sup>1</sup>

Forage Yield Potential .....	2
Early Growth Rate .....	2
Regrowth .....	2
Average Plant Height (feet) .....	8' - 10'
Standability .....	4
Drought Tolerance .....	3
Leafiness .....	2
Avg. Seeds / Lb. (x1000) .....	16.5
Prussic Acid (HCN) Potential .....	Medium

### DISEASE RESISTANCE

MDMV Tolerance .....	Undetermined
Downy Mildew:	
<i>Pathotype 1</i> .....	Undetermined
<i>Pathotype 3</i> .....	Undetermined
<i>Pathotype P6</i> .....	Undetermined
Anthracnose .....	Undetermined

### INSECT RESISTANCE

Greenbug:	
<i>Biotype C</i> .....	Undetermined
<i>Biotype E</i> .....	Undetermined

### PRINCIPAL USES<sup>1</sup>

Hay .....	3
Haylage .....	3
Grazing / Pasture .....	4
Greenchop .....	3

### HARVEST MANAGEMENT

Do not cut or graze until forage reaches 18" in height. Cut at 24" to 36" for best quality and yield. Cut 6" to 8" above ground level for fastest regrowth. Condition with a crimper at a slight diagonal to speed drying and regrowth. Wilt to 50% to 60% moisture for storage in a bunker or concrete stave silo and 45% to 55% for a sealed storage system. Forage should be about 85% to 90% plant moisture at cutting. Chop at 1/4" to 1/8" cutting length to improve packing.

### HARVEST HEIGHT

Grazing .....	18" - 24"
Hay / Haylage .....	24" - 36"
Greenchop .....	30" - 40"

### YIELD

2 to 4 cuttings depending on planting date, management and growing season. 3 to 6 tons/acre dry matter (20 to 40 tons green weight).

Footnotes: 1 - Numerical Rating: 1 to 9 (1 = Excellent, 5 = Average, 9 = Poor)

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