

Sorghum - Sudangrass
(Sorghum bicolor x Sorghum sudanense)

HP 300 BMR PPS

- * Significant Increase in Digestibility
- * Significant Increase in Palatability
- * Photoperiod sensitive
- * Wide harvest window

What and Why a BMR

HP 300 BMR PPS Brand Hybrid 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 offers a premium summer annual hybrid with the Photoperiod sensitive trait. This trait gives you 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.

Disease/Insect/Nematode Ratings:

Downy Mildew: MR

Adaptation Ratings:

Photosynthetic Type: Warm Season
 Photoperiod: sensitive
 Soil Temperature: Warm (60 F)
 Water Requirement: Very Low

Agronomic Traits:

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

Crop Use Information:

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

Planting Rates:

Bushel weight: 56 lbs.
 Seeds per Pound: 16,000

Rate (Lbs.):	<u>Dryland</u>	<u>Irrigated</u>
	10 – 30	12-60
Seeds/Sq. Ft.	5 – 14	17 – 22

Quality Data - HP 300 BMR PPS Sorghum-Sudan:

Variety	DM yield	%CP	%ADF	%NDF	%IVTD	Beef / ton	\$/acre
HP 300 BMR PPS	15,600	9.84	28.57	50.23	78.99	303.70	1539.61
HP 200 BMR	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

HP 300 BMR PPS Sorghum-Sudan Management and Production Guide:

Strengths

- High yield potential.
- Brown Midrib.
- Highly palatable.
- Photoperiod sensitive allows for wide window of harvest of quality forage.
- Low water requirement and excellent drought stress tolerance
- Flexible usage from grazing and haying to silage.

Seeding:

- Soil temperature should be at least 60 F.
- HP 300 BMR PPS 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:

- HP 300 BMR PPS is usually harvested 70 days after seeding.
- Harvest prior to heading to obtain best quality and to prevent leaf loss

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 .