

2025 WARM-SEASON ANNUAL GRASS VARIETY TRIAL

The forage cultivar evaluation program is a partnership between University of Tennessee Extension and UT AgResearch to aid producers in the selection of the best cultivars for their farm. The crop was grown using management practices considered to be the best for the crop, including fertilization according to soil test results. This study was conducted using a randomized complete block design with four replications. Least significant difference (LSD) values at the 5 percent level are shown at the bottom of each table with the coefficient of variation (CV). Within any table, yield of any two varieties being compared must differ by at least this amount to be considered different.

Table 1: Yield of varieties at the Northeast Tennessee AgResearch and Education Center, Greeneville, TN.

Variety	Species	Supplier	Commercially Available	Yield (ton DM/acre)		
				Aug 18	Oct 16	Total
Mojo	Crabgrass	Barenbrug USA	Yes	1.86	1.00	2.88
Quick N Big	Crabgrass	Dalrymple Farms	Yes	1.82	0.74	2.53
Red River	Crabgrass	Dalrymple Farms	Yes	2.05	0.32	2.39
<i>Experimental Varieties</i>						
Marandu	Brachiaria	Gasparim	No	2.48	1.55*	4.03*
Paiaguas	Brachiaria	Gasparim	No	2.26	1.81*	4.06*
Piata	Brachiaria	Gasparim	No	2.04	1.25	3.31*
Ruziziensis	Brachiaria	Gasparim	No	2.01	1.74*	3.75*
Xaraes	Brachiaria	Gasparim	No	2.42	1.68*	4.07*
CV				12	43	21
P-Value				0.3198	<0.0001	0.0022
LSD (P<0.05)				0.69	0.51	0.96
*yielded statistically the same as the top-yielding variety						
Nitrogen application: 60 lb/acre at planting, 30 lb/acre after first harvest. Soil amended for the required Lime, P, and K.						
Planted: July 8, 2025						

Table 2: Average forage nutritive value by harvest.

Species	Constituents ¹ (%)	Harvest		
		Aug 18	Oct 16	Trial Average
Crabgrass	CP	16.5	10.4	13.4
	ADF	37.0	35.7	36.3
	NDF	64.0	61.0	62.5
	TDN	59.8	61.2	60.5
Brachiaria	CP	15.3	10.3	12.8
	ADF	35.0	32.6	33.8
	NDF	63.9	61.1	62.5
	TDN	63.0	64.4	63.7
¹ Nutritive values represented at 100% DM Basis for CP, crude protein; ADF, acid detergent fiber; NDF, neutral detergent fiber; TDN, total digestible nutrients; (Analysis performed using Near Infrared Spectrometer [NIRS] Technology). Target stage of growth for harvest was mid to late boot. Grass Hay Equation (NIRS Consortium).				

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