

2014 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. This study was conducted using a randomized complete block design with three replications. The crop was grown using management practices considered to be the best for the crop, including fertilization according to soil test results.

Least significant difference (LSD) values at the 5 percent level are shown at the bottom of each table. Within any table, yields of any two varieties being compared must differ by at least this amount to be considered different.

Table 1: 2014 Yield of warm-season annual grass varieties at the East Tennessee Research and Education Center at Knoxville.

Variety	Species	Knoxville			
		Yield (ton DM/acre)			
		Jul 11	Aug 25	Oct 3	Total
ASBDSS	BMR6 sorghum x sudangrass	1.72	2.51*	0.94*	5.18
Cowvittles II	forage sorghum	2.28*	2.86*	1.03*	6.17*
Dessie	teffgrass	1.37	2.91*	---	4.28
Exceed	BMR hybrid pearl millet	1.69	2.77*	1.08*	5.54*
FSG 114	BMR6 forage sorghum	2.85*	3.25*	1.05*	7.16*
FSG 115	BMR6 dwarf forage sorghum	2.21*	2.80*	1.10*	6.11*
FSG 214	BMR6 sorghum x sudangrass	2.98*	2.60*	0.86	6.44*
GreenGrazer V	sorghum x sudangrass	3.11*	3.16*	0.82	7.10*
Quick-N-Big	crabgrass	1.33	2.05	1.01*	4.40
Surpass	BMR6 sorghum x sudangrass	2.26*	2.71*	1.12*	6.09*
XtraGraze	BMR6 sorghum x sudangrass	2.02*	2.79*	1.24*	6.05*
LSD P=0.05		1.16	0.89	0.36	1.65
* yielded statistically the same as the top-yielding variety					
Nitrogen application: 60 lb/ acre at planting, 60 lb/acre after first harvest					
Planted May 9, 2014					

Table 2: Variety Information

Variety	Species	Supplier	Commercially Available
ASBDSS	BMR6 sorghum x sudangrass	Tennessee Farmers Co-Op	No
Cowvittles II	forage sorghum	Tennessee Farmers Co-Op	Yes
Dessie	teffgrass	Tennessee Farmers Co-Op	Yes
Exceed	BMR hybrid pearl millet	Tennessee Farmers Co-Op	Yes
FSG 114	BMR6 forage sorghum	Tennessee Farmers Co-Op	Yes
FSG 115	BMR6 dwarf forage sorghum	Tennessee Farmers Co-Op	Yes
FSG 214	BMR6 sorghum x sudangrass	Tennessee Farmers Co-Op	Yes
GreenGrazer V	sorghum x sudangrass	Tennessee Farmers Co-Op	Yes
Quick-N-Big	crabgrass	Estel Farm and Seed	Yes
Surpass	BMR6 sorghum x sudangrass	Coffey Forage Seeds, Inc	Yes
XtraGraze	BMR6 sorghum x sudangrass	Coffey Forage Seeds, Inc	Yes

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