2010 Warm-Season Annual Grass Report

Research Report 11-7

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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. Also, coefficient of variation (CV) values are shown at the bottom of each table. This value is a measure of the consistency of yields found within each study, with lower CVs indicating less variability.

Table 1: Yield of warm-season annual grass varieties at the Middle Tennessee Research and Education Center at Spring Hill.

Variety	Species	Yield (ton DM/acre) 2010		
		Jul 02	Aug 17	Total
BMR 209	pearl millet	1.02	0.31	1.33
Enorma	sudangrass	0.83	0.99*	1.82*
Promax	sudangrass	1.20	0.81*	2.01*
Greengrazer V	sorghum x sudangrass	1.32*	1.23*	2.55*
FSG 208 BMR	sorghum x sudangrass	0.79	0.76*	1.55
AS1BMR	sorghum x sudangrass	1.47*	0.63*	2.10*
Greentreat A-Plus	sorghum x sudangrass	1.20	1.25*	2.45*
Greentreat Plus	sorghum x sudangrass	1.10	1.25*	2.35*
AS2	sorghum x sudangrass	1.19	1.15*	2.34*
Greentreat Dynamo	sorghum x sudangrass	1.04	1.23*	2.27*
ASPS	sorghum x sudangrass	1.24	0.91*	2.15*
Dessie	teffgrass	1.72*	0.37	2.09*
Reprieve	teffgrass	1.64*	0.00	1.64
Pharoh	teffgrass	1.47*	0.00	1.47
	LSD P=.05	0.46	0.69	0.88
	CV %	22	53	26
* yielded statistically the same as the top-yielding variety				
Nitrogen Application: 60 lb/acre at planting and 60 lb/acre after first harvest				
Planted May 6, 2010				

Table 2: Variety Information

Variety	Species	Supplier	Commercially Available
BMR 209	pearl millet	Land O' Lakes Seed	Yes
Enorma	sudangrass	Land O' Lakes Seed	Yes
Promax	sudangrass	AMPAC Seed	Yes
Greengrazer V	sorghum x sudangrass	Allied Seed	Yes
FSG 208 BMR	sorghum x sudangrass	Allied Seed	Yes
AS1BMR	sorghum x sudangrass	Allied Seed	No
Greentreat A-Plus	sorghum x sudangrass	Land O' Lakes Seed	Yes
Greentreat Plus	sorghum x sudangrass	Land O' Lakes Seed	Yes
AS2	sorghum x sudangrass	Allied Seed	No
Greentreat Dynamo	sorghum x sudangrass	Land O' Lakes Seed	Yes
ASPS	sorghum x sudangrass	Allied Seed	No
Dessie	teffgrass	Allied Seed	Yes
Reprieve	teffgrass	Land O' Lakes Seed	Yes
Pharoh	teffgrass	Land O' Lakes Seed	Yes

This and other useful information can be found at your local extension office, or at our website.

http://forages.tennessee.edu