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2013 Cool-Season Annual Grass Report

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: 2013 Yield of cool-season annual grass varieties at the Research and Education Center in Greeneville.

		Greeneville			
Variety	Species	Yield (ton DM/acre)			
		Apr 9	May 13	Jun 20	Total
AMP	Ryegrass	1.41	2.13	2.58*	6.11
Bates RS4	Rye	0.99	1.95	2.67*	5.61
DH-3	Ryegrass	0.27	1.84	2.72*	4.84
Fria	Ryegrass	1.13	2.29*	2.64*	6.07
Hercules	Ryegrass	1.45	2.47*	2.65*	6.57
Jackson	Ryegrass	1.30	2.37*	2.92*	6.59
Jumbo	Ryegrass	1.33	2.37*	2.93*	6.63
LWT 13	Ryegrass	1.52	2.31*	2.82*	6.64
LWT 14	Ryegrass	1.32	2.10	2.55*	5.96
M2 CVS	Ryegrass	2.27*	2.29*	2.41*	6.96
Marshall	Ryegrass	2.42*	2.78*	3.06*	8.26*
ME-4	Ryegrass	1.97*	2.01	2.98*	6.96
ME-94	Ryegrass	1.75	2.16	2.87*	6.78
Nelson	Ryegrass	1.34	2.47*	2.96*	6.76
Passerel Plus	Ryegrass	0.63	2.15	2.51*	5.28
SBA-22	Ryegrass	0.98	2.42*	2.57*	5.97
TAMTBO	Ryegrass	1.05	2.04	2.99*	6.08
Winterhawk	Ryegrass	1.80	2.17*	2.58*	6.56
LSD P=0.05		0.61	0.61	0.73	1.04

* yielded statistically the same as the top-yielding variety Nitrogen application: 45 lb/acre at planting, 60 lb/acre at green-up, 30 lb/acre after Planted October 15, 2012

Variety	Species	Supplier	Available
AMP	Ryegrass	Columbia Seeds	No
Bates RS4	Rye	Athens Seed Company	Yes
DH-3	Ryegrass	Tennessee Farmers Cooperative	Yes
Fria	Ryegrass	Allied Seed	Yes
Hercules	Ryegrass	Barenbrug USA	Yes
Jackson	Ryegrass	The Wax Company	Yes

Table 2: Variety Information

		Greenville			
Variety	Species	Yield (ton DM/acre)			
		Apr 9	May 13	Jun 20	Total
AMP	Ryegrass	1.41	2.13	2.58*	6.11
Bates RS4	Rye	0.99	1.95	2.67*	5.61
DH-3	Ryegrass	0.27	1.84	2.72*	4.84
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Passerel Plus	Ryegrass	0.63	2.15	2.51*	5.28
SBA-22	Ryegrass	0.98	2.42*	2.57*	5.97
TAMTBO	Ryegrass	1.05	2.04	2.99*	6.08
Winterhawk	Ryegrass	1.80	2.17*	2.58*	6.56
LSD P=0.05		0.61	0.61	0.73	1.04

**This and other
useful
information
can be found
at your local
extension
office, or on
our website.
utbfc.utk
.edu**

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