



2012 Annual Ryegrass Report

Research Report 13-5

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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 cool-season annual grass varieties at the Research and Education Center at Greeneville and the Plateau Research and Education Center in Crossville.

Variety	Greeneville			Crossville		
	Yield (ton DM/acre)			Yield (ton DM/acre)		
	Apr 9	May 23	Total	May 12	May 31	Total
Jackson	2.97	1.58	4.54	2.88	1.08*	4.06
Marshall	4.01*	1.63*	5.64*	3.29*	1.33*	4.62*
Winter Hawk	3.27	1.72*	5.00*	2.85	1.23*	4.07
Aubade	2.67	1.50	4.17	2.29	1.31*	3.60
Max	2.77	1.27	4.04	2.01	1.25*	3.26
Wintermore	2.49	1.17	3.66	3.32*	1.19*	4.51*
DH-3	2.73	1.20	3.93	3.29*	1.18*	4.47*
Fria	3.71*	1.47	5.18*	3.37*	1.22*	4.59*
Passerel Plus	2.72	1.18	3.90	3.39*	0.94	4.33*
TAMTBO	2.87	1.77*	4.64	3.48*	1.14*	4.62*
Diamond T	2.70	1.39	4.09	3.84*	1.16*	5.01*
Bulldog Grazer	2.80	0.95	3.75	3.53*	0.81	4.33*
Tetrastar	2.75	1.48	4.23	3.45*	1.10*	4.55*
Lonestar	3.04	1.35	4.40	3.22*	1.16*	4.38*
Nelson	3.43*	1.46	4.90*	3.5*	1.36*	4.86*
M2CVS	3.51*	1.67*	5.18*	3.15*	1.05*	4.21
ME94	3.27	1.74*	5.00*	3.36*	1.18*	4.54*
ORWHTAR-11	3.00	1.38	4.38	3.08*	1.27*	4.16
ORWH-11	3.21	1.42	4.64	2.83	1.22*	4.05
PS-AR-09-1	3.04	1.52	4.56	1.96	1.50*	3.46
Lh-4X-IPS	2.75	1.45	4.19	2.26	1.36*	3.62
PS-Lm-09-2	2.76	1.39	4.14	2.31	1.35*	3.65

07-2-AR	2.48	1.46	3.94	2.56	1.18*	3.73
ME-4	3.30	2.03*	5.33*	3.00	1.22*	4.22
LSD P=.05	0.66	0.39	0.81	0.77	0.33	0.75
CV %	13	16	11	16	17	11
* 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 first cut						
Greeneville planted September 26, 2011						
Crossville planted September 14, 2011						

Table 2: Variety Information

Variety	Supplier	Commercially Available
Jackson	The Wax Company	Yes
Marshall	The Wax Company	Yes
Winter Hawk	Allied Seed	Yes
Aubade	Check Entry / Generic	Yes
Max	Check Entry / Generic	Yes
Wintermore	Allied Seed	Yes
DH-3	Allied Seed	Yes
Fria	Allied Seed	Yes
Passerel Plus	Pennington Seed	Yes
TAMTBO	Oregro Seed	Yes
Diamond T	Oregro Seed	Yes
Bulldog Grazer	Athens Seed Company	Yes
Tetrastar	Grassland Oregon	Yes
Lonestar	Grassland Oregon	Yes
Nelson	The Wax Company	No
M2CVS	The Wax Company	No
ME94	The Wax Company	No
ORWHTAR-11	Oregro Seed	No
ORWH-11	Oregro Seed	No
PS-AR-09-1	PICKSEED USA	No
Lh-4X-IPS	PICKSEED USA	No
PS-Lm-09-2	PICKSEED USA	No
07-2-AR	PICKSEED USA	No
ME-4	The Wax Company	No

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

<http://forages.tennessee.edu>