



2008 Cool Season Annual Variety Trial Report

Gary Bates and Joe Beeler, Plant Sciences

The University of Tennessee

The purpose of forage cultivar evaluation is to aid producers in the selection of the best cultivars for their farm. The data in the following tables were conducted using plot design, experimental techniques, and management that were considered best management practices for each crop. These studies were planted in fall, 2007, and were only irrigated to aid in establishment.

Least significant difference (LSD) values at the five 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 in yielding ability. 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.

TABLE 1: Yield of cool-season annual grass varieties during 2007 – 08 at the East Tennessee Research and Education Center in Knoxville.

Variety	Yield (lb DM/acre)			
	December 7	April 8	May 22	Total
ME-94	1779*	2360	4246*	8386*
ME4	1667*	2014	4615*	8297*
Marshall	1162*	2382	4626*	8170*
Jackson	1364*	2478	3990*	7832*
Winter Magic	0	3781*	3649*	7431*
TetraPro	843*	1871	5008*	7722*
WMN97	904*	2307	4509*	7720*
Passerel Plus	1355*	2090	4190*	7636*
DH-3	1001*	2607	3410*	7019*
Jumbo	575	2231	3690*	6496*
Forage Max	0	2775	3292*	6067
SS 76-30	0	2411	3554	5965
LSD (P=.05)	1086	833	1740	1912
CV (%)	53	20	25	15

* yielded statistically the same as the top yielding variety



TABLE 2: Yield of cool-season annual grass varieties during 2007 – 08 at the Plateau Research and Education Center in Crossville.

Variety	Yield (lb DM/acre)		
	April 9	May 21	Total
Marshall	3706*	5113*	8819*
ME4	3412*	5353*	8764*
ME-94	2799	5628*	8427*
Winter Magic	4331*	3843	8175*
Passerel Plus	2223	5801*	8024*
WMN97	2544	5458*	8003*
Jackson	2203	5237*	7440*
SS 76-30	1900	5450*	7350*
DH-3	1446	5587*	7034
Jumbo	2019	4995*	7014
TetraPro	1898	4328	6226
Forage Max	2955	2186	5142
LSD (P=.05)	1047	1236	1610
CV (%)	24	15	13

TABLE 3: Yield of cool-season annual grass varieties during 2007 – 08 at the Middle Tennessee Research and Education Center in Spring Hill.

Variety	Yield (lb DM/acre)		
	April 18	June 05	Total
Marshall	7763*	2706*	10470*
WMN97	7468*	2671*	10140*
ME4	6899*	3052*	9952*
Jackson	6898*	3031*	9929*
TetraPro	6486	3246*	9732*
Winter Magic	6985*	2063	9049
Passerel Plus	6292	2752*	9044
Jumbo	5614	3392*	9007
ME-94	6442	2386	8828
DH-3	5540	2626	8166
Forage Max	6244	707	6952
SS 76-30	4641	1943	6584
LSD (P=.05)	1002	744	1217
CV (%)	9	17	8

* yielded statistically the same as the top yielding variety



TABLE 4: Variety Information

Variety	Species	Company	Commercially available
DH-3	Annual Ryegrass	Allied Seed	Yes
Jackson	Annual Ryegrass	The Wax Company	Yes
Jumbo	Annual Ryegrass	Barenbrug	Yes
Marshall	Annual Ryegrass	The Wax Company	Yes
ME4	Annual Ryegrass	The Wax Company	No
ME-94	Annual Ryegrass	The Wax Company	No
Passerel Plus	Annual Ryegrass	Pennington Seed	Yes
TetraPro	Annual Ryegrass	American Grass Seed Producers	Yes
WMN97	Annual Ryegrass	The Wax Company	No
Forage Max	Wheat	TN Farmer's Co-op	Yes
SS 76-30	Oats	TN Farmer's Co-op	Yes
Winter Magic	Rye	TN Farmer's Co-op	Yes

This and other useful forage information can be found at the University of Tennessee forages web site.

<http://forages.tennessee.edu/>