



2008 Cool Season Perennial Grass Variety Trial Report

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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 tall fescue grass varieties during 2008 at the Middle Tennessee Research and Education Center in Spring Hill. Planted Sept. 2007.

Variety	Yield (lb DM/acre)			
	April 18	June 5	Oct 21	Total
Select	1098*	3544*	2678*	7322*
Jesup Max Q	860*	3508*	3112*	7481*
Cowgirl	696	4022*	2465*	7184*
ERF 48	745	3752*	2913*	7411*
BAR FA MT9301	692	4218*	2445*	7355*
AMTF - 25	632	3918*	3357*	7908*
BAR FA BE9301A	849*	3778*	2854*	7482*
LSD (P=.05)	334	1012	932	1634
CV (%)	23	14	18	12

* yielded statistically the same as the top yielding variety



Table 2: Yield of tall fescue grass varieties during 2008 at the Plateau Research and Education Center in Crossville. Planted Sept. 2007.

Variety	Yield (lb DM/acre)		
	May 22	Oct. 22	Total
Select	6538*	1839	8377*
Jesup Max Q	5679*	2404*	8084*
Cowgirl	5590*	1992	7582*
ERF 48	5362	2138*	7501*
BAR FA MT9301	5279	2282*	7562*
AMTF - 25	5098	2538*	7637*
BAR FA BE9301A	4716	2205*	6921
LSD (P=.05)	1025	402	1006
CV (%)	10.5	10	7

* yielded statistically the same as the top yielding variety

Table3: Yield of orchardgrass varieties during 2008 at the Middle Tennessee Research and Education Center in Spring Hill. Planted Sept. 2007.

Variety	Yield (lb DM/acre)			
	April 18	June 5	Oct. 21	Total
Megabite	2951*	3014*	2047	8012*
AMOG-04	1985*	2413	2177*	6577
Persist	2240*	2651*	2597*	7488*
Endurance	2068*	2562	2424*	7055*
Benchmark Plus	1693	2687*	2183*	6564
B07.IC1	1867*	2499	2205*	6573
Ambrosia	1198	2740*	2097	6036
Olympia	1548	2790*	2137*	6475
Shiloh II	2289*	2764*	1912	6966*
Barlemas	1270	2737*	2014	6022
LSD (P=.05)	1200	416	467	1171
CV (%)	36	9	12	10

* yielded statistically the same as the top yielding variety

Table 4: Yield of orchardgrass varieties during 2008 at the Plateau Research and Education Center in Crossville. Planted Sept. 2007.

Variety	Yield (lb DM/acre)			
	May 22	Aug 11	Oct. 22	Total
Megabite	4711*	608*	665*	5984*
AMOG-04	3906	627*	867*	5401*
Persist	3554	644*	862*	5061*
Endurance	3532	527*	924*	4984*
Benchmark Plus	3419	608*	691*	4720
B07.IC1	3242	537*	888*	4667
Ambrosia	3180	489*	848*	4518
Olympia	3171	743*	730*	4645
Shiloh II	3156	763*	842*	4762*
Barlemas	2575	618*	697*	3891
LSD (P=.05)	769	395	357	1223
CV (%)	13	37	25	14

* yielded statistically the same as the top yielding variety

Table 5: Yield of other cool-season perennial grass varieties during 2008 at the Middle Tennessee Research and Education Center in Spring Hill. Planted Sept. 2007.

Variety	Yield (lb DM/acre)			
	April 18	June 5	Oct. 21	To Date
Derby timothy	2360*	3901*	819*	7080
Spring Green festolium	4426*	4169*	245	8841*
Remington ryegrass	3856*	4646*	850*	9354*
Piccolo timothy	1032	2734	367	4134
HB-124 bluegrass	205	1593	1303*	3102
LSD (P=.05)	799	1388	873	1235
CV (%)	17	21	64	10

* yielded statistically the same as the top yielding variety



Table 6: Yield of other cool-season perennial grass varieties during 2008 at the Plateau Research and Education Center in Crossville. Planted Sept. 2007.

Variety	Yield (lb DM/acre)		
	May 22	Oct. 22	Total
Derby timothy	7012*	1664*	8677*
Spring Green festolium	6937*	713	7651*
Remington ryegrass	5782*	775	6558
Piccolo timothy	2212	360	2573
HB-124 bluegrass	1712	1402*	3114
LSD (P=.05)	1265	530	1616
CV (%)	14	28	15

* yielded statistically the same as the top yielding variety

Table 7: Yield of other cool-season perennial grass varieties during 2008 at the East Tennessee Research and Education Center in Knoxville. Planted Sept. 2007.

Variety	Yield (lb DM/acre) May 22
Derby timothy	5243*
Spring Green festolium	6466*
Remington ryegrass	3725
Piccolo timothy	2529
HB-124 bluegrass	4631*
LSD (P=.05)	2237
CV (%)	26

* yielded statistically the same as the top yielding variety



Table 8: Variety Information

Variety	Species	Supplier	Commercially Available
Select	Tall Fescue	Allied Seed/TN CO-OP	Y
Jesup Max Q	Tall Fescue	Pennington Seed	Y
Cowgirl	Tall Fescue	Rose Agri-Seed	Y
ERF 48	Tall Fescue	Pro Seeds/Turner Seed	N
BAR FA MT9301	Tall Fescue	Barenbrug	N
AMTF - 25	Tall Fescue	AMPAC Seed	N
BAR FA BE9301A	Tall Fescue	Barenbrug	N
Megabite	Orchardgrass	Rose Agri-Seed	Y
AMOG-04	Orchardgrass	AMPAC Seed	N
Persist	Orchardgrass	Smith Seed	Y
Endurance	Orchardgrass	DLF international Seeds	Y
Benchmark Plus	Orchardgrass	FFR Cooperative/TN CO-OP	Y
B07.IC1	Orchardgrass	Blue Moon Farm LLC.	N
Ambrosia	Orchardgrass	American Grass Seed Producers	Y
Olympia	Orchardgrass	Pennington Seed	Y
Shiloh II	Orchardgrass	Pro Seeds/Turner Seed	Y
Barlemas	Orchardgrass	Barenbrug	Y
Derby	Timothy	FFR Cooperative/TN CO-OP	Y
Piccolo	Timothy	Pro Seeds/Turner Seed	Y
Spring Green	Festolium	Rose Agri-Seed	Y
Remington	Perennial Ryegrass	Barenbrug	Y
HB-124	TX x KY Bluegrass	The Scott's Company	N

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

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

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