



## 2010 Tall Fescue Report

### Research Report 11-10

*Dr. Gary Bates, Forage Specialist*

*Joe Beeler, Research Associate*

*David McIntosh, Graduate Student*

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. The data in the following tables were determined using plot design and experimental techniques. This study was conducted using a randomized complete block design with 3 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 tall fescue grass varieties at the Plateau Research and Education Center in Crossville.**

Variety	Yield ton DM/acre					
	2008 Total	2009 Total	2010			3 Year Total
			May 5	Oct 20	Total	
Cowgirl	3.79*	2.64*	1.27	1.87*	3.13*	9.56*
Select	4.19*	2.52*	1.50*	1.87*	3.37*	10.07*
BAR FA MT9301	3.78*	2.54*	1.20	1.80*	3.00	9.32*
BAR FA BE9301A	3.46	2.58*	1.13	1.93*	3.07*	9.11
ERF 48	3.75*	2.57*	1.63*	1.97*	3.60*	9.92*
Jesup Max Q	4.04*	2.41*	1.27	1.80*	3.07*	9.52*
AMTF-25	3.82*	2.44*	1.33*	1.87*	3.20*	9.46*
LSD P=.05	0.50	0.42	0.36	0.27	0.54	0.89
CV %	7	9	15	8	10	5
* yielded statistically the same as the top-yielding variety						
Nitrogen Application: 60 lb/acre at green-up, and 30 lb/acre after first cut, 60 lb/acre in September						
Planted September 20, 2007						

**Table 2: Yield of tall fescue grass varieties at the Middle Tennessee Research and Education Center in Spring Hill.**

Variety	Yield ton DM/acre					
	2008 Total	2009 Total	2010			3 Year Total
			May 6	Dec 2	Total	
Cowgirl	3.59*	2.72*	2.07*	0.57*	2.63*	8.94*
Select	3.66*	2.22	1.73*	0.40*	2.13*	8.01*
BAR FA MT9301	3.68*	2.17	1.77*	0.43*	2.20*	8.05*
BAR FA BE9301A	3.74*	2.53*	1.57	0.33*	1.90*	8.18*
ERF 48	3.70*	2.94*	2.03*	0.53*	2.57*	9.22*
Jesup Max Q	3.74*	2.19	2.07*	0.33*	2.40*	8.33*
AMTF-25	3.96*	2.69*	2.13*	0.47*	2.60*	9.24*
LSD P=.05	0.82	0.66	0.56	0.27	0.76	1.76
CV %	12	15	16	35	18	12
* yielded statistically the same as the top-yielding variety						
Nitrogen Application: 60 lb/acre at green-up, and 30 lb/acre after first cut, 60 lb/acre in September						
Planted September 19, 2007						

**Table 3: Yield of tall fescue grass varieties at the Research and Education Center at Greeneville.**

Variety	Yield ton DM/acre				
	2009 Total	2010			2 Year Total
		Apr 28	Oct 26	Total	
Cowgirl	5.62	1.36*	1.42*	2.79*	8.41
Select	6.45*	1.33*	1.81*	3.14*	9.59*
ERF 48	7.40*	1.45*	1.63*	3.08*	10.48*
Jesup Max Q	5.96	1.08	1.17	2.24	8.20
GA-186	6.39*	1.06	1.26	2.32	8.71
GA-593R	5.90	1.00	1.18	2.18	8.09
Cajun II	5.92	1.22*	1.33	2.55	8.47
AGRFA 144	6.06	1.34*	1.38	2.72*	8.78
AGRFA 150	6.05	0.89	1.14	2.03	8.09
AGRFA 152	5.70	1.06	1.77*	2.84*	8.54
TF-25 (Goliath)	5.63	1.27*	1.34	2.61*	8.23
LSD P=.05	1.31	0.36	0.40	0.54	1.42
CV %	12.61	18	17	12	10
* yielded statistically the same as the top-yielding variety					
Nitrogen Application: 60 lb/acre at green-up, 30 lb/acre after first cut, and 60 lb/acre in September					
Planted September 22, 2008					

**Table 4: Yield of tall fescue grass varieties at the Research and Education Center at Milan.**

Variety	Yield ton DM/acre				
	2009 Total	2010			2 Year Total
		Apr 20	Jun 8	Total	
Cowgirl	2.97*	0.67	1.75	2.41	5.38*
Select	2.99*	0.90*	1.75	2.65	5.63*
ERF 48	2.98*	0.87*	1.51	2.37	5.35*
Jesup Max Q	2.89	0.80*	1.55	2.35	5.24
GA-186	2.98*	0.80*	1.65	2.45	5.43*
GA-593R	2.89	0.77*	1.75	2.52	5.41*
Cajun II	3.04*	0.90*	1.56	2.46	5.50*
AGRFA 144	3.02*	0.90*	1.70	2.60	5.62*
AGRFA 150	3.43*	0.83*	1.75	2.59	6.01*
AGRFA 152	3.02*	0.83*	1.59	2.42	5.44*
TF-25 (Goliath)	3.38*	0.97*	1.71	2.68	6.05*
LSD P=.05	0.52	0.25	0.35	0.48	0.784
CV %	9.99	17	12	11	8.29
* yielded statistically the same as the top-yielding variety					
Nitrogen Application: 60 lb/acre at green-up, 30 lb/acre after first cut, and 60 lb/acre in September					
Planted September 29, 2008					

**Table 5: Yield of tall fescue grass varieties at the East Tennessee Research and Education Center at Knoxville.**

Variety	Yield ton DM/acre		
	2010		
	May 5	Oct 22	Total
GA-29	1.62*	0.83*	2.45
TF0202	1.34	0.80*	2.14
Jesup MaxQ	1.52*	0.83*	2.36
AgR1502	1.06	0.94*	2.01
Agr1521	1.51*	1.03*	2.54*
HyMark	1.70*	0.87*	2.57*
Select	1.38	0.77	2.15
Drover	1.56*	0.89*	2.45
BarOptima Plus E34	1.36	0.69	2.05
BarElite	1.32	1.01*	2.33
Bardurum	1.23	0.67	1.90
Brava INTA	1.93*	1.05*	2.98*
Palenque Plus INTA	1.88*	0.94*	2.82*
LSD P=.05	0.43	0.28	0.48
CV %	17	19	12
* yielded statistically the same as the top-yielding variety			
Nitrogen Application: 60 lb/acre at green-up, 30 lb/acre after first cut, and 60 lb/acre in September			

Planted September 30, 2009

**Table 6: Variety Information**

Variety	Supplier	Commercially Available
AGRFA 144	Ag Research USA Limited	No
AGRFA 150	Ag Research USA Limited	No
AGRFA 152	Ag Research USA Limited	No
Brava INTA	Allied Seed	No
Select	Allied Seed	Yes
Palenque Plus INTA	Allied Seed	No
TF-25(Goliath)	AMPAC Seed	No
AMTF-25	AMPAC Seed	No
BAR FA MT9301	Barenbrug	No
BarOptima PLUS E34	Barenbrug	Yes
Bardurum	Barenbrug	Yes
BarElite	Barenbrug	Yes
Drover	Barenbrug	Yes
HyMark	Fraser Seeds	Yes
TF202	FFR Cooperative	No
Jesup Max Q	Pennington Seed	Yes
Cowgirl	Rose Agri-Seed	Yes
Cajun II	Smith Seed	Yes
ERF 48	Turner Seed/ Pro Seeds	No
GA-29	University of Georgia	No
GA-186	University of Georgia	No
GA-593R	University of Georgia	No
AgR1502	University of Kentucky	No
Agr1521	University of Kentucky	No

**This and other useful information can be found at your local extension office, or at our website.  
<http://forages.tennessee.edu>**

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