



2011 Red Clover Report

Research Report 12-6

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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 red clover varieties at the Research and Education Center at Greeneville.

Variety	Yield (ton DM/acre)					
	2010 Total	2011			2 Year Total	
		May 11	Jun 15	Jul 14		Total
Ga-9908	4.07*	1.91*	2.06*	0.57*	4.55*	8.62*
Emerald	3.90*	1.85*	1.77*	0.57*	4.19*	8.08*
Cinnamon Plus	3.96*	1.83*	1.72*	0.59*	4.14*	8.10*
CW 30091	3.75*	1.87*	1.96*	0.66*	4.49*	8.24*
PGI 33	3.79*	1.64*	1.56*	0.63*	3.82	7.62
LS 9703	3.76*	1.68*	2.01*	0.71*	4.40*	8.15*
Freedom!	4.31*	1.93*	1.78*	0.64*	4.35*	8.67*
CW202	3.86*	1.87*	1.69*	0.70*	4.26*	8.12*
FLMD	4.04*	1.68*	1.73*	0.40	3.81	7.85*
Freedom!MR	4.06*	1.69*	2.06*	0.64*	4.39*	8.45*
LSD P=.05	0.67	0.33	0.55	0.22	0.68	1.03
CV %	10	11	17	21	9	7
* yielded statistically the same as the top-yielding variety						
Planted September 30, 2009						

Table 2: Yield of red clover varieties at the East Tennessee Research and Education Center in Knoxville.

Variety	Yield (ton DM/acre)					
	2010 Total	2011			2 Year Total	
		May 10	Jun 14	Jul 20		Total
Ga-9908	3.19*	1.20*	0.74*	1.01*	2.95*	6.14*
Emerald	3.06*	1.49*	0.74*	1.00*	3.23*	6.30*
Cinnamon Plus	2.99*	1.42*	0.76*	1.08*	3.26*	6.25*
CW 30091	3.10*	1.36*	0.60*	0.85*	2.82*	5.92*
PGI 33	2.91*	1.10*	0.65*	0.92*	2.67*	5.58*
LS 9703	2.89*	1.44*	0.67*	0.86*	2.97*	5.86*
Freedom!	3.04*	1.46*	0.70*	0.86*	3.02*	6.06*
CW202	2.97*	1.32*	0.55*	0.81*	2.69*	5.66*
FLMD	3.08*	0.80	0.75*	0.36*	1.90	4.98
Freedom!MR	3.32*	1.23*	0.73*	0.95*	2.90*	6.22*
LSD P=.05	0.57	0.51	0.21	0.27	0.71	0.91
CV %	11	23	17	18	15	9
* yielded statistically the same as the top-yielding variety						
Planted September 30, 2009						

Table 3: Variety Information

Variety	Supplier	Commercially Available
Ga-9908	University of Georgia	Yes
Emerald	Cal/ West Seeds	Yes
Cinnamon Plus	Allied Seeds	Yes
CW 30091	Cal/ West Seeds	No
PGI 33	Producer's Choice Seeds	Yes
LS 9703	Lewis Seed Company	Yes
Freedom!	Barenbrug USA Seeds	Yes
CW202	Cal/ West Seeds	No
FLMD	Barenbrug USA Seeds	Yes
Freedom!MR	Barenbrug USA Seeds	Yes

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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