2022 Red and White Clover Report



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Introduction

PR-816

Red clover (*Trifolium pratense L.*) is a high-quality, short-lived perennial legume used in mixed or pure stands for pasture, hay, silage, green chop, soil improvement, and wildlife habitat. This species is adapted to a wide range of climatic and soil conditions. Stands of improved varieties generally are productive for 2½ to 3 years, with the highest yields occurring in the year following establishment. Red clover is used primarily as a renovation legume for grass pastures and hay fields. It is a dominant forage legume in Kentucky because it is relatively easy to establish and has high forage quality, yield, and animal acceptance.

White clover (*Trifolium repens L.*) is a low-growing, perennial pasture legume with white flowers. It differs from red clover in that the stems (stolons) grow along the surface of the soil and can form adventitious roots that lead to the development of new plants. Three types of white clover

Table 1.	Temper	ature an	d rainfa	ll at Lexir	igton, Ke	entucky,	in 2020,	2021, ar	nd 2022.			
		20	020			20	21			20	22 ²	
	Temp	erature	Ra	ainfall	Tempe	erature	Ra	infall	Tempe	rature	Ra	infall
	°F	DEP ¹	IN	DEP	°F	DEP	IN	DEP	°F	DEP	IN	DEP
JAN	40	+9	3.72	+0.86	34	+3	4.51	+1.65	29	-2	4.93	+2.07
FEB	38	+3	5.14	+1.93	31	-4	4.60	+1.39	38	+3	7.69	+4.48
MAR	51	+7	3.79	-0.61	50	+6	5.12	+0.72	49	+5	4.27	-0.13
APR	52	-3	4.92	+1.04	54	-1	2.72	-1.16	55	0	3.71	-0.17
MAY	62	-2	5.69	+1.22	62	-2	4.34	-0.13	69	+5	3.84	-0.63
JUN	72	0	2.56	-1.10	73	+1	6.26	+2.60	76	+4	2.10	-1.56
JUL	79	+3	3.23	-1.77	75	-1	5.90	+0.90	80	+4	6.46	+1.46
AUG	75	0	3.41	-0.52	76	+1	6.16	+2.23	77	+2	4.27	+0.34
SEP	68	0	4.43	-+0.83	69	+1	3.03	-0.17	70	+2	1.50	-1.70
OCT	57	0	4.98	+2.41	62	+5	4.64	+2.10	57	0	0.96	-1.61
NOV	49	+4	2.18	-1.21	43	-2	2.13	-1.26				
DEC	36	0	2.27	-1.71	47	+11	4.41	+0.43				
Total			45.92	+1.37			53.85	+9.30			39.73	+2.55

¹DEP is departure from the long-term average. ²2022 data is for ten months through October.

grow in Kentucky: Dutch, intermediate, and ladino. Dutch white clover, sometimes called "common," naturally occurs in many Kentucky pastures and even lawns. It is generally long lived and reseeds readily, but its small leaves and low growth habit result in low forage yield. The intermediate type is a cross between ladino and Dutch white clover and has been developed to give higher yields than the Dutch type and to persist better than the ladino type under frequent or continuous grazing conditions. Ladino white clover has larger leaves and taller growth than the intermediate and

	Seedling			Pe	rcent Sta	nd					Yiel	d (tons/a	cre)		
Variety	Vigor ¹	20	20	20	21		2022		2020	2021		20	22		3-year
	June 3, 2020	Jun 3	Sep 24	Mar 24	Sep 29	Mar 22	Jul 12	Aug 15	Total	Total	May 13	Jun 14	Jul 12	Total	Total
Commercial Varieties	-Available for Fa	arm Use													
Freedom!	4.3	100	100	99	97	94	89	60	2.71	7.48	1.08	1.00	0.29	2.37	12.56*
SS0303RCG	3.9	100	100	100	96	92	91	50	2.78	7.45	1.05	0.73	0.30	2.07	12.30*
Gallant	3.8	96	97	97	96	91	83	53	2.55	7.67	0.85	0.70	0.25	1.80	12.01*
Kenland (certified)	3.9	98	98	99	94	88	69	25	2.72	6.92	1.09	0.78	0.24	2.10	11.74*
Blaze	4.6	98	98	98	97	93	90	51	2.46	7.18	0.96	0.77	0.25	1.98	11.62*
GA9908	3.9	96	96	98	88	74	56	11	2.83	6.90	0.96	0.64	0.20	1.81	11.54
Robust III	3.3	97	97	98	92	84	71	35	2.43	6.63	0.84	0.70	0.20	1.75	10.82
Renegade	4.6	100	100	100	79	53	26	3	2.69	6.93	0.64	0.46	0.10	1.20	10.81
Redkin	2.5	45	53	53	68	53	60	25	1.76	6.89	0.83	0.51	0.22	1.57	10.21
Barduro	4.0	100	99	99	60	20	2	2	2.40	5.93	0.30	0.21	0.00	0.51	8.84
Rustler	4.5	100	100	100	30	18	6	2	2.16	6.00	0.31	0.24	0.02	0.57	8.73
Common O	4.8	99	98	98	20	13	5	1	2.07	5.92	0.25	0.22	0.06	0.52	8.52
Experimental Varietie	es														
CW040040	3.9	97	98	98	96	93	91	51	2.78	7.69	1.15	0.89	0.26	2.30	12.78*
ISTP12	4.5	100	100	100	94	76	51	11	2.97	6.96	1.00	0.75	0.19	1.94	11.86*
BARTP10	3.6	97	97	97	96	71	78	36	2.41	7.00	0.82	0.78	0.22	1.82	11.24
GATP1412	2.3	77	87	91	88	76	48	19	2.35	7.29	0.83	0.54	0.16	1.54	11.17
CW30091	2.3	83	86	90	83	63	55	20	2.22	7.16	0.72	0.64	0.18	1.54	10.92
GATP1403	-	_	25	28	26	25	33	14	1.32	6.17	0.72	0.36	0.14	1.22	9.67
Mean	3.8	94	90	91	78	65	56	26	2.45	6.90	0.80	0.61	0.18	1.59	11.00
CV,%	15.0	6	4	4	11	16	24	43	13.66	8.18	23.62	22.83	25.82	18.61	7.61
LSD,0.05	0.8	9	6	5	13	14	19	16	0.49	0.80	0.27	0.20	0.07	0.42	1.22

¹Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.

*Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Agricultural Kentucky Tobacco Research and Development Center | Veterinary Diagnostic Laboratory | Division of Regulatory Services | Research and Education Center Experiment Station Robinson Forest | Robinson Center for Appalachian Resource Sustainability | University of Kentucky Superfund Research Center | Equine Programs

Table 3. Dry matter yiel	ds, seedling vigor, and	d stand persistence	e of red clover varie	ties sown April 4, 20	22, at Lexington, Ke	ntucky.	
	Seedling	Percei	nt Stand		Yield (t	ons/acre)	
Variety	Vigor ¹	2	022		2	022	
	May 25, 2022	May 25	Sep 22	Jul 12	Aug 12	Sep 15	Total
Commercial Varieties-A	vailable for Farm Use						
Freedom!	4.1	97	96	1.16	1.08	0.64	2.88*
Gallant	3.5	97	98	1.06	1.03	0.67	2.76*
Kenland (certified)	4.3	99	98	1.01	0.95	0.63	2.58*
GA9908	3.5	96	96	1.09	0.93	0.55	2.56*
SS0303RCG	3.8	93	98	0.98	0.95	0.62	2.54*
Common O	4.1	98	96	0.81	0.86	0.46	2.13
Blaze	3.9	98	96	0.75	0.72	0.54	2.01
Experimental Varieties							
BARTP10	3.8	98	98	1.07	1.01	0.61	2.69*
20-LA-RC-1	3.6	96	96	1.05	1.01	0.55	2.61*
CW040040	4.0	98	98	0.90	0.96	0.57	2.44*
RC08	3.5	97	99	0.89	0.90	0.56	2.35*
ISTP12	4.0	98	98	0.82	0.94	0.57	2.33*.
BARTPV23	3.6	96	96	0.77	0.80	0.50	2.07
BY-RC31	4.3	98	98	0.76	0.76	0.47	1.99
GA-RXS	3.6	97	97	0.67	0.71	0.48	1.86
CW30091	2.6	58	60	0.73	0.64	0.43	1.80
PSTCLVR20825	2.8	88	89	0.40	0.75	0.39	1.54
GATP1412	2.3	68	73	0.58	0.52	0.39	1.49
BARTSRWR	2.5	91	91	0.53	0.55	0.37	1.46
PSTCLVR98121	3.5	95	96	0.44	0.61	0.37	1.42
Mean	3.4	89	89	0.80	0.81	0.50	2.11
CV,%	21.8	7	6	28.42	26.66	23.46	25.23
LSD,0.05	1.1	9	7	0.32	0.30	0.17	0.75

¹Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.

*Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Dutch types and is the highest yielding of the three white clover types but requires rotational grazing to maintain stands. Information on the grazing tolerance of white clover varieties can be found in the 2022 Alfalfa, Red Clover and White Clover Grazing Tolerance Report (PR-822).

Yield and persistence of red and white clover varieties are dependent on environment and pressure from diseases and insects. The most common red clover diseases in Kentucky are southern anthracnose, powdery mildew, sclerotinia crown rot, and root rots. For white clover, the most common pests are stolon rots, root rots, and potato leafhoppers. High yield and persistence (as measured by percent stand) are two indications that a specific red or white clover variety is resistant to or tolerant of these pests when grown in Kentucky.

This report provides current yield and persistence data on red and white clover

varieties included in yield trials in Kentucky as well as guidelines for selecting clover varieties. Tables 7 and 8 show a summary of all clover varieties tested in Kentucky for the past 16 years. The UK Forage Extension website (https://forages.ca.uky.edu) contains electronic versions of all forage variety testing reports from Kentucky and surrounding states and a large number of other forage publications.

Table / D		ialda	coodling		and stand	noveleton co	f white claver	wariatios sour A		2020	at Loving	***	Kontuck	
Table 4. Di	ry matter y	ieius,	seeuiing	i vigor	, anu stanu	persistence	Ji wille clover	varieties sowii P	ipin 5	, 2020	, at Lexing	yton,	, Rentucky	۶.

-	Soodling		-	Percen	t Stand					Yie	ld (tons/a	cre)		
Variety	Vigor ¹	20	20	20	21	20	22	2020	2021		20	22		3-vear
	June 3, 2020	Jun 3	Sep 24	Mar 24	Sep 29	May 4	Sep 22	Total	Total	May 25	Aug 12	Sep 15	Total	Total
Commercial V	arieties-Availabl	e for Farm	Use											
Will	3.8	96	97	98	100	95	95	1.78	4.75	0.66	0.46	0.24	1.36	7.88*
RegalGraze	4.6	98	99	99	100	63	84	1.92	4.68	0.42	0.44	0.18	1.05	7.65*
Dusi	3.8	97	97	98	100	76	91	1.91	4.75	0.35	0.36	0.16	0.87	7.53*
Neches	4.1	97	97	97	100	90	90	1.49	4.44	0.69	0.34	0.24	1.26	7.19*
Alice	3.1	98	98	98	100	89	94	1.80	4.12	0.54	0.44	0.22	1.20	7.12*
Cresendo	4.8	98	98	99	100	56	89	1.69	4.38	0.46	0.35	0.20	1.01	7.08*
Patriot	3.0	89	91	94	100	76	78	1.53	4.47	0.42	0.40	0.21	1.03	7.03
Apis	3.8	97	99	99	100	94	94	1.80	4.06	0.57	0.38	0.20	1.15	7.00
Rampart	2.5	75	91	91	100	80	91	1.23	4.10	0.47	0.37	0.20	1.03	6.37
Durana	2.5	89	96	97	100	88	86	1.22	3.83	0.43	0.31	0.21	0.96	6.01
Experimental	Varieties													
GATR16178	3.5	98	100	99	100	61	70	1.69	4.58	0.44	0.44	0.23	1.10	7.38*
CW9501	2.8	74	79	85	100	48	60	1.40	4.85	0.38	0.41	0.19	0.98	7.24*
Mean	3.5	92	95	96	100	76	85	1.62	4.42	0.49	0.39	0.21	1.08	7.12
CV,%	18.6	9	6	5	0	19	14	12.07	10.11	30.59	20.54	28.02	21.39	8.10
LSD,0.05	0.9	12	8	6	0	21	17	0.28	0.64	0.21	0.12	0.08	0.33	0.83

¹Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.

*Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Important Selection Considerations

Local adaptation and persistence. The variety should be adapted to Kentucky as indicated by superior performance across years and locations in replicated yield trials, such as those reported in this publication. High-yielding varieties are generally also those varieties that are the most persistent. Improved red clover generally produces measurable yields for 2½ to 3 years, with the year of establishment considered as the first year. The highest yields occur in the year following establishment. White clover may persist longer than red clover, particularly in wet seasons, and has the ability to reseed even under grazing.

Seed quality. Buy premium-quality seed that is high in germination and purity and free from weed seed. Buy certified seed or proprietary seed of an improved variety. An improved variety is one that has performed well in independent trials, such as those reported in this publication. Other information on the label will include the test date (which must be within the previous nine months), the level of germination, and percentage of other crop and weed seed. Order seed well in advance of planting time to assure that it will be available when needed.

Description of the Tests

This report summarizes studies at Lexington (two in 2020 and one in 2022). The soil at Lexington (Maury) is a well-drained silt loam. All are well-suited to clover production. Plots were 5 feet by 20 feet in a randomized complete block design with four replications with a harvested plot area of 5 feet by 15 feet.

Seedings were made at 12 pounds per acre for red clover and 3 pounds per acre for white clover into a prepared seedbed using a disk drill. The first cutting in the seeding year was delayed to allow the clover to completely reach maturity as indicated by full bloom, which generally occurs about 60 to 90 days after seeding. Otherwise, harvests were taken when the clover was in the bud to early flower stage using a sickle-type forage plot harvester. Fresh weight samples were taken at each harvest to calculate percent dry matter production. All tests for establishment, fertility (P, K, and lime based on regular soil tests), and harvest management were managed according to University of Kentucky Cooperative Extension Service recommendations. Weeds

were controlled to avoid limiting production and persistence.

Results and Discussion

Weather data for Lexington is presented in Table 1.

Yield data (on a dry matter basis) are presented in tables 2 through 4. Yields are given by cutting date for 2022 and as total annual production. Varieties are listed in order from highest to lowest total production (for the life of the test). Experimental varieties are listed separately at the bottom of the tables and are not available commercially.

Statistical analyses were performed on all clover data (including experimental varieties) to determine whether the apparent differences are truly due to variety. Varieties not significantly different from the top variety within a column are marked with one asterisk (*). To determine if two varieties are truly different, compare the difference between the two varieties with the least significant difference (LSD) at the bottom of the column. If the difference is equal to or greater than the LSD, the varieties are truly different when grown under the conditions at a given location. The coefficient of variation (CV), which is a measure of the variability of the data, is included for each column of means. Low variability is desirable, and increased variability within a study results in higher CVs and larger LSDs.

Certified Kenland continues to rank near the top of tests. It is important to note yield differences between certified and uncertified Kenland red clover. Most Kenland offered for sale is uncertified and is likely common or VNS seed falsely advertised as Kenland. Our tests show uncertified Kenland is significantly lower in yield than certified Kenland. White clover varieties, as managed in these trials, yielded less than most red clover varieties but were more persistent. Again, certified seed of improved varieties is recommended.

In addition to the commercially available varieties and experimental lines, selected "common" red clovers are included in the variety tests for comparison. Common red clover, generally sold as "medium red clover variety unknown," is unimproved red clover with unknown performance. Several years of testing show only about one out of every 10 common red clovers is as productive as certified or proprietary red clovers. In Kentucky, the average yield advantage

Table 5. Proprietors of red clover varieties in current trials in Kentucky.

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Variety	Proprietor/ KY Distributor
Commercial Varieties-Ava	ailable for Farm Use
Barduro	Barenbrug USA
Blaze	Mountain View Seeds
Common O	Public
Freedom!	Barenbrug USA
Gallant	Turner Seed
GA9908	Smith Seed
Kenland (certified)	KY Agric. Exp. Station
Redkin	DLF Pickseed
Renegade	DLF Pickseed
Robust III	Blue Moon Farms
Rustler	Oregro Seeds
SS-0303RCG	Southern States
Experimental Varieties ¹	
BARTP10	Barenbrug USA
BARTPV23	Barenbrug USA
BARTSRWR	Barenbrug USA
BY-RC31	BrettYoungSseeds
CW040040	Barenbrug USA
CW30091	Barenbrug USA
IS-TP-12	DLF Pickseed
GA-RXS	Univ. of GA
GATP1403	Univ. of GA
GATP1412	Univ. of GA
PSTCLVR20825	Caldbeck Consulting
PSTCLR98121	Caldbeck Consulting
RC08	Bailey Seed & Grain
20-LA-RC-1	Ampac Seed

¹Experimental varieties are not available commercially, but provide an indication of the progress being made by forage breeding companies.

Table 6. Proprietors and clover type information of white clover varieties in current trials in Kentucky.

Variety	Туре	Proprietor/KY Distributor
Commercial V	arieties-Availab	le for Farm Use
Alice	Intermediate	Barenbrug
Apis	Ladino	Smith Seed
Cresendo	Ladino	Barenbrug USA
Durana	Intermediate	Pennington
Dusi	Ladino	Barenbrug USA
Neches	Intermediate	Barenbrug USA
Patriot	Intermediate	Pennington
RegalGraze	Ladino	Cal/West Seed
Rampart	Ladino	Oregro Seeds
Will	Ladino	Allied Seed, L.L.C.
Experimental	Varieties ¹	
CW9501	Ladino	Barenbrug USA
GATR16178	Intermediate	Univ. of GA

¹Experimental varieties are not available commercially, but provide an indication of the progress being made by forage breeding companies. of seeding improved red clover varieties compared to common types is 3 tons to 6 tons higher of dry matter/acre over the life of the stand.

Tables 5 and 6 show information about proprietors/distributors for all varieties included in the tests discussed in this report. Varieties are listed in alphabetical order, with the experimental varieties at the bottom. Experimental varieties are not available for farm use, but commercial varieties can be purchased from dealerships. Look at data from several years and locations when choosing a variety of clover rather than results from one test year, as is reported in tables 2 through 4. Make sure seed of the variety selected is properly labeled and will be available when needed.

How to Interpret the Summary Tables

Tables 7 and 8 are summaries of yield data from 2001 to 2022 of commercial varieties that have been entered in the Kentucky trials. The data is listed as a percentage of the mean of the commercial varieties entered in each specific trial. In other words, the mean for each trial is 100 percent—varieties with percentages over 100 yielded better than average, and varieties with percentages less than 100 yielded lower than average. Direct, statistical comparisons of varieties cannot be made using the summary tables 7 and 8, but these comparisons do help to identify varieties for further consideration. Varieties that have performed better than average over many years and at several locations have stable performance; others may have performed well in wet years or on particular soil types. These details may influence variety choice, and the information can be found in the yearly reports. See the footnotes in tables 7 and 8 to determine which yearly report should be referenced.

Summary

Red and white clovers can be productive components of pasture and hayfields. Choose varieties with proven performance in yield and persistence.

The following College of Agriculture publications related to the establishment, management, and harvesting of clover are available at local county Extension offices and are listed in the "Publications" section of the UK Forage website (https://forages. ca.uky.edu):

• Lime and Fertilizer Recommendations

(AGR-1)

- Producing Red Clover Seed in Kentucky (AGR-2)
- Grain and Forage Crop Guide for Kentucky (AGR-18)
- Renovating Hay and Pasture Fields (AGR-26)
- Growing Red Clover in Kentucky (AGR-33)
- Establishing Forage Crops (AGR-64)
- Inoculation of Forage Legumes (AGR-90)
- Growing White Clover in Kentucky (AGR-93)
- Weed Control Strategies for Alfalfa and Other Forage Legume Crops (AGR-148)
- Insect Management Recommendations for Field Crops and Livestock (ENT-17)
- Managing Legume-Induced Bloat in Cattle (ID-186)
- Kentucky Plant Disease Management Guide for Forage Legumes (PPA-10D)
- "Emergency" Inoculation for Poorly Nodulated Legumes (PPFS-AG-F-04)

About the Authors

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Variety	Proprietor	211,2 2114	90	08	60	10	11	12	13	14 2vr	15 2 2 2 2 2 2	2 2 7	7	2 19	20	05	08 2vr	00	11	2 13 2 m	15 2 2 2 2	ہ 0 10	2 2 2	<u>م</u>	19	08	10 2%	(#trials)
AA117ER	ABI Alfalfa	ĥ	110	ĥ	r v	ĥ	ĥ	۶y1	ĥ	,		4 5	5		h -	7 8	ĥ	۶y1	r v		1	5			7	ĥ	ĥ	(a) (3) (3)
Barduro	Barenbrug USA											\square		86	82							73			83			81(4)
Bearcat	Brett Young Seeds										-	22	-							-		\vdash	-					Ì
Bigfoot	Preferred Alf. Genetics													97							-	07						101(2)
Blaze	Mountain View Seeds													10	7 108													108(2)
Cinnamon Plus	Southern States		109	112	123	117	94	116	101	98						112	102	102	100	100		1(33 10	8 124		108	122	108(18)
Common O	Public					96	97	63	84	92	70 4	6t	0 67	77	79					67	91	20		72	85		77	77(17)
CW9901	Barenbrug USA													10	~						-	15			109			109(3)
Dominion	Seed Research of OR		102							_	_	_				95	102			_	_	6	3			109		100(5)
Emarwan	Turf-Seed	91			117													106						66				103(4)
Evolve	DLF Pickseed USA										98	96 1(02								66							99(4)
FF9615	LaCrosse Seed										-	10 10	4								$\left \right $		-					107(2)
Freedom!	Barenbrug USA	118	9	100	108	106	109	66	101	97	07 1	14	3 10	7 11	116	136	107	116	95	107	04 1	24 1	9 10	6 115	133	100	140	112(28)
Freedom!MR	Barenbrug USA	102	114	114		112							=	7 126	10	101		108				32 1	-	128	115		125	112(13)
FSG 402	Allied Seed								104											114		-						108(2)
FSG 9601	Allied Seed	89										-										-						I
Gallant	Turner Seed								101	-	12	Ę	10	1 97	111					107	01 1	21						106(9)
GA9908	Smith Seed									$\left \right $		6	<u>س</u>	93	107					\vdash		92	\vdash	-	85			94(5)
huliet	Caudill Seed				84							\vdash					63	06								84	59	82(5)
Kenland (cert)	KY An Fxn Sta	117	117	66	111	66	116	114	109	103	05 1	19 1(10	7 10	109	60	113	106	106	115	00	13 1(10	4 173	110	110	138	110(28)
Kenland (uncert)	Dublic		:	:		6	2	-	2	8	- `` }	: : <u>-</u>	2		2	!	2	2	2	2	-	2	2			299	6	70/61
		5 D	,	1,01		70						-	_			105	; ;	2					2	5		3	72	105/01
		5 5								+		┼	+			2 3	1 1	1 2			╈	- ;						(0)001
Kenway	KY Ag.Exp Sta.	97	119	118						+		+	+	_		94	106	103			+	¥	33 97	+				104(8)
LS 9703	Lewis Seed							107				+	_							86		+	_					97(2)
Morning Star	Cal/West Seeds									+	+	+	+	_			90				+	+	+	_		6		90(2)
Plus II	Allied Seed			130								_	_									_	6	~				114(2)
Quinequeli	Caudill Seed				92													80									57	76(3)
Red Gold	Proseeds Marketing		81							_	_	_	_	_	_		89			_	_	_	_	_		102		91(3)
Red Gold Plus	Turner Seed	95																										I
Redkin	DLF Pickseed USA														94													I
Redland Max	ABI Alfalfa	95																										I
Renegade	DLF Pickseed USA														100													I
Robust	Blu Moon Farms											7	8															I
Robust II	Seed Research of OR																110									108		109(2)
Robust III	Seed Research of OR														100													I
Rocket	Seed Research of OR																106									108		107(2)
Rustler	Oregro Seeds			83		101	84								81								76	t 99			104	92(7)
Solid	Production Service		79													86							9					80(3)
SS-0303RCG	Southern States								-	103 1	1 09	50 1	7 10	2 93	114					103	04	04			80			107(11)
Starfire II	Cal/West & Ampac			101		111			-	107							112						=	0 112		115	111	110(8)
Triple Trust 350	ABI Alfalfa		101													92						6	2					95(3)
Wildcat	Brett Young Seeds				101													107						98				102(3)
¹ Year trial was esta	blished.												-	-														
² Use this summary	table as a guide in makin table as a guide in makin	g variet	ty dec	isions,	but rei	fer to :	specifi	c yearly	repor	ts to de	etermii	ne stati	istical c	lifferer art wo	id ha	forage	yield b	etwee	n varie	ties. To	o find a rt″arch	ictual y	ields, l	ook in t K Eorac	the year	rly repo	rt for the	final year
(https://forages.c	a.uky.edu).	2	5	5		2		5		-)	2		5		5				5	5	,					
³ Mean only presen	ted when respective varie	ity was	incluo	led in t	WO OL	more	trials.																					
⁴ Number of years (of data.																											

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Table 7. Summary of Kentucky red clover yield trials 2004-2022 (yield shown as a percentage of the mean of the named commercial varieties in the trial).

Table 8. Sumr	nary of Kentuck	y white clover yield trials	2002-	2022 (y	ield sh	own as	a perc	entage	e of the	emean	of the	comm	ercial	varieti	es in tl	ne trial)						_
			,							ے ا	exingto	E		-	-					Prir	Iceton	
Variety	Type	Proprietor	02 ^{1,2}	03	4	90	07	98	60	0	1	- 2	3	-	1	17	18	19	5	3	3	Mean ³
Advantage	ladino	Allied Seed, L.L.C.	3yr ⁴	3yr	3-yr	2-yr	2-yr 3	yr 2	yr 3	yr 3	yr 2)	r w	т Зу	2	r 3y	r 3yı	2-yi	r 3-y	r 3-y	r 3yr	3-yr	(#trials) _
Alice	Intermediate	Barenbrug USA								-	-		10	5 12	32 0	3 94	93	112	10		86	100(8)
Apis	1	Smith Seed Services							-			_						96	66			98(2)
Avoca	Dutch	DLF Pickseed				59															82	71(2)
Barblanca	Intermediate	Barenbrug USA		92																		1
Bombus	Ladino	Hood River													1	1 115						113(2)
Brianna	Ladino	DLF Pickseed													10	3 100						102(2)
CA ladino	Ladino	Public	100		124															103		109(3)
Colt	Intermediate	Seed Research of OR		90		57															114	87(3)
Common	Dutch	Public	100				53			38											78	82(4)
Companion	Ladino	Oregro Seeds					~	37 5	34 5	32								06				89(4)
Crescendo	Ladino	Cal/West Seeds	105			140													100		109	114(4)
Crusader II	Intermediate	Allied Seed, L.L.C.							51	30 5	5 5	4 7	2									67(4)
Excel	Ladino	Allied Seed, L.L.C.			100																	I
Domino	Ladino	Grassland Oregon											87	_								I
Durana	Intermediate	Pennington		94		94	88	32 8	35 5	5 26	3 8,	4 9	7 89	2	3 95	89	73	82	85	87	83	88(18)
Dusi	Ladino	Barenbrug USA																	10			I
GWC-AS10	Ladino	Ampac Seed								=	02											I
Insight	Ladino	Allied Seed, L.L.C.				128																I
lvory	Intermediate	Cebeco	96																			I
Ivory II	Intermediate	DLF Pickseed					86		1	01 1.	27											105(3)
Jumbo	Ladino	Ampac Seed	93									_	_				_		_			1
Il odmul	Ladino	Ampac Seed								-	21 10	-		õ								107(3)
Kakariki	Ladino	Luisetti Seeds										_	_		_	105						I
Kopu II	Intermediate	Ampac Seed	97			97	95 5	95 1	03 5	36	0 9	0										94(8)
KY Select	Intermediate	KY. Agric. Exp. Station								5	9.	ю			_							97(2)
Neches	Intermediate	Barenbrug USA					_	-	_	_	_	_	_	Ň			_	93	101	_	_	91(3)
Ocoee	Ladino	Allied Seed, L.L.C.				\neg			3	39 7	74		_	-								82(2)
Patriot	Intermediate	Pennington		103		87	104	13	95 1	17 1	17	8	2	õõ ~	5	0 93	92	88	66	104	9	98(18)
Pinnacle	Ladino	Allied Seed, L.L.C.				120															111	116(2)
Rampart	Ladino	Allied Seed, L.L.C.					~ 80	<u> </u>	3 76	ŝ		_	_					6	6			88(6)
Regal	Ladino	Public	66	96	92		125 1	00	16 1	18	29 14	7 12	m							107	10	113(12)
RegalGraze	Ladino	Cal/West Seeds				127	140 1	02 1	03					11	1 11	9 112	120	120	108	8		116(10)
Renovation	Intermediate	Smith Seed Services										_	80	8	6			66				90(4)
Resolute	Intermediate	Southern States				63			_				_		_							I
RIVENDEL	I	DLF Pickseed													5,	88						74(2)
Seminole	Ladino	Saddle Butte Ag. Inc			108	70	79		_	_	_	_	=	4	_		_		_	_	_	93(4)
Super Haifa	Intermediate	Allied Seed, L.L.C.			77							_										I
Tillman II	Ladino	Caudill Seed	103									_										I
WBDX	Dutch	Saddle Butte Ag. Inc				\neg			-		72	_	_									ı
Will	Ladino	Allied Seed, L.L.C.	107			162	150 1	32 1	07 1	19	37 13	0 12	3 14	3 14	0 14	0 102	122	2 122	=		136	128(17)
¹ Year trial was ² Use this sumn	established. nary table as a gui	ide in making variety decis	ions, bu	ut refer	to spec	ific year	ly repoi	rts to d	etermir	ne stati	stical di	fferend	tes in fo	irage y	ield bei	tween v	arietie	s. To fii	nd actu	ial yield	look	in the

yearly report for the final year of each specific trial. For example, the Lexington trial planted in the spring of 2010 was harvested years, so the final report would be "2012 Red and White Clover Report" archived in the UK Forage website at forages.ca.uky.edu. 3Mean only presented when respective variety was included in two or more trials. 4Number of years of data.



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