



2022 Timothy and Kentucky Bluegrass Report

G.L. Olson, S.R. Smith, T.D. Phillips, C.D. Teutsch, and J.C. Henning, Plant and Soil Sciences

Introduction

Timothy (*Phleum pratense*) is the fourth-most widely sown cool-season perennial grass used in Kentucky for forage—after tall fescue, orchardgrass, and Kentucky bluegrass. It is a late-maturing bunchgrass that is primarily harvested as hay, particularly for horses. It also can be used for grazing or wildlife habitat.

Management is similar to that for other cool-season grasses. Harvesting at the mid- to late boot stage is needed to assure good yields and high forage quality. The quality of timothy declines more rapidly after heading than other cool-season grasses. In Kentucky, timothy behaves like a short-lived perennial, with stands usually lasting two to three years.

Kentucky bluegrass (*Poa pratensis*) is a high-quality, highly palatable, long-lived pasture plant with limited use for hay. It tolerates close, frequent grazing better than most grasses. It has low yields and low summer production and becomes dormant and brown during hot, dry summers. Kentucky bluegrass is slow to establish.

This report provides maturity and yield data on timothy and Kentucky bluegrass varieties included in yield trials in Kentucky. Tables 11 and 12 show summaries of all timothy and Kentucky bluegrass varieties tested in Kentucky for the last 15 years. The UK Forage Extension website (<https://forages.ca.uky.edu>) contains forage variety testing reports from Kentucky and surrounding states and a large number of other forage publications.

Considerations in Selection

Local adaptation and seasonal yield.

Choose a variety that is adapted to Kentucky, as indicated by good performance across locations in replicated yield trials, such as those presented in this publication. Also, look for varieties that are productive in the desired season of use, whether for hay or grazing. Later-maturing varieties are desirable when timothy is grown in pure stands for hay; early maturing varieties

Table 1. Temperature and rainfall at Lexington, Kentucky, in 2020, 2021, and 2022.

	2020				2021				2022 ²			
	Temp		Rainfall		Temp		Rainfall		Temp		Rainfall	
	°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.

provide a better fit when timothy is grown in mixtures with legumes.

Seed quality. Buy premium-quality seed that is high in germination and purity and free from weed seed. Buy certified seed or proprietary varieties of seed of an improved variety. An improved variety is one that has performed well in independent trials such as those reported in this publication.

Description of the Test

Data from six studies are reported. Timothy varieties and Kentucky bluegrass varieties were sown at Lexington in 2019, 2020, and 2021 as part of the forage variety testing program. The soil at Lexington (Maury) is a well-drained silt loam and is well-suited for timothy and bluegrass production. Seedlings were made at the rate of 8 pounds per acre for timothy and 15 pounds per acre for Kentucky bluegrass into a prepared seedbed with a disk drill. 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. Nitrogen was applied at 60 pounds per acre of actual nitrogen in March, May, and August, for a total of 180 pounds/acre/year. The test was harvested using a sickle-type forage plot harvester leaving a 3-inch stubble to simulate a hay-management system. The first cutting was harvested

when spring growth of most varieties had reached the mid- to late boot stage. Subsequent harvests were taken when forage growth was adequate for harvest. Fresh weight samples were taken at each harvest to calculate dry matter production. Establishment, fertility (P, K, and lime based on regular soil tests), weed control, and harvest were managed according to University of Kentucky Cooperative Extension Service recommendations.

Results and Discussion

Weather data for Lexington are presented in Table 1. Maturity ratings (see Table 2 for maturity scale) and dry matter yields are reported in tables 3 through 8. Yields are given by harvest date for 2022 and as total annual production. Stated yields are adjusted for percent weeds; therefore, value listed is for crop only. Varieties are listed by descending total production. Experimental varieties, listed separately at the bottom of the tables, are not available commercially.

Statistical analyses were performed on all data to determine if the apparent differences are truly due to varietal differences. Varieties not significantly different from the top variety in the total yield column are marked with one asterisk (*). To determine if two varieties are significantly different, compare the difference between them to

the least significant difference (LSD) at the bottom of that column. If the difference is equal to or greater than the LSD, the varieties are significantly different when grown under those conditions. The coefficient of variation (CV) is a measure of the variability of the data and is included for each column of means. Low variability is desirable, and increased variability within a study results in higher CVs and larger LSDs.

Tables 9 and 10 show information about proprietors/distributors for Kentucky bluegrass and timothy varieties included in tests in this report. Varieties are listed in alphabetical order, with the experimental varieties at the bottom. Remember that experimental varieties are not available for farm use.

How to Interpret Summary Tables

Tables 11 and 12 are summaries of yield data of commercial varieties for Kentucky bluegrass (1996-2022) and timothy (2000-2022) that have been entered in the Kentucky trials. The data are 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 higher 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 11 and 12, 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 footnotes in tables 11 and 12 to determine to which yearly report should be referenced.

Summary

Selecting a good timothy or Kentucky bluegrass variety is an important first step in establishing a productive stand of grass. Proper management, beginning with seedbed preparation and continuing throughout the life of the stand, is necessary for even the highest yielding variety to produce to its genetic potential.

The following is a list of University of Kentucky Cooperative Extension publications related to timothy and Ken-

Table 2. Descriptive scheme for the stages of development in perennial forage grasses.

Code	Description	Remarks
Leaf development		
11	First leaf unfolded	Applicable to regrowth of established (plants) and to primary growth of seedlings.
12	2 leaves unfolded	Further subdivision by means of leaf development index (see text).
13	3 leaves unfolded	
.	
19	9 or more leaves unfolded	
Sheath elongation		
20	No elongated sheath	Denotes first phase of new spring growth after overwintering. This character is used instead of tillering which is difficult to record in established stands.
21	1 elongated sheath	
22	2 elongated sheaths	
23	3 elongated sheaths	
.	
29	9 or more elongated sheaths	
Tillering (alternative to sheath elongation)		
21	Main shoot only	Applicable to primary growth of seedlings or to single tiller transplants.
22	Main shoot and 1 tiller	
23	Main shoot and 2 tillers	
24	Main shoot and 3 tillers	
.	
29	Main shoot and 9 or more tillers	
Stem elongation		
31	First node palpable	More precisely an accumulation of nodes. Fertile and sterile tillers distinguishable.
32	Second node palpable	
33	Third node palpable	
34	Fourth node palpable	
35	Fifth node palpable	
37	Flag leaf just visible	
39	Flag leaf ligule/collar just visible	
Booting		
45	Boot swollen	
Inflorescence emergence		
50	Upper 1 to 2 cm of inflorescence visible	
52	¼ of inflorescence emerged	
54	½ of inflorescence emerged	
56	¾ of inflorescence emerged	
58	Base of inflorescence just visible	
Anthesis		
60	Preanthesis	Inflorescence-bearing internode is visible. No anthers are visible.
62	Beginning of anthesis	First anthers appear.
64	Maximum anthesis	Maximum pollen shedding.
66	End of anthesis	No more pollen shedding.
Seed ripening		
75	Endosperm milky	Inflorescence green.
85	Endosperm soft doughy	No seeds loosening when inflorescence is hit on palm.
87	Endosperm hard doughy	Inflorescence losing chlorophyll; a few seeds loosening when inflorescence hit on palm
91	Endosperm hard	Inflorescence-bearing internode losing chlorophyll; seeds loosening in quantity when inflorescence hit on palm.
93	Endosperm hard and dry	Final stage of seed development; most seeds shed.

Source: J. Allan Smith and Virgil W. Hayes. 14th International Grasslands Conference Proc. p. 416-418. June 14-24, 1981, Lexington, Kentucky.

tucky bluegrass management. They are available from your county Extension office and are listed in the “Publications” section of the UK Forage website, www.forages.ca.uky.edu.

- Lime and Fertilizer Recommendations (AGR-1)
- Grain and Forage Crop Guide for Kentucky (AGR-18)

- Establishing Forage Crops (AGR-64)
- Timothy (AGR-84)
- Kentucky Bluegrass as a Forage Crop (AGR-134)
- Forage Identification and Use Guide (AGR-175)
- Establishing Horse Pastures (ID-147)

About the Authors

G.L. Olson is a research specialist, S.R. Smith and J.C. Henning are Extension professors and forage specialists, C.D. Teutsch is an Extension associate professor and forage specialist, and T.D. Phillips is an associate professor in tall fescue and grass breeding.

Table 3. Dry matter yields, seedling vigor, maturity, and stand persistence of timothy varieties sown August 30, 2019, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Oct 23, 2019	Maturity ²				Percent Stand							Yield (tons/acre)						3-year Total
		2020		2021	2022	2019	2020		2021		2022		2020	2021	2022				
		May 14	Jun 17	May 18	May 17	Oct 23	Mar 17	Oct 27	Mar 24	Oct 22	Mar 22	Nov 2	Total	Total	May 17	Jun 24	Oct 17	Total	
Commercial Varieties-Available for Farm Use																			
Derby	5.0	50.0	61.5	55.0	56.0	99	99	99	99	98	98	95	3.78	4.38	2.07	0.25	0.51	2.83	11.00*
Zenyatta	3.8	50.5	62.0	55.5	56.0	91	94	95	96	96	96	92	3.81	4.04	2.10	0.26	0.52	2.88	10.72*
Dawn	4.0	45.0	37.3	54.0	56.5	99	100	100	100	100	100	95	3.68	4.21	2.11	0.17	0.40	2.68	10.57*
Carson	3.8	47.5	53.8	50.3	54.0	98	99	99	99	99	99	95	3.67	4.08	1.92	0.27	0.53	2.72	10.47*
KY Early	2.3	48.8	62.0	56.0	58.0	70	73	95	95	94	93	90	3.08	3.99	1.88	0.26	0.51	2.65	9.72
Climax	5.0	45.0	62.0	48.5	55.0	100	99	99	99	99	97	94	3.08	3.85	1.65	0.54	0.54	2.74	9.67
Barfleo	5.0	45.0	45.0	45.0	46.3	99	100	100	100	100	98	88	2.95	3.54	1.47	0.59	0.54	2.61	9.09
Barpenta	4.0	40.5	29.0	37.0	45.0	96	98	98	97	98	96	97	3.13	3.26	1.10	1.10	0.43	2.63	9.02
Clair	5.0	45.0	61.5	37.5	45.0	100	99	99	99	99	98	94	2.76	3.10	1.20	0.83	0.44	2.47	8.33
Experimental Varieties																			
11PHL4808	4.5	45.0	34.3	41.0	45.0	99	100	99	99	99	99	95	3.31	3.44	1.60	0.52	0.46	2.58	9.34
Mean	4.2	46.2	50.8	48.0	51.7	95	96	98	98	98	97	95	3.33	3.79	1.71	0.48	0.49	2.68	9.79
CV,%	7.9	3.3	20.2	4.9	2.3	10	7	1	1	1	2	5	9.81	12.47	12.53	27.01	25.47	11.12	8.03
LSD,0.05	0.5	2.2	14.9	3.4	1.7	13	10	2	2	2	3	7	0.47	0.69	0.31	0.19	0.18	0.43	1.14

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 4. Dry matter yields, seedling vigor, maturity, and stand persistence of timothy varieties sown August 28, 2020, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Sep 24, 2020	Maturity ²			Percent Stand					Yield (tons/acre)					2-year Total
		2021	2022		2020	2021		2022		2021	2022				
		May 18	May 17	May 17	Sep 24	Mar 24	Oct 22	Mar 22	Oct 18	Total	May 17	Oct 18	Total		
Commercial Varieties-Available for Farm Use															
Zenyatta	3.4	54.5	56.0	100	100	100	100	100	98	5.70	2.24	0.59	2.83	8.53*	
Dawn	4.3	54.0	55.5	100	100	100	100	100	98	5.34	2.24	0.61	2.85	8.18*	
Carson	4.0	49.0	54.0	100	100	100	100	100	100	5.44	1.96	0.68	2.64	8.08*	
KY Early	4.5	56.0	58.0	100	100	100	100	100	99	5.56	2.09	0.42	2.50	8.07*	
Derby	4.5	52.3	56.0	100	100	100	100	100	100	5.13	2.05	0.60	2.66	7.79*	
Barfleo	4.3	44.8	45.0	100	100	100	100	100	98	5.20	1.67	0.41	2.08	7.28	
Climax	4.1	40.5	45.0	100	100	100	100	100	99	4.54	1.63	0.85	2.49	7.03	
Clair	4.0	53.0	55.5	100	100	100	100	100	100	4.65	1.67	0.58	2.24	6.89	
Barpenta	3.4	39.0	45.0	100	100	100	100	100	100	4.35	1.22	0.99	2.21	6.56	
Baronaise	4.6	40.0	45.0	100	100	100	100	100	99	4.14	1.53	0.52	2.04	6.18	
Mean	4.1	48.3	51.5	100	100	100	100	100	99	5.10	1.83	0.62	2.45	7.50	
CV,%	10.2	6.4	2.7	0	0	0	0	0	3	12.41	13.21	24.73	12.20	11.15	
LSD,0.05	0.6	4.5	2.0	0	0	0	0	0	4	0.90	0.35	0.22	0.43	1.21	

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 5. Dry matter yields, seedling vigor, maturity, and stand persistence of timothy varieties sown September 10, 2021, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Oct 4, 2021	Maturity ² 2022 May 17	Percent Stand			Yield (tons/acre)		
			2021	2022		2022		
			Oct 4	Mar 22	Oct 19	May 17	Oct 19	Total
Commercial Varieties-Available for Farm Use								
Clair	4.4	55.5	99	98	98	3.90	1.19	5.09*
Zenyatta	3.8	56.5	98	98	98	3.72	1.23	4.96*
Carson	3.3	56.0	97	96	98	3.58	1.20	4.78*
Conquest	3.8	57.5	100	100	100	3.51	1.26	4.77*
Valor	3.4	56.0	100	99	99	3.61	1.10	4.71*
KY Early	2.1	58.0	69	87	92	3.32	1.20	4.52
Express II	3.5	47.5	94	97	97	2.85	1.08	3.94
Climax	4.1	45.0	99	99	99	3.02	0.69	3.70
Experimental Varieties								
NC Graze	3.9	46.8	100	100	100	3.66	1.29	4.96*
NC Nelson	4.6	52.0	100	100	100	3.52	1.31	4.83*
Mean	3.8	53.1	95	97	98	3.47	1.16	4.62
CV,%	14.8	3.3	8	3	3	7.05	16.01	6.87
LSD,0.05	0.8	2.5	12	4	5	0.36	0.27	0.47

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 6. Dry matter yields, seedling vigor, maturity, and stand persistence of Kentucky bluegrass varieties sown August 30, 2019, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Nov 6, 2019	Maturity ²			Percent Stand						Yield (tons/acre)						3-year Total			
		2021		2022	2019	2020			2021			2022			2020	2021		2022		
		Apr 28	Jun 14	May 5	Nov 6	Mar 17	Oct 27	Mar 24	Oct 22	Mar 22	Oct 18	Total	Total	May 5	Jun 16	Aug 17		Oct 17	Total	
Commercial Varieties-Available for Farm Use																				
Barberby	4.0	57.5	29.0	58.0	100	100	100	100	100	100	100	100	0.77	2.89	0.88	0.56	0.48	0.44	2.36	6.02*
Park	4.3	58.5	29.0	58.0	100	100	100	100	100	100	100	100	0.61	2.77	0.68	0.55	0.42	0.29	1.94	5.31*
Ginger	3.3	60.0	29.0	58.0	100	100	100	100	100	100	98	0.59	2.52	0.85	0.59	0.50	0.19	2.14	5.25*	
Experimental Varieties																				
B-18.2822	3.8	45.0	66.0	53.5	100	100	100	100	100	100	100	100	0.49	3.06	0.40	0.60	0.32	0.46	1.77	5.32*
Mean	3.8	55.3	38.3	56.9	100	100	100	100	100	99	0.61	2.81	0.70	0.58	0.43	0.34	2.05	5.48		
CV,%	19.7	2.7	0.0	0.9	0	0	0	0	0	1	20.49	12.33	27.45	19.10	13.72	24.20	16.95	9.07		
LSD,0.05	1.2	2.4	0.0	0.8	0	0	0	0	0	2	0.20	0.55	0.31	0.18	0.09	0.13	0.56	0.79		

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 7. Dry matter yields, seedling vigor, maturity, and stand persistence of Kentucky bluegrass varieties sown August 28, 2020, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Sep 24, 2020	Maturity ²			Percent Stand						Yield (tons/acre)						2-year Total	
		2021		2022	2020	2021			2022			2021			2022			
		Apr 28	May 5	Sep 24	Mar 24	Oct 22	Mar 22	Oct 18	Total	May 5	Jun 16	Aug 18	Oct 19	Total				
Commercial Varieties-Available for Farm Use																		
Barberby	4.5	57.0	58.0	100	100	100	100	100	100	100	2.50	0.78	0.48	0.33	0.26	1.86	4.36*	
Ginger	4.1	56.0	58.0	100	100	100	100	100	100	100	1.79	1.07	0.47	0.29	0.18	2.01	3.80*	
Park	5.0	52.3	55.5	100	100	100	100	100	100	100	2.43	0.29	0.60	0.22	0.21	1.32	3.75*	
Isabel	4.3	45.0	54.0	100	100	100	100	100	100	100	1.79	0.21	0.36	0.14	0.07	0.78	2.57	
Mean	4.5	52.6	56.4	100	100	100	100	100	100	2.13	0.59	0.48	0.25	0.18	1.49	3.62		
CV,%	6.0	4.6	0.9	0	0	0	0	0	0	22.27	21.58	15.48	17.49	20.87	14.44	14.91		
LSD,0.05	0.4	3.8	0.8	0	0	0	0	0	0	0.76	0.20	0.12	0.07	0.06	0.34	0.86		

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 8. Dry matter yields, seedling vigor, maturity, and stand persistence of Kentucky bluegrass varieties sown September 10, 2021, at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Oct 4, 2021	Maturity ² 2022 May 5	Percent Stand			Yield (tons/acre)			
			2021	2022		2022			
			Oct 4	Mar 22	Oct 19	May 5	Jun 16	Aug 18	Total
Commercial Varieties-Available for Farm Use									
Ginger	4.3	58.0	100	100	100	0.85	0.45	0.42	1.72*
Park	5.0	55.5	100	100	100	0.60	0.50	0.39	1.50*
Isabel	4.1	52.0	100	100	100	0.26	0.57	0.20	1.02
Experimental Varieties									
RAD-4496	4.0	57.5	100	100	100	0.56	0.38	0.27	1.21
Mean	4.3	100.0	100	100	100	0.57	0.47	0.32	1.36
CV,%	7.2	1.0	0	0	0	36.50	23.17	47.35	19.72
LSD,0.05	0.5	1.0	0	0	0	0.33	0.18	0.24	0.43

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

²Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed. See Table 2 for complete scale.

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

Table 9. Proprietors of timothy varieties in current trials.

Variety	Proprietor/KY Distributor
Commercial Varieties-Available for Farm Use	
Barfleo	Barenbrug USA
Baronaise	Barenbrug USA
Barpenta	Barenbrug USA
Carson	Mountain View Seeds
Clair	Ky Agric. Exp. Station
Climax	Canada Agr. Res. Station
Conquest	Allied Seed
Dawn	Hood River Seed
Derby	Southern States
Express II	Allied Seed
KY Early	Smith Seed Services
Valor	DLF Pickseed
Zenyatta	DLF Pickseed
Experimental Varieties¹	
NC Graze	Green Consulting Services
NC Nelson	Green Consulting Services
11PHL4808	Barenbrug USA

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

Table 10. Proprietors of Kentucky bluegrass varieties in current trials.

Variety	Proprietor/KY Distributor
Commercial Varieties-Available for Farm Use	
Barberby	Barenbrug USA
Ginger	ProSeeds Marketing
Park (certified)	Public
Isabel	Smith Seed Services
Experimental Varieties¹	
B-18.2822	Blue Moon Farms
RAD-4496	Radix Research

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

Table 11. Summary of Kentucky Timothy Yield Trials 2000-2022 (yield shown as a percentage of the mean of the commercial varieties in the trial).

Variety	Proprietor/KY Distributor	Lexington																			Quicksand		Princeton		Mean ³ (#trials)		
		00 ^{1,2}	01	02	06	07	08	09	11	12	13	14	15	16	17	19	20	99	01	00	04						
		2yr ⁴	3yr	4yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	2yr	2yr	3yr	2yr						
Alma	Newfield Seeds Co/Caudill Seed Co.																					81			–		
Anjo	Hood River Seed													81												–	
Aurora	General Feed and Grain	100																								99(2)	
Barfleo	Barenbrug USA							95	91	101			108	80	97	94	92	97								95(9)	
Baronaise	Barenbrug USA																	82									
Barpenta	Barenbrug USA					74				82	82						94	92	87							85(6)	
Carson	Mountain View Seeds																113	106	108							109(3)	
Clair	Ky Agric. Exp. Station		104	113	107	95	107	104	112	99	97	111	107	88	88	85	92			106				122		102(17)	
Classic	Cebeco International Seeds	100		86																						91(3)	
Climax	Canada Agr. Res. Station				79	102	104	98	102	100	82	96	90	102	92	98	94									95(13)	
Colt	FS Growmark	105		100	90																				112	99	101(5)
Common	Public		95																							–	
Comtral	Caudill Seed									92	92															92(2)	
Dawn	Hood River Seed															103	107	109								106(3)	
Derby	Southern States				112	111		106	112	108	112	119	123	112			112	104						124		113(12)	
Dolina	DLF Pickseed	99		90																						95(2)	
Express	Seed Research of Oregon			95		91		97	95																	95(4)	
Hokuei	Snow Brand Seed	103																								–	
Hokusei	Snow Brand Seed	96																								98(2)	
Joliette	Newfield Seeds Co/Caudill Seed Co.						86	89																		90	88(3)
Jonaton	Newfield Seeds Co/Caudill Seed Co.																									84	–
KY Early	Smith Seed/Central Farm Supply	102	103	115			102						119				115	99	108	104	103					107(10)	
Outlaw	Grassland West Company																						107			–	
Richmond	Pickseed Canada Inc.	100																								102(2)	
Summergraze	Brett Young												96													–	
Summit	Allied Seed, L.L.C.			112																						–	
Talon	Seed Research of Oregon				110	112		108	106	109																109(5)	
Tenho	Barenbrug USA												84													–	
Treasure	Seed Research of Oregon				103	115		103	101	108																106(5)	
Tundra	DLF Pickseed	95																								–	
Tuukka	Ampac Seed Company		94	88																	91	93				92(4)	
Varis	Mountain View Seeds												83													–	
Zenyatta	DLF Pickseed												103			119		109	114							111(4)	

¹ Year trial was established.

²Use this summary table as a guide in making variety decisions, but refer to specific yearly reports to determine statistical differences in forage yield between varieties. To find actual yields, look in the yearly report for the final year of each specific trial. For example, the Lexington trial planted in the fall of 2017 was harvested 3 years, so the final report would be “2020 Timothy and Kentucky Bluegrass Report” archived in the UK Forage website (<https://forages.ca.uky.edu>).

³Mean only presented when respective variety was included in two or more trials.

⁴Number of years of data.

Table 12. Summary of Kentucky Bluegrass Yield Trials at Lexington 2004-2022 (yield shown as a percentage of the mean of the commercial varieties in the trial).

Variety	Proprietor/KY Distributor	04 ^{1,2}	06	07	08	09	10	11	12	13	14	16	17	18	19	20	Mean ³
		3yr ⁴	4yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	3yr	2yr	3yr	2-yr
Adam 1	Radix Research	98															-
Balin	Pure Seed												91	80			86(2)
Barderby	Barenbrug USA			94		101	91	98	87	103	101	103	128	120	109	120	105(12)
Big Blue	Rose-AgriSeed					82			95								89(2)
Common	Public		71	66	68												68(3)
Ginger	ProSeeds Marketing		118	119	114	118	112	107	110	107	95	101	119	98	95	105	108(14)
Isabel	Smith Seed Services															71	-
Kenblue	Public	102	133				96	95	118	95	100						106(7)
Lato	Turf Seed Inc.			122													-
Park (certified)	Public								90	95	104	117	88	102	96	104	100(8)
RAD-5	Radix Research		103														-
RAD-339	Radix Research		101														-
RAD-643	Radix Research		94														-
RAD-731zx	Radix Research		87														-
RAD-762	Radix Research		94														-
RAD-1039	Radix Research				118												-
Tirem	DLF Pickseed											79	74				77(2)

¹Year trial was established.

²Use this summary table as a guide in making variety decisions, but refer to specific yearly reports to determine statistical differences in forage yield between varieties. To find actual yields, look in the yearly report for the final year of each specific trial. For example, the Lexington trial planted in the fall of 2017 was harvested 3 years, so the final report would be "2020 Timothy and Kentucky Bluegrass Report" archived in the UK Forage website (<https://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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