

2008 Orchardgrass Report

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Introduction

Orchardgrass (*Dactylus glomerata*) is a high-quality, productive, cool-season grass that is well adapted to Kentucky conditions. This grass is used for pasture, hay, green chop, and silage, but it requires better management than tall fescue for greater yields, higher quality, and longer stand life. It produces an open, bunch-type sod, making it very compatible with alfalfa or red clover as a pasture and hay crop or as habitat for wildlife.

This report provides current yield data on orchardgrass varieties included in yield trials in Kentucky as well as guidelines for selecting orchardgrass varieties. Table 9 shows a summary of all orchardgrass varieties tested in Kentucky for the last nine years. The UK Forage Extension Web site at <www.uky.edu/Ag/Forage> contains electronic versions of all forage variety testing reports from Kentucky and surrounding states and from a large number of other forage publications.

Important Selection Considerations

Maturity. Orchardgrass varieties will range in maturity from early to late, based on the date of heading. In this report, early maturing varieties will in general have higher first-cutting yields than later maturing varieties because they are more mature at the date of first cutting. Orchardgrass typically matures earlier in the spring than red clover or alfalfa. Later-maturing varieties are preferred for use with red clover or alfalfa because they are at a more optimal stage of maturity when the legume is ready for cutting.

Local Adaptation and Seasonal Yield. Choose a variety that is adapted to Kentucky, as indicated by good performance across years and 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.

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. Other information on the label will include the test date (which must be within the past nine months) and the level of germination and 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

Data from four studies are reported. Orchardgrass varieties were sown at Lexington (2006 and 2007), Quicksand (2005), and Princeton (2006). The soils at Lexington (Maury), Quicksand (Nolin), and Princeton (Crider) are well-drained silt loams and are well suited to orchardgrass production. Seedlings were made at the rate of 20 lb/A into a prepared seedbed with a disk drill. Plots were 5 by 20 feet in a randomized complete block design with four replications with a harvest plot area of 5 by 15 feet. Nitrogen was topdressed at 60 lb/A of actual N in March, after the first cutting, and again in late summer, for a total of 180 lb/A

per season. The tests were harvested using a sickle-type forage plot harvester to simulate a spring cut hay/summer grazing/fall stockpile management system. Fresh weight samples were taken at each harvest to calculate percent dry matter production. Management practices for establishment, fertility, weed control, and harvest timing were in accordance with University of Kentucky recommendations.

Results and Discussion

Weather data for Quicksand, Lexington, and Princeton are presented in Tables 1 through 3.

Ratings for maturity and stand and dry matter yields (tons/A) are reported in Tables 4 through 7. Yields are given by cutting date and as total annual production. Stated yields are adjusted for percent weeds; therefore, tonnage given is for crop only. Varieties are listed by descending total yield. Experimental varieties, listed separately at the bottom of the tables, are not available commercially.

Statistical analyses were performed on all data (including experimentals) to determine if the apparent differences are truly due to varietal differences or just to chance. In the tables, the variet-

Table 1. Temperature and rainfall at Lexington, Kentucky in 2006, 2007 and 2008.

	2006				2007				2008			
	Temperature		Rainfall		Temperature		Rainfall		Temperature		Rainfall	
	°F	DEP	IN	DEP	°F	DEP	IN	DEP	°F	DEP	IN	DEP
JAN	42	+11	4.77	+1.91	37	+6	2.93	+0.07	33	+2	4.60	+1.74
FEB	36	+1	2.13	-1.08	27	-8	1.83	-1.38	36	+1	5.37	+2.16
MAR	44	0	3.05	-1.35	52	+8	1.97	-2.43	45	+1	6.28	+1.88
APR	59	+4	3.52	-0.36	53	-2	3.87	-0.01	55	0	5.72	+1.84
MAY	62	-2	2.99	-1.48	68	+4	1.45	-3.02	62	-2	4.88	+0.41
JUN	70	-2	1.82	-1.84	74	+2	1.77	-1.89	74	+2	3.30	-0.36
JUL	76	0	5.13	+0.13	74	-2	6.90	+1.90	76	0	2.54	-2.46
AUG	76	+1	3.23	-0.70	80	+5	2.56	-1.37	75	0	1.08	-2.85
SEP	64	-4	9.27	+6.07	72	+4	1.15	-2.05	72	+4	1.21	-1.99
OCT	54	-3	4.88	+2.31	63	+6	5.28	+2.71	57	0	1.35	-1.22
NOV	47	+2	1.78	-1.61	46	+1	2.86	-0.53	43	-2	2.28	-1.11
DEC	42	+6	2.45	-1.53	40	+4	5.29	+1.31				
Total			45.02	+0.47			37.86	-6.69			38.61	-1.96

DEP is departure from the long-term average.
2008 data is for eleven months through November.

ies not significantly different from the top variety in that column are marked with one asterisk (*). To determine if two varieties are truly different, compare the difference between them to 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 the given locations. 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.

Table 8 summarizes information about distributors and yield performance across locations for all varieties currently included in tests discussed in this publication. Varieties are listed in alphabetical order, with the experimental varieties at the bottom. Remember that experimental varieties are not available for farm use; commercial varieties can be purchased through distributors. In Table 8, an open block indicates that the variety was not in that particular test (labeled at the top of the column); an (x) in the block means that the variety was in the test but yielded significantly less than the top-yielding variety. A single asterisk (*) means that the variety was not significantly different from the top-yielding variety in that study. It is best to choose a variety that has performed well over several years and locations. Remember to consider the distribution of yield across the growing season when

Table 2. Temperature and rainfall at Princeton, Kentucky in 2006, 2007 and 2008.

	2006				2007				2008			
	Temperature		Rainfall		Temperature		Rainfall		Temperature		Rainfall	
	°F	DEP	IN	DEP	°F	DEP	IN	DEP	°F	DEP	IN	DEP
JAN	46	+12	5.38	+1.58	40	+6	4.89	+1.09	37	+3	2.40	-1.40
FEB	38	0	2.66	-1.77	34	-4	2.99	-1.44	39	+1	6.76	+2.33
MAR	51	+4	4.22	-0.72	58	+11	1.85	-3.09	48	+1	7.55	+2.61
APR	63	+4	4.02	-0.78	58	-1	3.95	-0.85	58	-1	6.56	+1.76
MAY	66	-1	5.42	+0.46	71	+4	2.29	-2.67	65	-2	6.19	+1.23
JUN	75	0	3.39	-0.46	76	+1	4.32	+0.47	78	+3	1.24	-2.61
JUL	79	+1	3.79	-0.50	77	-1	1.77	-2.52	79	+1	5.12	+0.83
AUG	80	+3	2.58	-1.43	85	+8	0.87	-3.14	77	0	0.69	-3.32
SEP	67	-4	9.80	+6.47	75	+4	3.52	+0.19	74	+3	0.61	-2.72
OCT	57	-2	4.5	+1.45	65	+6	5.84	+2.79	60	+1	2.21	-0.84
NOV	49	+2	4.31	-0.32	49	+2	2.31	-2.32	46	-1	2.59	-2.04
DEC	44	+5	4.76	-0.28	42	+3	10.83	+5.79				
Total			54.82	+3.69			47.92	-3.21			41.96	-4.13

DEP is departure from the long-term average.
2008 data is for eleven months through November.

evaluating productivity of orchardgrass varieties (Tables 4 through 7).

Table 9 is a summary of yield data from 1998 to 2008 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 Table 9, 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 very stable performance; others may have performed very 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 footnote in Table 9 to determine which yearly report to refer to.

Summary

Selecting a good orchardgrass 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.

Table 3. Temperature and rainfall at Quicksand, Kentucky in 2005, 2006, 2007 and 2008.

	2005				2006				2007				2008			
	Temperature		Rainfall		Temperature		Rainfall		Temperature		Rainfall		Temperature		Rainfall	
	°F	DEP	IN	DEP	°F	DEP	IN	DEP	°F	DEP	IN	DEP	°F	DEP	IN	DEP
JAN	40	+9	4.45	+1.16	44	+13	4.48	+1.19	38	+7	2.70	-0.59	34	+3	2.07	-1.22
FEB	42	+9	3.01	-0.59	37	+4	1.56	-2.04	31	-2	0.61	-2.99	38	+5	3.52	-0.08
MAR	44	+3	2.86	-1.48	47	+6	1.74	-2.60	54	+13	2.70	-1.64	46	+5	3.62	-0.72
APR	58	+5	6.63	+2.53	60	+7	2.95	-1.15	55	+2	1.71	-2.39	56	+3	3.99	-0.11
MAY	63	+1	2.05	-2.43	63	+1	3.45	-1.03	69	+7	1.82	-2.66	63	+1	3.69	-1.79
JUN	75	+5	2.39	-1.43	71	+1	3.00	-0.82	75	+5	1.95	-1.87	75	+5	3.96	+0.14
JUL	78	+4	2.58	-2.67	77	+3	3.85	-1.40	76	+2	4.00	-1.25	76	+2	4.96	-0.29
AUG	79	+6	3.51	-0.50	78	+5	3.55	-0.46	82	+9	2.41	-1.60	74	+1	1.16	-2.85
SEP	72	+6	0.27	-3.25	65	-1	5.56	+2.04	73	+7	2.49	-1.03	72	+6	0.15	-3.37
OCT	59	+5	0.68	-2.23	55	+1	6.00	+3.09	63	+9	3.80	+0.89	58	+4	1.02	-1.89
NOV	49	+7	1.30	-2.58	48	+6	2.32	-1.56	47	+5	1.80	-2.08	44	+2	2.14	-1.74
DEC	34	+1	2.39	-1.75	43	+10	1.55	-2.59	42	+8	4.44	+0.30				
Total			32.12	-15.22			40.07	-7.27			30.43	-16.91			29.28	-13.92

DEP is departure from the long-term average.
2008 data is for eleven months through November.

Variety	Percent Stand						Yield (tons/acre)						3-yr Total
	2006		2007		2008		2006	2007	2008				
	Apr 18	Nov 3	Apr 12	Oct 17	Apr 10	Nov 5	Total	Total	May 5	Jun 27	Nov 14	Total	
Commercial Varieties-Available for Farm Use													
Prairie	96	96	98	96	96	97	6.24	3.44	1.88	1.05	0.34	3.27	12.95*
Takena II	89	91	94	90	93	93	6.10	3.39	1.42	1.18	0.40	3.00	12.50*
Century	94	94	94	93	94	95	5.60	3.62	1.70	1.14	0.43	3.28	12.49*
Benchmark Plus	94	92	93	91	94	96	6.02	2.96	1.76	0.97	0.41	3.14	12.11*
Persist	88	93	91	93	95	96	5.74	2.80	2.10	1.10	0.29	3.49	12.03*
Udder	89	91	92	89	86	91	5.71	3.70	1.15	0.97	0.31	2.43	11.85*
Harvestar	81	90	93	90	90	91	5.98	3.05	1.10	1.39	0.30	2.79	11.82*
Bounty	96	94	95	93	93	93	5.79	3.10	1.94	0.70	0.26	2.90	11.79*
Icon	88	90	93	93	93	95	5.68	3.49	1.23	1.10	0.23	2.56	11.73*
Haymaster	84	88	91	88	90	93	5.49	3.26	1.48	1.06	0.21	2.75	11.51*
Tekapo	95	94	95	94	95	94	5.65	2.43	1.32	1.02	0.25	2.59	10.66*
Mean	90.2	91.9	93.5	91.7	92.4	93.9	5.82	3.20	1.55	1.06	0.31	2.93	11.95
CV,%	10.4	5.9	4.5	4.8	5.0	3.0	15.9	18.4	26.8	27.4	37.2	22.0	15.2
LSD,0.05	13.6	7.9	6.0	6.3	6.6	4.0	1.34	0.85	0.60	0.42	0.17	0.93	2.63

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

Variety	Seedling Vigor ¹ May 12, 2006	Maturity ²		Percent Stand						Yield (tons/acre)						3-year Total
		2007	2008	2006		2007		2008		2006	2007	2008				
		May 10	May 6	May 12	Oct 17	Mar 26	Oct 11	Mar 27	Oct 21	Total	Total	May 6	Jun 24	Aug 13	Total	
Commercial Varieties-Available for Farm Use																
Udder	3.5	55.0	47.5	91	95	94	89	88	85	3.27	3.22	1.07	0.53	0.23	1.83	8.32*
Icon	3.5	55.5	51.5	94	96	95	93	93	93	3.11	2.95	1.27	0.51	0.29	2.06	8.13*
Persist	3.0	57.5	55.5	93	96	97	94	95	95	2.79	3.22	1.48	0.37	0.25	2.10	8.10*
Bounty	3.8	58.0	55.0	95	96	94	95	95	93	2.80	3.07	1.50	0.42	0.28	2.20	8.07*
Prairie	3.0	57.0	55.5	93	96	95	94	96	96	2.87	3.05	1.47	0.38	0.25	2.09	8.01*
Takena II	3.5	48.0	48.0	90	96	96	91	88	89	2.82	3.05	1.11	0.53	0.33	1.98	7.85*
Century	3.5	57.0	52.5	95	95	95	94	94	93	2.65	2.92	1.22	0.41	0.27	1.90	7.47*
Benchmark Plus	4.3	56.5	54.5	96	98	97	97	96	94	2.66	2.72	1.39	0.42	0.23	2.05	7.42*
Harvestar	3.3	34.8	36.0	95	95	95	86	86	88	3.00	2.71	0.83	0.65	0.22	1.70	7.41*
Haymaster	2.8	53.5	46.3	88	93	90	89	86	89	2.70	2.70	0.98	0.62	0.28	1.89	7.28*
Tekapo	3.8	57.0	52.5	98	99	96	95	93	91	2.69	2.20	1.01	0.44	0.28	1.73	6.63
Experimental Varieties																
RAD-ECF26	3.3	56.5	56.0	98	98	97	95	93	95	3.04	3.08	1.43	0.46	0.32	2.21	8.34*
RAD-LCF21	3.5	42.5	33.0	100	99	94	93	88	90	2.91	2.65	1.84	0.60	0.26	2.70	8.27*
IS-OG 39	3.8	55.0	51.0	96	98	95	95	95	96	2.89	2.67	1.14	0.49	0.25	1.88	7.44*
AGRDG101	3.5	–	–	98	98	13	21	9	13	2.70	0.64	0.01	0.16	0.11	0.28	3.62
Mean	3.5	53.1	49.6	94.5	96.4	89.4	87.9	86.2	86.4	2.86	2.72	1.18	0.47	0.26	1.91	7.49
CV,%	26.0	11.3	5.1	4.8	2.7	3.1	5.4	4.8	4.6	12.8	11.1	54.4	13.0	36.3	34.8	12.0
LSD,0.05	1.3	8.6	3.6	6.5	3.7	3.9	6.8	6.0	5.7	0.52	0.43	0.92	0.09	0.13	0.95	1.28

¹Vigor score based on 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.

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

The following is a list of University of Kentucky Cooperative Extension publications related to orchardgrass management. They are available from your county Extension office and on the web at www.uky.edu/Ag/Forage:

- AGR-1—Lime and Fertilizer Recommendations

- AGR-18—Grain and Forage Crop Guide for Kentucky
- AGR-26—Renovating Hay and Pasture Fields
- AGR-58—Orchardgrass
- AGR-64—Establishing Forage Crops
- AGR-175—Forage Identification and Use Guide

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Table 6. Dry matter yields, seedling vigor, maturity and stand persistence of orchardgrass varieties sown September 6, 2006 at Princeton, Kentucky.

Variety	Seedling Vigor ¹ Oct 30, 2006	Maturity ²		Percent stand					Yield (tons/acre)					2-year Total
		2007	2008	2006	2007		2008		2007	2008				
		May 8	May 21	Oct 30	Apr 3	Oct 18	Apr 17	Oct 30	Total	May 21	Jun 26	Jul 29	Total	
Commercial Varieties-Available for Farm Use														
Harvestar	4.5	31.5	45.0	98	100	98	98	96	2.57	1.13	0.85	0.24	2.23	4.79*
Benchmark Plus	4.8	49.3	62.0	100	100	98	99	95	2.35	1.41	0.70	0.23	2.34	4.69*
Endurance	4.5	31.5	62.8	99	100	98	100	97	2.22	1.35	0.72	0.22	2.28	4.50*
Prairie	5.0	44.5	61.5	100	100	98	99	97	2.19	1.35	0.67	0.20	2.21	4.41*
Tucker	5.0	34.8	61.5	100	100	98	98	97	2.11	1.25	0.62	0.25	2.13	4.24
Tekapo	3.3	36.5	61.5	100	100	100	98	96	2.00	1.30	0.65	0.21	2.16	4.16
Ambrosia	4.5	34.5	53.8	100	100	98	97	95	2.00	0.92	0.70	0.19	1.81	3.81
Experimental Varieties														
OG 0204G	4.5	33.3	55.0	99	100	99	99	97	2.44	1.20	0.83	0.26	2.29	4.73*
IS-OG 39	4.8	40.5	62.0	97	99	98	99	95	2.44	1.37	0.67	0.19	2.23	4.67*
NFOG101	2.8	50.5	61.5	100	99	99	97	93	1.45	0.84	0.32	0.19	1.35	2.80
Mean	4.4	38.7	58.7	99.2	99.6	98.2	98.3	95.8	2.18	1.21	0.67	0.22	2.10	4.28
CV,%	11.6	15.6	4.8	1.5	1.1	1.5	2.0	2.5	10.3	13.2	13.8	21.1	7.2	6.5
LSD,0.05	0.7	8.8	4.1	2.1	1.5	2.1	2.9	3.4	0.32	0.23	0.13	0.07	0.22	0.40

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

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

*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 orchardgrass varieties sown September 6, 2007 at Lexington, Kentucky.

Variety	Seedling Vigor ¹ Oct 25, 2007	Maturity ² 2008 May 12	Percent Stand			Yield (tons/acre)			
			2007	2008		2008			
			Oct 25	Mar 26	Oct21	May 12	Jun 30	Aug 13	Total
Commercial Varieties-Available for Farm Use									
Benchmark Plus	4.0	56.5	100	100	100	1.33	0.79	0.24	2.36*
Paiute 2	3.0	57.5	99	99	100	1.28	0.73	0.25	2.26*
Christoss	4.3	30.0	100	100	100	1.07	0.86	0.28	2.21*
Profit	3.5	51.8	100	100	100	1.07	0.83	0.29	2.20*
Persist	4.0	57.0	100	100	100	1.17	0.76	0.25	2.18*
Vailliant	2.8	34.8	100	100	100	1.01	0.86	0.28	2.15*
Prairie	4.0	57.0	98	100	100	1.16	0.72	0.26	2.14*
Harvestar	3.8	46.3	100	99	100	1.13	0.75	0.23	2.11*
Checkmate	3.3	53.0	99	100	100	1.10	0.72	0.26	2.08*
Tekapo	4.5	55.0	100	100	100	0.93	0.66	0.19	1.78
Experimental Varieties									
9007238	2.5	55.0	98	98	99	0.42	0.40	0.23	1.06
Mean	3.6	50.3	99.4	99.4	99.7	1.06	0.74	0.25	2.05
CV,%	17.7	9.5	1.4	1.0	0.5	14.4	10.2	27.0	10.5
LSD,0.05	0.9	6.9	2.0	1.4	0.8	0.22	0.11	0.10	0.31

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

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

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

Table 8. Performance of orchardgrass varieties across years and locations.

Variety	Proprietor/KY Distributor	Princeton		Lexington				Quicksand		
		2006 ¹		2006		2007	2005			
		07 ²	08	06	07	08	08	06	07	08
Commercial Varieties-Available for Farm Use										
Ambrosia	American Grass Seed Producers	x ³	x							
Benchmark Plus	FFR/Southern States	*	*	x	x	*	*	*	*	*
Bounty	Allied Seed			*	*	*		*	*	*
Century	Seed Research of Oregon			x	*	*		*	*	*
Checkmate	Seed Research of Oregon						*			
Christoss	ProSeeds Marketing						*			
Endurance	DLF International Seeds	*	*							
Harvestar	Columbia Seeds	*	*	*	x	x	*	*	*	*
Haymaster	FFR/Southern States			x	x	*		*	*	*
Icon	Seed Research of Oregon			*	*	*		*	*	*
Paiute 2	DLF International Seeds						*			
Persist	Smith Seed Services			*	*	*	*	*	*	*
Prairie	Turner Seed Company	x	*	*	*	*	*	*	*	*
Profit	Ampac Seed Company						*			
Takena II	Smith Seed Services			*	*	*		*	*	*
Tekapo	Ampac Seed Company	x	*	x	x	x	x	*	x	*
Tucker	Oregro Seeds, Inc.	x	*							
Udder	Improved Forages, Inc			*	*	*		*	*	x
Vailliant	Proseeds Marketing						*			
Experimental Varieties										
9007238	USDA/NRCS						x			
AGRDG101	AgResearch USA			x	x	x				
ECF27	Radix Research, Inc									
IS-OG39	DLF International Seeds	*	*	*	x	*				
NFOG101	Noble Foundation, Inc.	x	x							
OG 0204G	Seed Research of Oregon	*	*							
RAD-ECF26	Radix Research, Inc			*	*	*				
RAD-LCF21	Lewis Seed Co.			*	x	*				
¹ Establishment year. ² Harvest year. ³ Open box indicates the variety was not in the test, while an "x" in the box indicates the variety was in the test but yielded significantly less than the top ranked variety in the test. *Not significantly different from the highest yielding variety in the test.										

Table 9. Summary of Kentucky Orchardgrass Yield Trials 1999-2008 (yield shown as a percentage of the mean of the commercial varieties in the trial).

Variety	Proprietor	Lexington				Princeton					Quicksand				Mean ³ (#trials)	
		1999 ^{1,2}	2001	2003	2006	1998	2000	2002	2004	2006	1999	2001	2003	2005		
		2-yr ⁴	2-yr	3-yr	3-yr	2-yr	2-yr	3-yr	3-yr	2-yr	2-yr	2-yr	3-yr	3-yr		
Abertop	Pennington							71								-
Albert	Univ. of Wis.		103									106				105(2)
Amba	DLF International Seeds		96									80				88(2)
Ambassador	DLF International Seeds								95							-
Ambrosia	American Grass Seed Prod.									87						-
Athos	DLF International Seeds		98									105				102(2)
Benchmark	FFR/Sou. St.	103				101	97	113			106					104(5)
Benchmark Plus	FFR/Sou. St.				96			107		107			107	101		104(5)
Boone	Public					103	104									104(2)
Bronc	Grassland West						98									-
Bounty	Allied Seed				105										99	102(2)
Century	Seed Research of Oregon				97										105	101(2)
Command	Seed Research of Oregon								87							-
Crown	Donley Seed	101				105		101			97					101(4)
Crown Royale	Donley Seed											110				-
Crown Royale Plus	Donley Seed							108					97			103(2)
Eastwood	Ampac Seed		86									86				86(2)
Endurance	DLF International Seeds									103						-
Extend	Allied Seed								100							-
Hallmark	James VanLeeuwen		102	102				103	98			101	96			100(6)
Harvestar	Columbia seeds				96					110					99	102(3)
Haymaster	FFR/Sou. St.				95										96	96(2)
Haymate	FFR/Sou. St.	106				93	100	106			108	104	103			103(7)
Icon	Seed Research of Oregon				106										98	102(2)
Intensiv	Barenbrug			102												-
LG-31	DLF International Seeds								92							-
Mammoth	DLF International Seeds		102									104				103(2)
Megabite	Turf-Seed	94	105								101					100(3)
Niva	DLF International Seeds							81								-
Persist	Smith Seed			123	105				101					108	101	108(5)
Potomac	Public	104						98			99					100(3)
Prairie	Turner Seed		101		104		95	104		101		102	105	108		103(8)
Renegade	Grassland West						95									-
Shiloh	Proseeds Marketing					109										-
Shiloh II	Proseeds Marketing								117							-
Spanish Pink	DLF International Seeds					82										-
Spanish Red	DLF International Seeds	101									94					98(2)
Takena	Smith Seed		107					100				108				105(3)
Takena II	Smith Seed			110	102				109				106	105		106(5)
Tekapo	Ampac Seed	88			86						95	94	92	105	89	93(7)
Tucker	Oregro Seeds									97						-
Udder	Improved Forages			100	108		102	102						106	99	103(6)
Vision	Cropmark Seeds			63									67			65(2)

¹ Year trial was established.

² Use 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 1999 was harvested 2 years, so the final report would be "2001 Orchardgrass Report" archived in the KY Forage website at <www.uky.edu/Ag/Forage>.

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

⁴ Number of years of data.



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