

Kentucky Bluegrass Full Sun Cultivar Evaluation Trial

RFR-A1923

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Introduction

This is the second year of complete data from Kentucky bluegrass grown in full sun conditions. This is a National Turfgrass Evaluation Program (NTEP) trial, and is being conducted at several research stations in the United States. It contains 89 seeded cultivars, including a number of new experimental cultivars.

Materials and Methods

Research was conducted at the Iowa State University Horticulture Research Station, Ames, Iowa. The trial was planted September 8, 2017. Plots are 5 ft by 5 ft in size, and all

cultivars are replicated three times. The area receives limited irrigation during the season and receives 2 to 3 lb N/1000 ft²/season. The mowing height is 3 in. Data are visual evaluations of color and monthly quality evaluations based on a scale of 9-1, with 9 = best.

Results and Discussion

The values listed in Table 1 are the averages of three replications of each cultivar. The last row states the Fisher's LSD (least significant difference), which is a statistical measurement of how widely the data in each column must vary before these are considered to be different from one another. The final column is the mean of all quality data during the entire season.

Acknowledgements

Appreciation is extended to the NTEP organization for funding to conduct this project.

Table 1. Color², texture, and quality¹ data for the full-sun bluegrass trial, ISU Horticulture Research Station.

Entry	Cultivar	Color	Texture	Density	May Q	June Q	July Q	Aug Q	Sept Q	Oct Q	Mean
1	A11-40	6	8	6	6	6	6	5	6	6	6
2	A13-1	6	7	4	5	6	6	5	4	5	5
3	A99-2897	8	7	7	5	6	6	6	7	7	6
4	LTP-11-41	7	7	8	8	7	7	7	7	9	8
5	Blue Knight	7	7	4	5	6	6	6	5	5	5
6	RAD 553	6	7	6	6	6	6	5	5	6	6
7	Selway	7	8	5	6	6	6	6	6	7	6
8	Babe	7	7	6	6	6	7	5	6	7	6
9	AKB3128	6	7	6	5	6	6	5	6	6	6
10	AKB3179	7	8	7	7	7	7	6	7	7	7
11	AKB3241	7	7	5	6	7	6	6	6	6	6
12	NK-1	7	7	6	5	7	7	6	6	7	6
13	KH3492	7	8	6	7	7	8	6	7	8	7
14	A12-7	7	7	7	7	7	6	6	6	7	7
15	After Midnight	6	7	4	5	7	7	4	4	5	5
16	J-1138	7	7	7	6	7	7	7	7	7	7
17	J-1319	7	7	6	7	7	8	7	6	6	7
18	J-2726	6	7	4	5	7	7	4	4	4	5
19	J-3510	7	7	7	6	8	8	6	7	8	7
20	BAR PP 71213	7	7	6	6	6	6	6	6	6	6
21	BAR PP 7309V	7	8	7	6	6	6	6	6	7	6
22	BAR PP 79366	7	7	6	6	7	7	5	5	6	6
23	Barvette HGT®	7	8	7	7	6	6	7	6	7	7
24	BAR PP 7K426	6	7	6	6	7	7	6	7	7	7
25	BAR PP 7236V	7	7	6	6	6	6	6	5	6	6
26	BAR PP 79494	8	8	7	6	7	8	7	7	7	7
27	BAR PP 110358	6	7	6	7	7	7	5	5	5	6
28	RAD-1776	6	6	6	6	6	6	6	6	6	6
29	NAI-A16-3	7	7	6	7	8	7	5	5	6	6

Table 1 (continued). Color², texture, and quality¹ data for the full-sun bluegrass trial, ISU Horticulture Research Station.

Entry	Cultivar	Color	Texture	Density	May Q	June Q	July Q	Aug Q	Sept Q	Oct Q	Mean
30	NAI-13-132	8	7	6	5	7	7	6	7	9	7
31	NAI-15-80	7	8	8	6	7	7	5	6	7	7
32	NAI-13-9	8	7	7	5	7	8	6	7	7	7
33	NAI-13-14	7	7	8	6	8	7	7	7	8	7
34	NAI-14-122	7	7	6	5	6	6	6	6	7	6
35	PST-K13-143	7	8	6	8	7	8	6	6	6	7
36	NAI-14-128	8	8	8	6	7	7	7	7	8	7
37	NAI-14-132	7	7	7	6	7	7	5	6	6	6
38	NAI-14-133	7	7	6	5	6	6	6	6	6	6
39	NAI-14-176	7	7	7	6	8	7	5	6	7	6
40	NAI-14-178	7	7	7	5	7	6	6	6	7	6
41	NAI-14-187	6	7	7	6	6	7	5	6	6	6
42	NAI-15-84	7	7	4	5	7	6	4	5	4	5
43	Pivot	8	7	6	6	7	6	5	5	5	6
44	Blue Devil	7	7	7	5	7	7	5	7	7	6
45	Skye	7	7	7	6	7	7	6	6	7	6
46	GO-22B23	6	7	5	5	7	7	5	5	5	6
47	GO-2628	8	8	8	7	7	7	6	7	7	7
48	GO-2425	6	7	5	5	7	7	6	7	6	6
49	DLFPS-340/3364	6	7	4	5	6	5	5	4	5	5
50	DLFPS-340/3446	6	7	6	5	6	6	5	5	6	5
51	DLFPS-340/3556	8	7	6	6	8	9	6	6	7	7
52	DLFPS-340/3553	6	7	6	6	7	6	5	6	6	6
53	DLFPS-340/3494	7	7	6	6	7	7	5	5	5	6
54	DLFPS-340/3500	6	7	4	6	7	7	5	5	6	6

Table 1 (continued). Color², texture, and quality¹ data for the full-sun bluegrass trial, ISU Horticulture Research Station.

Entry	Cultivar	Color	Texture	Density	May Q	June Q	July Q	Aug Q	Sept Q	Oct Q	Mean
55	DLFPS-340/3438	6	7	5	5	7	6	5	4	5	5
56	DLFPS-340/3549	7	7	6	6	6	7	6	6	6	6
57	DLFPS-340/3548	7	7	6	6	6	5	6	5	5	6
58	DLFPS-340/3444	7	7	6	5	7	6	6	7	6	6
59	DLFPS-340/3455	7	7	7	6	6	7	5	7	6	6
60	DLFPS-340/3550	7	7	7	6	8	7	7	8	7	7
61	DLFPS-340/3551	7	7	6	7	6	6	6	6	5	6
62	DLFPS-340/3552	6	8	6	6	6	6	7	7	6	7
63	MVS-130	7	7	6	6	6	7	6	6	6	6
64	A16-1	7	7	6	7	7	7	5	5	7	6
65	A16-7	7	7	6	5	7	6	5	5	5	6
66	A12-34	7	7	5	5	7	6	6	6	6	6
67	A11-26	7	8	8	7	7	7	6	6	8	7
68	PPG-KB 1320	7	7	6	5	8	7	6	5	5	6
69	A11-38	6	7	6	5	6	6	5	5	6	6
70	PPG-KB 1131	6	7	6	6	8	7	5	4	5	6
71	A10-280	8	7	7	6	7	7	6	7	7	7
72	Shamrock	6	7	6	6	6	7	5	6	7	6
73	A16-2	6	8	8	7	7	7	6	7	7	7
74	PPG-KB 1304	7	7	6	6	7	6	7	6	7	7
75	A15-6	7	7	5	5	6	6	5	6	6	6
76	A16-17	7	8	6	7	7	7	7	7	8	7
77	Prosperity	7	7	8	6	7	7	7	7	7	7
78	A06-8	7	7	5	6	6	7	5	5	7	6

Table 1 (continued). Color², texture, and quality¹ data for the full-sun bluegrass trial, ISU Horticulture Research Station.

Entry	Cultivar	Color	Texture	Density	May Q	June Q	July Q	Aug Q	Sept Q	Oct Q	Mean
79	Kenblue	6	8	6	6	6	6	5	6	6	6
80	PST-K13-139	7	8	6	6	7	7	6	6	6	6
81	PST-K13-141	7	7	6	7	7	6	6	6	6	6
82	PST-K11-118	6	8	5	5	6	6	6	5	5	6
83	PST-K15-157	7	7	6	6	7	7	7	7	7	7
84	PST-11-7	6	7	5	6	6	6	6	5	5	6
85	PST-K15-167	7	7	6	5	7	6	6	6	6	6
86	PST-K15-177	7	7	7	6	7	7	7	7	7	7
87	PST-K15-172	7	7	6	6	7	6	7	7	7	7
88	Midnight	8	7	6	6	8	7	7	7	7	7
89	PST-T14-39	8	8	6	7	6	7	6	6	7	7
LSD 0.05		NS	NS	NS	NS	NS	NS	2	2	NS	1

¹Quality and texture rated on a 1 to 9 scale with 9 = best quality and texture, 1 = worst, and 6 = lowest acceptable.

²Color rated on a 1 to 9 scale with 9 = dark, 1 = light green.