

# Kentucky Bluegrass Full Sun Cultivar Evaluation Trial

## RFR-A1716

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### Introduction

This is the initial establishment data from Kentucky bluegrass growing in full sun conditions. This is a National Turfgrass Evaluation Program (NTEP) ancillary 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. Iowa State is conducting both a sun and shade setting of this trial.

### Materials and Methods

Research was conducted at the Iowa State University Horticulture Research Station. The ground was cleared of all vegetative cover before planting with a nonselective herbicide (glyphosate). The trial was planted September 8, 2017. Plots are 5 ft x 5 ft in size, and all

cultivars are replicated three times. Supplemental irrigation was provided during establishment and a starter fertilizer (10-10-10) was applied at seeding providing 1 lb nitrogen/1,000 ft<sup>2</sup>. The mowing height is 3 in. Data are visual evaluations of percentage green cover (1-100% cover).

### Results and Discussion

Significant differences existed between cultivars for percent cover in the October rating. The values listed in Table 1 are the averages of the percentage in October, six weeks after seeding. 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. In this case, there must be at least an 18 percent difference between cultivars to be a real effect.

### Acknowledgements

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

**Table 1. Percent cover for the full sun Kentucky bluegrass trial-2017.**

<b>Entry</b>	<b>Cultivar</b>	<b>Percent cover in October</b>
1	A11-40	33
2	A13-1	23
3	A99-2897	23
4	LTP-11-41	53
5	Blue Knight	37
6	RAD 553	37
7	Selway	33
8	Babe	40
9	AKB3128	27
10	AKB3179	43
11	AKB3241	30
12	NK-1	40
13	KH3492	50
14	A12-7	33
15	After Midnight	40
16	J-1138	33
17	J-1319	33
18	J-2726	33
19	J-3510	30
20	BAR PP 71213	53
21	BAR PP 7309V	50
22	BAR PP 79366	32
23	Barvette HGT®	47
24	BAR PP 7K426	40
25	BAR PP 7236V	47
26	BAR PP 79494	43
27	BAR PP 110358	50
28	RAD-1776	33
29	NAI-A16-3	47
30	NAI-13-132	22
31	NAI-15-80	17
32	NAI-13-9	30
33	NAI-13-14	30
34	NAI-14-122	20
35	PST-K13-143	50
36	NAI-14-128	23
37	NAI-14-132	27
38	NAI-14-133	23
39	NAI-14-176	43
40	NAI-14-178	22
41	NAI-14-187	23
42	NAI-15-84	30
43	Pivot	30
44	Blue Devil	23
45	Skye	33
46	GO-22B23	27
47	GO-2628	28
48	GO-2425	33
49	DLFPS-340/3364	15
50	DLFPS-340/3446	33
51	DLFPS-340/3556	25

**Table 1. Percentage cover for the full sun Kentucky bluegrass trial-2017 (continued).**

<b>Entry</b>	<b>Cultivar</b>	<b>Percentage cover October</b>
52	DLFPS-340/3553	50
53	DLFPS-340/3494	33
54	DLFPS-340/3500	32
55	DLFPS-340/3438	30
56	DLFPS-340/3549	40
57	DLFPS-340/3548	43
58	DLFPS-340/3444	25
59	DLFPS-340/3455	40
60	DLFPS-340/3550	37
61	DLFPS-340/3551	43
62	DLFPS-340/3552	33
63	MVS-130	17
64	A16-1	35
65	A16-7	40
66	A12-34	27
67	A11-26	37
68	PPG-KB 1320	40
69	A11-38	23
70	PPG-KB 1131	33
71	A10-280	23
72	Shamrock	30
73	A16-2	50
74	PPG-KB 1304	33
75	A15-6	40
76	A16-17	43
77	Prosperity	37
78	A06-8	18
79	Kenblue	37
80	PST-K13-139	33
81	PST-K13-141	40
82	PST-K11-118	33
83	PST-K15-157	27
84	PST-11-7	37
85	PST-K15-167	28
86	PST-K15-177	30
87	PST-K15-172	37
88	Midnight	28
89	PST-T14-39	33
	LSD 0.05	18