

Kentucky Bluegrass Cultivar Study

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Introduction

The National Turfgrass Evaluation Program (NTEP) conducts trials throughout the United States on turfgrass adaptation. This trial was established in September 2011 as a part of the NTEP program. It contains 82 Kentucky bluegrass cultivars.

Materials and Methods

The individual plots measure 5 ft × 5 ft and the study was replicated three times. Genetic color ratings were conducted in June and quality ratings were conducted monthly in 2013 from May to October. Ratings were based on a scale of 9=best quality and 1=lowest quality. A rating of six or above was considered to be acceptable.

Results and Discussion

Table 1 contains genetic color ratings and quality ratings for the 2013 season. The mean quality rating was calculated for each cultivar. The trial was not irrigated. The 2013 season was unusual. The spring was cool and wet and greenup was slow to occur. The weather then changed and there was a drought through most of the summer and fall. This resulted in few significant differences in quality during the season. We will continue to take data for two more years. The data also is submitted to NTEP each year and it will be included in their yearly report with data from all of the other states conducting this trial. Their data can be accessed at ntep.org.

Acknowledgements

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

Table 1. Kentucky Bluegrass quality ratings.

No.	Cultivar	Genetic color	Quality						Mean Q
			May	June	July	Aug	Sept	Oct	
1	BAR 12PP 612	7	5	7	6	5	6	5	6
2	BAR 8PP 504	7	6	5	6	6	6	6	6
3	America	6	5	7	6	5	5	6	6
4	A05-361	6	7	6	5	5	5	6	6
5	Cabernet	7	6	6	7	6	6	6	6
6	Award	8	6	7	6	6	5	6	6
7	Nu Chicago	7	7	8	5	6	6	7	7
8	Kenblue	7	5	6	6	5	6	5	5
9	J-1770	7	6	6	6	5	5	7	6
10	J-1136	7	6	7	6	6	5	8	6
11	Rush	8	7	7	7	6	5	7	7
12	Sudden Impact	8	7	7	6	5	6	6	6
13	J-1853	7	6	6	5	5	6	6	5
14	A05-204	8	6	6	7	6	6	6	6
15	A05-329	8	6	7	6	6	5	5	6

Table 1. Kentucky bluegrass quality ratings (continued).

No.	Cultivar	Genetic color	Quality						Mean Q
			May	June	July	Aug	Sept	Oct	
16	A98-344	8	7	7	7	7	7	7	7
17	A98-363	6	7	6	6	7	6	7	6
18	RAD-1492	7	6	6	6	6	6	7	6
19	A04-38	7	6	6	6	5	6	6	6
20	A05-360	7	7	7	6	7	8	7	7
21	PpH 9131	7	6	7	7	7	6	7	7
22	DPPp 818	7	6	6	6	7	6	6	6
23	Pp 10847	6	7	6	6	6	6	6	6
24	Pick 033	7	6	6	7	6	7	7	6
25	Pick MP07	6	6	6	5	5	4	5	5
26	Pick 4340	7	6	7	6	6	6	7	6
27	SRX 466	7	6	6	6	6	6	6	6
28	SRX 2758	7	7	8	6	6	5	7	6
29	SRX 4338	7	7	8	6	5	5	6	6
30	LTP-08-6	7	7	7	7	5	6	6	6
31	A00-2882	7	7	7	6	6	6	7	7
32	A04-342	8	7	7	6	7	6	6	6
33	A06-46	8	7	6	6	7	6	7	7
34	A05-TB-382	7	5	6	7	7	7	7	6
35	H99-1653	7	5	6	6	5	6	5	6
36	Blue Note	7	7	6	6	6	6	6	6
37	A10-1	8	8	7	6	6	5	6	6
38	A05-306	6	6	6	6	7	6	7	6
39	A03-1017	7	6	7	7	6	5	7	6
40	A04-74	8	6	7	6	7	6	6	6
41	RAD-849	7	7	7	6	6	5	6	6
42	Avid	7	7	7	6	5	6	6	6
43	Empire	7	6	7	7	6	6	8	7
44	Burl 3-51	7	6	7	7	6	6	7	6
45	Burl 06-11	7	6	6	6	5	5	5	5
46	PST-K4-3	7	6	7	5	5	6	6	6
47	PST-K9-90	7	6	6	5	5	4	6	5
48	PST-K10-106D	7	6	6	6	6	7	7	6
49	BAR Pp 119327	7	7	7	6	7	7	7	7
50	Barduke	7	6	7	6	6	7	7	6
51	Baron	7	6	7	5	6	6	6	6
52	BAR VV 0709	6	5	5	6	5	6	6	6
53	BAR VV 112916	7	6	6	7	6	5	6	6
54	BAR Pp 110358	6	6	6	7	6	6	6	6
55	BAR Pp 119326	6	6	7	7	6	6	7	6
56	BAR VV 118532	7	7	7	8	7	7	8	7
57	Skye	7	6	7	5	5	5	6	6
58	AKB 2282	7	5	6	6	5	5	5	5

Table 1. Kentucky bluegrass quality ratings (continued).

No.	Cultivar	Genetic color	Quality						Mean Q
			May	June	July	Aug	Sept	Oct	
59	AKB 2555	6	6	6	7	6	6	7	6
60	A00-4199	7	6	7	6	6	6	6	6
61	A06-26	7	6	7	6	6	5	6	6
62	Pick TD8	7	6	6	6	5	4	5	5
63	SRX 5321	6	7	6	6	6	6	7	6
64	Pick TD9	8	6	6	6	7	6	7	6
65	Blackjack	7	5	6	6	6	6	6	6
66	Arrowhead	7	7	6	6	6	6	6	6
67	PST-K9-99	6	7	7	5	5	6	6	6
68	PST-07-261	8	6	5	5	5	6	7	6
69	PST-T10-18	6	6	6	5	5	4	6	5
70	PST -K4-7	7	7	6	6	5	6	6	6
71	PST-K9-97	7	5	6	6	7	6	6	6
72	4S2W	8	6	7	7	6	6	7	6
73	3733	7	6	6	7	7	6	7	7
74	A05-315	6	6	6	7	6	5	7	6
75	A05-999	7	5	6	6	5	6	6	6
76	A06-47	7	6	7	6	6	6	7	6
77	RAD-507	8	6	6	6	6	7	7	6
78	A04-36	6	6	7	6	6	7	6	6
79	Shamrock	7	6	7	7	6	6	7	7
80	A01-1106	9	6	7	7	7	6	7	7
81	Midnight	7	7	6	6	5	5	6	6
82	Thermal Blue	8	7	7	7	7	7	7	7
LSD 0.05		NS	NS	1	NS	2	NS	NS	1

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