

NTEP Perennial Ryegrass Study 2014

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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 2010 as part of the NTEP program. It contains 88 perennial ryegrass 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, rust disease ratings were conducted in July. Quality ratings were conducted monthly in 2014. Ratings were based on a scale of 9 = best quality and 1 = lowest quality. A rating of 6 or above is considered to be commercially acceptable. For the color ratings, 9 is the

darkest green color and 1 is brown. Rust ratings were on a scale of 9 to 1, where a 9 = no rust.

Results and Discussion

Table 1 contains genetic color ratings, greenup, rust and quality ratings for the 2014 season. The mean is the average of all quality ratings for the season. This is a non-irrigated trial and it was partially dormant through some of the midseason. There was a particularly bad outbreak of rust in July. Some cultivars were severely damaged and others were not affected. This was the last year of data collection on this trial. 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 that are conducting this trial. Their data can be found at www.ntep.org.

Acknowledgements

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

Table 1. Data from the 2014 perennial ryegrass cultivar trial.

No.	Cultivar	Gen color	Green up	Quality ratings ¹							Mean	Rust
				May	June	July	Aug	Sept	Oct			
1	Rinovo	7	5	4	5	5	4	5	5	5	6	
2	CL 11601	6	6	6	6	6	7	7	7	6	8	
3	PR 909	6	5	5	6	6	7	7	7	6	8	
4	CL 11701	7	7	7	7	6	6	7	8	7	9	
5	Apr 2036	8	6	5	6	5	4	5	6	5	7	
6	Linn	5	3	2	4	5	3	3	4	4	9	
7	Uno	6	5	5	6	5	4	5	6	5	5	
8	DLF LGD-3026	6	4	4	5	5	4	4	5	5	8	
9	DLF LGD-3022	7	5	4	5	6	4	5	6	5	7	
10	PSRX-S84	7	6	6	7	6	7	7	7	7	7	
11	SRX-4RHD	7	6	6	6	6	5	6	6	6	8	
12	P02	7	4	4	5	5	3	4	6	5	6	
13	S85	6	5	7	6	6	8	7	7	7	8	
14	LTP-RAE	7	6	5	6	7	7	6	7	6	9	
15	Allante	6	4	5	5	4	4	5	6	5	5	
16	Insight	6	4	4	4	5	4	5	6	5	6	
17	Sienna	7	3	4	4	5	4	4	5	4	7	
18	Brightstar SLT	6	5	5	5	4	4	5	5	5	5	
19	CL 307	7	5	5	6	6	7	6	7	6	9	
20	Apr 2320	8	6	6	7	5	4	6	7	6	6	
21	Apr 2038	6	5	5	6	4	5	4	5	5	5	
22	PPG-PR 121	7	5	6	6	6	6	6	6	6	9	
23	PPG-PR 128	6	5	4	5	5	6	6	6	5	9	
24	PPG-PR 133	6	5	5	6	5	5	5	6	6	9	
25	PPG-PR 134	7	5	4	6	6	8	7	7	6	9	
26	LTP-PR 135	7	5	5	6	7	7	6	7	6	8	
27	PPG-PR 136	7	6	5	6	7	6	6	7	6	7	
28	PPG-PR 137	7	6	6	6	6	7	7	7	7	9	
29	PPG-PR 138	8	4	5	6	6	6	6	7	6	9	
30	PPG-PR 140	7	5	5	6	6	6	7	6	6	8	
31	PPG-PR 142	6	5	5	7	6	6	7	6	6	6	
32	PPG-PR 143	7	5	4	6	6	5	5	6	5	9	
33	PPG-PR 164	7	5	6	7	6	7	6	7	6	9	
34	PPG-PR 165	7	5	5	6	6	7	6	6	6	7	
35	BAR Lp 10969	6	5	5	6	4	3	6	5	5	6	
36	BAR Lp 10972	7	5	5	6	4	4	4	5	5	5	
37	BAR Lp 10970	6	5	4	6	5	4	5	5	5	6	
38	2NJK	6	6	5	6	5	5	6	6	6	8	
39	BAR Lp 7608	6	5	5	6	5	4	4	5	5	5	
40	Pinnacle	6	5	5	5	5	3	4	5	5	3	
41	APR 2445	7	5	4	5	5	4	6	6	5	6	
42	Fiesta 4	6	5	5	6	5	4	5	6	5	6	
43	GO-G37	8	6	5	6	5	4	5	6	5	6	
44	CS-20	8	5	6	6	5	3	5	6	5	5	
45	ISG-36	8	7	5	5	4	3	5	5	5	6	
46	ISG-31	8	6	5	6	4	3	4	6	5	5	
47	A-35	9	7	6	6	4	3	5	6	5	7	
48	CS-PR66	8	5	4	6	4	4	5	6	5	3	
49	CST	6	5	7	7	6	7	6	6	7	8	
50	JR-178	7	5	5	6	7	6	6	6	6	7	
51	JR-192	7	6	6	6	4	4	6	6	6	3	
52	PSRX-3701	6	6	7	7	6	6	7	7	6	9	
53	Pick 10401	7	5	6	6	7	8	8	7	7	9	
54	Mach I	8	6	3	5	5	4	5	5	4	6	
55	RAD-PR62	6	5	6	6	6	4	6	6	6	6	
56	RAD-PR55R	8	4	4	6	5	4	5	6	5	7	
57	IS-PR 409	7	6	4	6	6	4	5	6	5	7	
58	IS-PR 463	8	5	5	7	7	5	6	7	6	8	

Table 1. Data from the 2014 perennial ryegrass cultivar trial (continued).

No.	Cultivar	Gen color	Green up	Quality ratings ¹							Mean	Rust
				May	June	July	Aug	Sept	Oct			
59	IS-PR 469	7	4	5	6	6	5	5	7	6	8	
60	IS-PR 479	9	6	5	6	5	4	5	6	5	6	
61	IS-PR 487	7	6	6	7	7	7	6	7	7	9	
62	IS-PR 488	7	4	3	4	5	5	4	5	4	7	
63	IS-PR 489	6	6	5	6	7	6	6	7	6	8	
64	IS-PR 491	8	5	5	6	6	4	6	7	6	7	
65	IS-PR 492	6	4	4	6	6	5	5	6	5	9	
66	DLF LGT 4182	7	6	5	7	5	3	5	5	5	4	
67	ISG-30	8	6	5	6	4	3	5	6	5	5	
68	PST-204D	6	5	5	6	5	4	6	6	5	8	
69	PST-2NKM	7	5	6	6	5	4	6	7	6	6	
70	PST-2DR9	7	5	5	5	6	4	5	7	5	6	
71	PST-2MG7	7	5	6	7	5	5	6	7	6	7	
72	PST-2TQL	6	5	5	6	5	5	6	6	5	5	
73	PST-2AG4	6	6	7	6	6	4	6	7	6	8	
74	PST-2MAGS	8	5	6	6	6	5	6	7	6	8	
75	PST-2K9	7	4	5	5	6	4	5	5	5	7	
76	PST-2BNS	7	6	6	6	6	6	6	6	6	8	
77	PST-2ACR	7	5	5	6	6	4	6	7	6	7	
78	Rio Vista	7	5	5	5	6	5	6	7	6	8	
79	Octane	7	5	6	6	7	7	6	7	7	9	
80	Bonneville	6	5	5	6	6	6	6	6	6	7	
81	PSRX-4CAGL	8	4	3	6	5	3	4	5	4	5	
82	GO-DHS	9	7	6	6	3	3	4	5	5	5	
83	GO-PR60	8	5	6	7	6	4	7	7	6	7	
84	GM3	6	6	5	6	6	5	5	6	5	8	
85	PRX-4GM1	7	5	5	6	5	4	5	6	5	8	
86	SRX-4MSH	6	4	5	7	7	6	6	6	6	9	
87	Pick 4DFHM	7	5	5	5	5	3	4	5	4	5	
88	Palmer V	7	5	5	6	5	5	5	6	5	7	
LSD 0.05		1	2	2	2	2	2	2	2	1	2	

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