

Perennial Ryegrass 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 2010 as a 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 is replicated three times. Cover was based on a percentage of cover in each plot at the end of the 2010 season. Quality ratings were conducted monthly in 2011. Ratings are

based on a scale of 9 = best quality and 1 = lowest quality. A rating of 6 or above is considered to be acceptable.

Results and Discussion

Table 1 contains data for the fall of 2010 on percentage cover at the end of the season and quality ratings for the 2011 season. The trial is just beginning to mature. We will continue to take data for three 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 that are 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. Percentage cover of perennial ryegrasses in the fall of 2010 and quality ratings for 2011.

Cultivar	Cover ^b	Quality ^a					
		May	June	July	August	September	October
1 Rinovo	53	4	5	7	6	7	6
2 CL 11601	70	6	6	6	6	6	6
3 PR 909	70	5	6	6	6	6	6
4 CL 11701	60	4	5	6	6	6	6
5-Apr-36	53	5	5	7	5	6	5
6 Linn	63	4	4	5	4	3	3
7 Uno	73	5	6	6	6	7	6
8 DLF LGD-3026	70	5	6	7	7	6	6
9 DLF LGD-3022	73	5	7	6	6	8	6
10 PSRX-S84	73	5	7	6	6	6	7
11 SRX-4RHD	57	5	6	6	6	6	6
12 P02	60	4	6	6	5	6	5
13 S85	63	5	6	6	6	7	6
14 LTP-RAE	60	5	6	7	6	6	7
15 Allante	73	5	7	6	6	6	5
16 Insight	57	5	7	6	6	6	5
17 Sienna	63	5	7	7	6	7	7
18 Brightstar SLT	83	6	7	6	6	6	6
19 CL 307	77	5	6	6	6	6	6
20-Apr-20	63	5	6	8	7	8	7
21-Apr-38	63	6	6	6	6	6	6
22 PPG-PR 121	63	5	6	6	6	6	6
23 PPG-PR 128	57	4	6	6	5	6	5
24 PPG-PR 133	63	5	6	6	6	7	6
25 PPG-PR 134	53	5	5	6	5	6	6
26 LTP-PR 135	60	4	7	7	6	6	7
27 PPG-PR 136	60	4	6	6	5	6	6
28 PPG-PR 137	60	4	6	6	6	6	6
29 PPG-PR 138	43	5	6	7	5	6	6
30 PPG-PR 140	60	5	6	7	5	6	6
31 PPG-PR 142	67	5	7	6	6	6	6
32 PPG-PR 143	57	5	6	7	6	6	5
33 PPG-PR 164	63	4	6	6	5	6	6
34 PPG-PR 165	63	5	7	6	6	6	6
35 BAR Lp 10969	67	5	6	6	6	6	6
36 BAR Lp 10972	47	3	5	6	5	6	5
37 BAR Lp 10970	60	4	5	7	6	6	6
38 2NJK	73	5	6	6	7	7	6
39 BAR Lp 7608	60	5	6	6	6	7	6
40 Pinnacle	70	6	5	5	6	6	4
41 APR 2445	53	4	5	7	6	6	5
42 Fiesta 4	53	4	6	6	6	5	6
43 GO-G37	50	4	5	8	6	5	4
44 CS-20	78	6	6	8	7	6	6
45 ISG-36	63	5	6	8	6	6	6
46 ISG-31	60	5	6	8	6	5	5
47 A-35	60	4	5	8	6	6	5
48 CS-PR66	67	5	5	7	7	6	6
49 CST	53	4	5	6	5	6	5

^aPercentage cover visually estimated on a 0–100 scale at the conclusion of 2010 growing season.

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

Table 1 (continued). Percentage cover of perennial ryegrasses in the fall of 2010 and quality ratings for 2011.

Cultivar	Cover ^b	Quality ^a					
		May	June	July	August	September	October
50 JR-178	63	5	6	7	6	6	7
51 JR-192	70	5	7	7	7	7	6
52 PSRX-3701	67	5	6	6	7	6	7
53 Pick 10401	50	4	5	7	6	6	5
54 Mach I	57	4	5	7	6	6	5
55 RAD-PR62	53	4	4	7	5	6	5
56 RAD-PR55R	63	4	6	7	6	6	6
57 IS-PR 409	45	4	6	6	5	5	6
58 IS-PR 463	63	4	6	6	6	6	7
59 IS-PR 469	57	5	6	7	7	7	7
60 IS-PR 479	57	4	5	8	6	5	5
61 IS-PR 487	60	6	6	6	6	7	7
62 IS-PR 488	53	4	6	7	6	6	6
63 IS-PR 489	70	5	7	6	6	6	6
64 IS-PR 491	67	4	5	7	6	6	6
65 IS-PR 492	60	5	6	6	6	6	7
66 DLF LGT 4182	57	4	6	7	6	6	5
67 ISG-30	70	4	6	8	5	6	5
68 PST-204D	60	4	6	6	6	6	6
69 PST-2NKM	73	4	6	6	6	7	6
70 PST-2DR9	57	5	6	6	6	6	6
71 PST-2MG7	73	5	6	6	6	6	6
72 PST-2TQL	67	4	6	7	6	7	6
73 PST-2AG4	70	5	6	6	6	6	6
74 PST-2MAGS	73	5	5	6	6	6	6
75 PST-2K9	53	4	5	6	5	6	5
76 PST-2BNS	57	4	5	6	6	7	5
77 PST-2ACR	57	5	6	6	6	6	7
78 Rio Vista	63	5	6	6	7	6	6
79 Octane	70	5	5	7	6	6	6
80 Bonneville	67	5	6	6	6	7	6
81 PSRX-4CAGL	50	4	5	7	6	5	6
82 GO-DHS	63	5	5	7	5	5	5
83 GO-PR60	63	4	5	7	6	5	6
84 GM3	60	5	5	7	5	6	6
85 PRX-4GM1	63	5	6	6	6	6	6
86 SRX-4MSH	67	4	6	7	6	6	6
87 Pick 4DFHM	50	4	5	6	5	6	5
88 Palmer V	60	4	5	6	5	6	5
LSD 0.05	22	1	1	1	1	2	3

^aPercentage cover visually estimated on a 0–100 scale at the conclusion of 2010 growing season.

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