

2013

Perennial Ryegrass Cultivar Study

Zachary A. Simons

Iowa State University, zasimons@iastate.edu

Nick E. Christians

Iowa State University, nchris@iastate.edu

Daniel J. Strey

Iowa State University, dstrey@iastate.edu

Follow this and additional works at: http://lib.dr.iastate.edu/farms_reports



Part of the [Agricultural Science Commons](#), [Agriculture Commons](#), and the [Horticulture Commons](#)

Recommended Citation

Simons, Zachary A.; Christians, Nick E.; and Strey, Daniel J., "Perennial Ryegrass Cultivar Study" (2013). *Iowa State Research Farm Progress Reports*. 1896.

http://lib.dr.iastate.edu/farms_reports/1896

This report is brought to you for free and open access by Iowa State University Digital Repository. It has been accepted for inclusion in Iowa State Research Farm Progress Reports by an authorized administrator of Iowa State University Digital Repository. For more information, please contact digirep@iastate.edu.

Perennial Ryegrass Cultivar Study

Abstract

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.

Keywords

RFR A1220, Horticulture, Turfgrass

Disciplines

Agricultural Science | Agriculture | Horticulture

Perennial Ryegrass Cultivar Study

RFR-A1220

Zach Simons, graduate student
Nick Christians, university professor
Dan Strey, research associate
Department of Horticulture

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 by 5 ft and the study is replicated three times. Genetic color ratings were conducted in June, red thread ratings were conducted in July, and gray leaf spot ratings were conducted in September. Quality ratings were conducted

monthly in 2012. Ratings are based on a scale of 9 = best quality and 1 = lowest quality. A rating of six or above is considered to be acceptable.

Results and Discussion

Table 1 contains genetic color ratings, red thread ratings, gray leaf spot ratings, and quality ratings for the 2012 season. The mean quality rating was calculated for each cultivar. We will continue to take data for two more years. The data is also 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. Perennial ryegrasses quality ratings for 2012.

Cultivar	Genetic Color	Red Thread	Gray Leaf Spot	Quality ^a							Mean q
				April	May	June	July	August	Sept	October	
1 Rinovo	6	4	6	5	6	6	5	5	5	4	6
2 CL 11601	6	5	4	7	7	6	6	5	4	5	7
3 PR 909	6	5	4	6	6	7	6	5	5	5	7
4 CL 11701	6	5	4	6	7	6	6	6	5	5	7
5-Apr-36	6	4	5	6	6	5	5	5	5	6	6
6 Linn	4	6	4	4	4	4	5	3	4	4	5
7 Uno	6	4	3	6	6	6	5	4	3	4	6
8 DLF LGD-3026	6	4	3	5	6	5	4	5	3	3	5
9 DLF LGD-3022	6	5	4	6	7	6	6	5	4	4	7
10 PSRX-S84	6	5	4	6	6	7	5	5	4	4	6
11 SRX-4RHD	6	7	5	6	7	5	7	6	5	6	7
12 P02	6	6	3	6	5	6	6	5	4	4	6
13 S85	6	5	6	7	7	8	6	6	6	5	7
14 LTP-RAE	6	5	4	5	6	5	6	5	4	4	6
15 Allante	6	4	4	5	6	6	6	4	4	4	6
16 Insight	6	3	3	5	5	5	4	3	3	4	5
17 Sienna	6	4	4	4	6	5	5	4	4	4	5
18 Brightstar SLT	6	3	2	6	6	6	5	5	3	4	6
19 CL 307	6	4	4	6	6	7	6	5	5	5	7
20-Apr-20	7	5	4	7	7	6	7	6	5	5	7
21-Apr-38	6	5	4	6	6	6	6	5	5	5	7
22 PPG-PR 121	7	5	5	6	7	6	6	5	5	5	7
23 PPG-PR 128	6	5	5	6	6	5	5	6	5	5	6
24 PPG-PR 133	6	6	4	5	6	6	7	5	4	5	6
25 PPG-PR 134	6	5	4	5	6	6	7	5	5	5	7
26 LTP-PR 135	6	5	4	5	6	6	6	5	4	5	6
27 PPG-PR 136	7	5	4	6	6	7	6	6	4	4	6
28 PPG-PR 137	6	5	5	6	6	6	6	6	5	5	7
29 PPG-PR 138	7	4	4	6	6	6	5	5	5	5	6
30 PPG-PR 140	6	5	4	6	7	7	6	6	4	6	7
31 PPG-PR 142	6	5	3	6	7	6	5	5	4	5	6
32 PPG-PR 143	6	5	4	5	6	6	5	6	4	5	6
33 PPG-PR 164	6	5	5	6	5	6	6	5	5	5	6
34 PPG-PR 165	7	5	3	6	6	7	5	5	4	5	6
35 BAR Lp 10969	6	6	5	6	7	6	6	6	5	6	7
36 BAR Lp 10972	7	4	5	5	7	6	4	5	5	4	6
37 BAR Lp 10970	6	5	3	6	7	6	5	6	4	4	6

Table 1. Perennial ryegrasses quality ratings for 2012 (continued).

Cultivar	Genetic Color	Red Thread	Gray Leaf Spot	Quality ^a							Mean q
				April	May	June	July	August	Sept	October	
38 2NJK	6	4	4	6	6	6	5	5	4	5	6
39 BAR Lp 7608	5	4	4	5	6	6	5	5	4	6	6
40 Pinnacle	5	5	4	6	5	6	6	5	4	5	6
41 APR 2445	7	5	4	6	6	5	6	4	4	5	6
42 Fiesta 4	6	4	5	6	6	6	5	5	5	5	6
43 GO-G37	8	4	6	6	6	5	5	5	6	5	6
44 CS-20	8	4	6	7	7	6	5	6	6	6	7
45 ISG-36	8	4	4	6	6	6	5	5	4	5	6
46 ISG-31	8	4	4	6	6	6	5	6	5	5	6
47 A-35	9	5	6	5	5	5	5	7	6	5	6
48 CS-PR66	6	4	4	6	6	6	5	5	4	4	6
49 CST	6	6	4	5	6	6	7	6	4	6	7
50 JR-178	6	5	4	6	7	6	5	5	4	4	6
51 JR-192	6	4	3	6	6	5	4	5	3	4	6
52 PSRX-3701	7	4	3	6	7	6	6	5	4	5	6
53 Pick 10401	6	5	4	6	6	7	6	6	5	6	7
54 Mach I	7	3	4	6	6	6	5	5	4	4	6
55 RAD-PR62	6	6	7	6	5	6	6	7	6	6	7
56 RAD-PR55R	7	4	4	6	7	6	5	6	4	5	6
57 IS-PR 409	7	4	3	5	6	6	4	4	3	5	6
58 IS-PR 463	7	5	4	6	7	7	5	5	4	4	6
59 IS-PR 469	6	5	3	7	7	7	6	5	3	5	7
60 IS-PR 479	7	4	4	5	6	5	5	5	4	4	6
61 IS-PR 487	6	6	4	6	6	6	7	5	5	6	7
62 IS-PR 488	6	3	3	6	6	5	4	5	3	4	6
63 IS-PR 489	6	5	4	6	7	6	6	5	5	5	7
64 IS-PR 491	7	4	4	6	7	6	6	6	4	5	7
65 IS-PR 492	6	5	4	6	6	6	6	5	4	5	7
66 DLF LGT 4182	7	5	6	6	6	6	5	6	6	6	7
67 ISG-30	8	4	5	6	6	6	6	6	5	5	7
68 PST-204D	6	5	5	6	6	6	5	6	5	5	7
69 PST-2NKM	6	5	4	6	6	6	7	5	4	5	7
70 PST-2DR9	6	4	5	6	6	6	6	5	5	6	6
71 PST-2MG7	6	5	5	7	7	7	6	6	5	6	7
72 PST-2TQL	6	5	4	6	6	6	6	6	5	5	7
73 PST-2AG4	6	4	2	7	6	7	5	6	4	4	7
74 PST-2MAGS	6	3	2	6	5	5	5	5	3	4	5
75 PST-2K9	6	3	5	6	6	6	4	6	6	6	7

Table 1. Perennial ryegrasses quality ratings for 2012 (continued).

Cultivar	Genetic Color	Red Thread	Gray Leaf Spot	Quality ^a							Mean q
				April	May	June	July	August	Sep.	October	
76 PST-2BNS	6	6	5	6	6	7	7	6	5	6	7
77 PST-2ACR	7	4	4	7	7	7	5	5	4	5	7
78 Rio Vista	7	5	5	6	6	7	6	5	5	5	7
79 Octane	6	5	3	5	7	6	6	5	4	5	6
80 Bonneville	6	5	5	6	6	6	6	5	5	5	7
81 PSRX-4CAGL	7	3	3	6	6	6	3	5	4	4	6
82 GO-DHS	8	3	5	6	6	5	5	6	5	5	6
83 GO-PR60	7	5	5	6	6	6	6	5	5	5	6
84 GM3	6	4	4	5	5	5	5	4	4	4	6
85 PRX-4GM1	6	4	4	6	6	6	5	5	4	4	6
86 SRX-4MSH	6	5	4	6	6	5	5	5	4	5	6
87 Pick 4DFHM	6	4	5	5	6	6	5	5	5	5	6
88 Palmer V	6	4	4	5	6	6	5	4	5	4	6
LSD 0.05	1	2	NS	NS	NS	NS	1	2	2	2	1

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