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Perennial Ryegrass Study

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Perennial Ryegrass 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 A1134, Horticulture, Turfgrass

Disciplines Agriculture | Horticulture

Perennial Ryegrass Study

RFR-A1134

Nick Christians, university professor Marcus Jones, assistant scientist 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 \times 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.

0	Quality ^a							
Cultivar	Cover ^b	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	ő	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	0 7		0 7	3 7	
	83				6			
18 Brightstar SLT		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	8 7	0 7	6	6	
49 CST	53	5 Л	5	6	5	6	5	
^a Demonstration and a second second		4	5	0	5	U	3	

T.I.I. 1 D	· · · · · · · · · · · · · · · · · · ·	1. 6.11 6 2010 1	1°4
Table 1. Percentage cover of	nerenniai rvegrasses in i	rne tail of Zuliu and G	ingnity ratings for 2011
Table 1.1 creentage cover of	perenniar ryegrasses m	the fail of word and t	anty ratings for worre-

^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.

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 5 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 58 IS-PR 409 45 4 6 6 6 6 7 7 7 7 50 IS-PR 409 57 5 6 7			Quality ^a						
51 JR-192 70 5 7 7 7 7 6 52 PSRX-3701 67 5 6 6 7 6 6 7 53 Pick 10401 50 4 5 7 6 6 5 5 54 Mach I 57 4 5 7 6 6 5 5 55 RAD-PR62 53 4 4 7 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 6 5 5 6 7 <		Cover ^b	May	June	July	August	September	October	
52 PSRX-37016756676753 Pick 104015045766554 Mach 15745766555 RAD-PR625344756556 RAD-PR52R6346766657 IS-PR 40945466667750 IS-PR 4636346666777760 IS-PR 4795756776666 </td <td>50 JR-178</td> <td>63</td> <td>5</td> <td>6</td> <td>7</td> <td>6</td> <td>6</td> <td>7</td>	50 JR-178	63	5	6	7	6	6	7	
53 Pick 104015045766554 Mach I5745766555 RAD-PR625344756556 RAD-PR55R6346666657 IS-PR 4094546666658 IS-PR 46363466667760 IS-PR 4795756777760 IS-PR 48760666666663 IS-PR 48970576666663 IS-PR 4897057666	51 JR-192	70	5	7	7	7	7	6	
54 Mach I5745766555 RAD-PR625344756556 RAD-PR55R6346766657 IS-PR 4094546655658 IS-PR 4636346666759 IS-PR 4695756777760 IS-PR 4795745865561 IS-PR 4876066667762 IS-PR 4885346766663 IS-PR 4897057666664 IS-PR 4916745766665 IS-PR 4926056666766 DLF LGT 41825746766567 ISG-307046856570 PST-20HD6046666670 PST-20HD6746766671 PST-2MG77356666672 PST-2TQL6746766674 PST-2AG47055666677 PST-2AG5756666679 Octane70	52 PSRX-3701	67	5	6	6	7	6	7	
55 RAD-PR625344756556 RAD-PR55R6346766657 IS-PR 4094546655658 IS-PR 4636346666759 IS-PR 4695756777760 IS-PR 4795745865561 IS-PR 4876066666663 IS-PR 4897057666664 IS-PR 4916745766665 IS-PR 4926056666665 IS-PR 4926056666667 ISG-307046856567 ISG-307046666669 PST-20HD6046666670 PST-20R95756666671 PST-2AG47056666672 PST-2ACR5756666678 Rio Vista6355755578 Rio Vista6355755583 GO-PR606345766684 GM360	53 Pick 10401	50	4	5	7	6	6	5	
56 RAD-PR5SR 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 7 7 $50 IS-PR 479$ 57 4 5 8 6 5 5 $61 IS-PR 479$ 57 4 5 8 6 5 5 $61 IS-PR 488$ 53 4 6 7 6 6 6 $63 IS-PR 489$ 70 5 7 6 6 6 6 $64 IS-PR 489$ 70 5 7 6 6 6 6 $64 IS-PR 492$ 60 5 6 6 6 6 6 $66 DFI-LGT 4182$ 57 4 6 7 6 6 5 $68 PST-204D$ 60 4 6 6 6 6 6 $70 PST-2DR9$ 57 5 6 6 6 6 6 $71 PST-2MG7$ 73 5 6 6 6 6 6 $72 PST-22NAG4$ 70 5 6 6 6 6 6 $77 PST-2AG4$ 70 5 6 6 6 6 6 $79 Octane$ 70 5 5 7 6 6 6 6 $80 Donneville$ 67 5 7 5 5 <td>54 Mach I</td> <td>57</td> <td>4</td> <td>5</td> <td>7</td> <td>6</td> <td>6</td> <td>5</td>	54 Mach I	57	4	5	7	6	6	5	
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59 IS-PR 46957567777760 IS-PR 4795745865561 IS-PR 4876066667762 IS-PR 4885346766663 IS-PR 4897057666664 IS-PR 4916745766665 IS-PR 4926056666760 DLF LGT 41825746766567 ISG-307046856568 PST-204D6046666669 PST-2NKM7346666670 PST-2DR95756666671 PST-2AG47056666672 PST-2TQL6745666673 PST-2AG47055666675 PST-2K95345667577 PST-2ACR5755766679 Octane7055755581 OSNX-4CAGL5045766682 GO-DHS63557555583		45	4	6	6	5	5	6	
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88 Palmer V 60 4 5 6 5 6 5			-					5	
								3	

Table 1 (continued). Percer	ntage cover of perennial ryeg	rasses in the fall of 2010 an	d quality ratings for 2011.
			8

^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.