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NTEP Turf Type Tall Fescue Study 2014

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Abstract

The National Turfgrass Evaluation Program (NTEP) conducts trials throughout the United States on turfgrass adaptation. This trial was established in September 2012 as a part of the NTEP program. This is the second year data have been collected on this trial. It contains 116 turf type tall fescue cultivars.

Keywords

Horticulture, Turfgrass

Disciplines

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NTEP Turf Type Tall Fescue 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 2012 as a part of the NTEP program. This is the second year data have been collected on this trial. It contains 116 turf type tall fescue cultivars.

Materials and Methods

The individual plots measure 5 ft × 5 ft and the study was replicated three times. Quality ratings were conducted monthly in 2014. Spring greenup data were taken on May 5, 2014, while genetic color and texture uniformity was taken in early September. 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. In the case of color and uniformity, a 9 is the darkest green color and a 9 is the most uniform turf. The plots were only irrigated to prevent dormancy.

Results and Discussion

Table 1 contains spring greenup, genetic color, texture uniformity, and quality ratings for the 2014 season. The mean quality rating was calculated for each cultivar. There were significant differences in the mean quality, spring greenup, texture uniformity, and genetic color ratings for the year. We will continue to take data for three more years. The data also is submitted to NTEP each year and will be included in their yearly report with data from the other states conducting this trial. The data can be found at www.ntep.org.

Acknowledgements

Table 1. Turf type tall fescue quality ratings for 2014.

No.	Cultivar	Spring greenup	Quality[1]						Mean Q	Texture uniformity[2]	Genetic color[3]
			May	June	July	Aug	Sept	Oct			
1	Terrano	5	7	6	7	7	7	7	7	7	7
2	Ky-31	5	4	4	4	4	4	4	4	4	4
3	Regenerate	6	7	7	8	9	8	8	8	8	8
4	Fesnova	5	6	6	7	8	8	8	7	7	7
5	ZW 44	6	7	7	7	9	8	8	8	8	8
6	W45	6	7	7	7	9	8	8	8	8	9
7	U43	6	6	7	7	8	8	7	7	8	8
8	LSD	5	7	7	7	8	7	7	7	7	7
9	Aquaduct	3	6	6	6	6	6	7	6	6	6
10	Catalyst	6	7	7	7	8	7	7	7	8	8
11	Marauder	4	6	6	6	6	6	6	6	6	6
12	Warhawk	4	6	7	6	6	6	6	6	6	6
13	Annihilator	4	6	5	6	6	6	6	6	6	6
14	Comp. Res.	4	6	6	6	6	6	6	6	6	6
15	204 Res. Blk4	5	6	6	6	6	6	6	6	6	6
16	JS 819	5	6	7	7	7	6	7	7	6	6
17	JS 818	5	7	7	7	6	6	6	7	6	6
18	JS 809	4	7	6	7	6	7	7	7	6	6
19	JS 916	5	6	7	7	8	7	7	7	8	8
20	JS 825	5	6	6	6	6	7	7	6	6	6
21	MET 1	6	7	7	7	8	7	7	7	8	8
22	F711	6	7	7	6	8	7	7	7	7	8
23	IS-TF 291	5	7	7	7	9	8	7	8	8	8
24	IS-TF 276 M2	5	7	7	8	7	7	7	7	7	7
25	IS-TF 305 SEL	5	6	6	6	7	7	7	7	7	7
26	IS-TF 269 SEL	5	7	7	7	8	7	7	7	7	7
27	IS-TF 282 M2	5	6	6	7	7	7	6	7	7	7
28	IS-TF 284 M2	5	6	6	8	8	7	7	7	7	7
29	OR-21	5	6	8	7	7	7	7	7	7	7
30	TY 10	5	6	7	7	7	7	7	7	7	7
31	Exp TF-09	5	7	7	7	7	7	7	7	7	7
32	SRX-TPC	5	6	7	7	7	7	6	7	7	8
33	PSG-WE1	6	6	6	7	8	7	7	7	8	8
34	Pick-W43	6	7	7	7	8	8	8	8	8	9
35	Grade 3	4	6	6	7	7	7	7	7	7	8
36	PSG-PO1	6	7	7	7	8	8	7	7	7	7
37	U45	6	7	7	7	8	8	7	7	8	8
38	B23	6	7	7	8	9	8	7	7	8	8
39	ATF 1612	5	6	7	7	8	7	7	7	7	7
40	ATF 1704	5	6	6	6	7	7	7	7	7	7
41	Burl TF-2	6	7	7	7	8	7	7	7	8	8
42	Burl TF-136	6	7	7	7	8	8	8	7	8	8
43	LTP-FSD	6	7	6	7	8	7	7	7	7	7
44	LTP-TWUU	6	7	7	7	8	7	8	7	7	7
45	LTP-F5DPDR	6	7	7	7	7	7	7	7	7	7
46	IS-TF 289	5	8	7	8	8	8	7	8	8	8
47	MET 6 SEL	5	6	6	7	8	7	7	7	7	8
48	IS-TF 330	5	7	7	8	8	8	7	8	8	9
49	TF-287	5	6	6	6	7	7	6	6	7	7
50	IS-TF 307 SEL	5	7	7	7	7	7	7	7	7	8

Table 1. Turf type tall fescue quality ratings for 2014 (continued).

No.	Cultivar	Spring greenup	Quality[1]						Mean Q	Texture uniformity[2]	Genetic color[3]
			May	June	July	Aug	Sept	Oct			
51	IS-TF 308 SEL	5	7	6	7	7	7	7	7	7	7
52	IS-TF 311	6	7	7	7	7	7	7	7	7	8
53	IS-TF 285	5	7	7	7	7	7	7	7	6	6
54	IS-TF 310 SEL	5	6	6	6	7	7	6	6	7	7
55	IS-TF 272	5	6	6	6	8	7	7	7	7	8
56	ATF 1736	5	6	6	7	7	7	7	7	7	7
57	ATF 1754	5	7	7	7	8	7	7	7	7	7
58	Hemi	5	6	6	7	8	7	7	7	8	8
59	Firebird 2	6	7	6	7	8	7	7	7	8	8
60	Bullseye	5	6	7	7	8	7	7	7	8	8
61	PST-5EV2	5	6	6	7	8	8	7	7	8	8
62	PST-5GRB	5	6	7	7	7	7	7	7	7	7
63	PST-5SALT	5	6	6	6	7	7	7	7	7	7
64	PST-5SDT	5	7	6	7	7	7	6	7	6	6
65	PST-5DZP	4	6	6	7	7	7	6	7	7	7
66	PST-5RO5	4	6	6	7	7	7	7	7	7	7
67	PST-5BPO	5	6	7	7	7	7	7	7	7	7
68	PST-5BRK	4	7	6	7	8	7	7	7	7	7
69	DB1	5	7	7	7	8	8	7	7	7	7
70	RZ2	6	7	7	7	8	8	7	7	7	7
71	TD1	4	6	7	8	8	7	7	7	7	8
72	DZ1	5	7	7	7	7	7	7	7	7	7
73	T31	6	7	6	7	8	7	7	7	8	9
74	PSG-GSD	5	6	6	7	7	7	7	7	7	7
75	PSG-8BP2	5	6	6	6	7	7	6	6	7	7
76	PSG-TT4	5	6	6	6	7	7	6	7	7	7
77	Faith	5	7	7	7	7	7	7	7	8	8
78	K12-13	5	6	6	6	7	6	6	6	6	7
79	K12-05	5	7	6	7	8	7	7	7	8	8
80	PPG-TF-156	5	7	6	7	7	7	7	7	7	7
81	PPG-TF-157	6	7	8	7	8	8	7	7	7	8
82	PPG-TF-169	6	6	7	7	8	8	7	7	8	8
83	PPG-TF-170	6	6	7	6	7	7	6	7	7	8
84	PPG-TF-137	5	7	6	7	8	8	7	7	7	7
85	PPG-TF-135	6	7	7	7	8	7	8	7	8	9
86	PPG-TF-115	5	6	6	7	8	7	6	7	7	8
87	PPG-TF-105	5	7	7	7	8	8	7	7	7	8
88	PPG-TF-172	6	7	7	7	8	7	7	7	8	8
89	PPG-TF-151	5	6	7	7	8	7	7	7	8	8
90	PPG-TF-152	5	7	7	7	8	7	7	7	8	8
91	PPG-TF-148	6	6	6	7	8	7	7	7	8	8
92	PPG-TF-150	5	7	7	6	8	8	7	7	8	8
93	Bizem	6	7	7	7	9	8	7	7	8	8
94	CCR2	6	7	7	8	8	7	7	7	8	8
95	MET-3	5	6	7	7	8	7	7	7	7	8
96	W41	6	7	7	7	8	7	7	7	8	8
97	PPG-TF-145	5	7	7	7	7	7	7	7	7	7
98	PPG-TF-138	5	7	6	7	8	7	6	7	7	8
99	PPG-TF-139	5	7	7	7	8	7	7	7	8	8
100	PPG-TF-142	5	7	7	7	7	7	6	7	7	8
101	RAD-TF-89	5	7	7	7	8	7	7	7	8	8
102	RAD-TF-92	5	7	7	6	7	7	7	7	7	8
103	GO-DFR	5	6	6	7	7	7	7	7	7	7
104	K12-MCD	5	6	7	7	7	7	7	7	7	7

Table 1. Turf type tall fescue quality ratings for 2014 (continued).

No.	Cultivar	Spring greenup	Quality[1]						Mean Q	Texture uniformity[2]	Genetic color[3]
			May	June	July	Aug	Sept	Oct			
105	PST-5EX2	6	6	6	6	7	7	7	7	7	7
106	PST-5MVD	6	7	7	6	7	7	7	7	7	7
107	RAD-TF-83	5	6	6	7	8	8	7	7	7	8
108	RAD-TF-88	5	6	6	6	7	7	6	6	7	7
109	BAR Fa 120878	5	6	6	6	6	6	6	6	6	5
110	BAR Fa 121089	5	6	6	6	7	7	7	7	7	7
111	BAR Fa 121091	4	6	6	6	6	6	7	6	6	6
112	BAR Fa 121095	4	6	7	6	6	6	6	6	6	6
113	PST-R5NW	5	7	7	7	7	7	7	7	7	7
114	Burl TF-69	5	6	6	6	7	7	7	7	7	7
115	Falcon IV	6	6	7	7	7	7	7	7	7	7
116	Falcon V	6	7	6	7	8	8	7	7	7	7
	LSD 0.05	1	1	1	1	1	1	1	1	1	1

[1]Quality rated on a 1 to 9 scale with 9 = best quality, 1 = lowest quality, and 6 = lowest commercially acceptable
[2]Texture uniformity rated on a 1 to 9 scale with 9 = most uniform, 1 = least uniform, and 6 = lowest commercially acceptable
[3]Genetic color rated on a 1 to 9 scale with 9 = darkest green, 1 = brown turf, and 6 = lowest commercially acceptable