NTEP Turf-Type Tall Fescue Study 2015

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Dan Strey, research associate Nick Christians, university professor 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 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 by 5 ft and the study is replicated three times. Quality ratings were conducted monthly in 2014. Spring greenup data was taken on May 8, 2015, while genetic color and texture uniformity was taken in mid-August. Ratings are 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 2015 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 two more years. The data also are submitted to NTEP each year and will be included in their yearly report with data from all of the other states 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.

	<u>Turf-type tall fescue c</u> Cultivar										
No.		Spring	May	June	July	Aug	Sept	Oct	Mean Q	Texture uniformity ²	Genetic color ³
1	Terrano	greenup 5	7	7	<u>July</u> 8	<u>Aug</u> 7	<u> </u>	7	<u> </u>	7	7
2	Ky-31	3	4	4	4	4	4	4	4	4	4
3	Regenerate	6	7	7	8	8	8	8	8	7	8
4	Fesnova	6	7	7	7	8	8	7	7	, 7	8
5	ZW 44	6	7	7	8	9	8	7	8	8	8
6	W45	6	7	8	8	9	8	7	8	8	8
7	U43	6	6	8 7	8	8	8	8	8	8	8
8	LSD	6 5	7	7	8	8	8	7	8 7	8 7	8 7
9	Aquaduct	5	6	6	6	7	6	6	6	6	6
10	Catalyst	6	7	7	8	8	7	7	7	0 7	0 7
10	Marauder	6 5	6	6	о 6	6 6	6	5	6	6	6
12	Warhawk			6	6	7	6		6	6	
12		6	6					6			6
	Annihilator	5	6	5	6	6	6	6	6	6	6
14	Comp. Res.	5	6	7	7	7	6	6	7	6	7
15	204 Res. Blk4	5	6	5	5	6	6	6	6	5	6
16	JS 819	6	6	7	7	7	7	6	7	6	7
17	JS 818	6	7	8	7	7	7	6	7	6	7
18	JS 809	5	7	7	7	7	7	7	7	7	7
19	JS 916	6	7	7	8	8	7	7	7	7	7
20	JS 825	5	7	7	7	7	7	6	7	6	7
21	MET 1	6	7	7	8	8	7	7	8	8	7
22	F711	6	7	7	7	8	7	7	7	7	7
23	IS-TF 291	6	7	8	8	8	8	7	8	8	8
24	IS-TF 276 M2	6	7	7	8	8	7	7	7	7	7
25	IS-TF 305 SEL	6	7	7	7	8	7	7	7	7	7
26	IS-TF 269 SEL	6	7	8	8	8	8	7	8	7	7
27	IS-TF 282 M2	5	7	7	8	7	7	6	7	7	7
28	IS-TF 284 M2	6	7	7	8	8	7	7	7	7	7
29	OR-21	6	7	8	8	7	7	7	7	6	7
30	TY 10	6	7	7	7	8	7	7	7	7	7
31	Exp TF-09	5	6	7	7	7	7	7	7	7	7
32	SRX-TPC	5	7	7	7	7	7	6	7	7	7
33	PSG-WE1	5	6	6	7	8	7	7	, 7	7	, 7
34	Pick-W43	6	7	7	8	8	8	8	8	8	8
35	Grade 3	5	6	6	7	8 7	7	6	7	8 7	7
36	PSG-PO1	6	7	7	8	8	8	7	7	, 7	7
30 37	U45	6	7	8	8 7	8	8 7	7	7	7	8
38	B23										
		5	7	7	8	8	8	7	8	8	8
39 40	ATF 1612	5	7	7	8	8	8	7	7	7	8
40	ATF 1704	5	6	6	7	7	7	6	6	6	-
41	Burl TF-2	5	7	7	7	8	8	7	7	8	7
42	Burl TF-136	5	6	7	7	9	8	7	8	7	8
43	LTP-FSD	5	7	7	7	7	7	7	7	7	7
44	LTP-TWUU	6	7	7	8	8	7	7	7	7	8
45	LTP-F5DPDR	6	7	7	8	8	7	7	8	7	7
46	IS-TF 289	5	7	7	8	8	7	7	7	7	7
47	MET 6 SEL	6	7	7	8	8	7	7	7	7	7
48	IS-TF 330	5	6	7	8	8	8	7	7	8	8
49	TF-287	5	6	7	7	7	6	6	6	6	7
50	IS-TF 307 SEL	6	7	7	7	7	8	7	7	7	7
51	IS-TF 308 SEL	6	6	7	7	8	7	6	7	7	7
52	IS-TF 311	6	7	7	7	7	7	7	7	7	7
53	IS-TF 285	5	7	7	7	7	7	7	7	7	7
54	IS-TF 310 SEL	5	6	7	7	7	, 7	6	7	7	, 7
55	IS-TF 272	5	7	, 7	8	8	8	7	, 7	8	8
56	ATF 1736	5	6	, 7	7	7	7	6	, 7	6	7

Table 1. Turf-type tall fescue quality ratings for 2015.

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		Spring							Mean	Texture	Genetic
No.	Cultivar	greenup	May	June	July	Aug	Sept	Oct	Q	Uniformity ²	Color ³
57	ATF 1754	6	7	7	7	8	8	7	7	7	7
58	Hemi	5	6	8	8	8	7	7	7	8	8
59	Firebird 2	5	6	7	7	7	7	7	7	7	7
60	Bullseye	6	7	7	8	8	8	7	8	7	8
61	PST-5EV2	5	6	7	8	8	8	7	7	7	7
62	PST-5GRB	5	6	7	7	8	7	7	7	7	7
63	PST-5SALT	6	7	7	7	7	7	6	7	, 7	7
64	PST-5SDT	5	7	7	7	7	7	6	7	, 7	7
65	PST-5DZP	5	7	7	7	7	6	6	7	, 7	7
66	PST-5RO5	6	7	7	7	7	7	6	7	7	7
67	PST-5RO5 PST-5BPO	6	7	7	7	7	7	7	7	7	7
68											
	PST-5BRK	6	7	7	8	8	8	7	7	7	7
69	DB1	5	7	7	8	8	8	7	7	7	8
70	RZ2	6	6	7	8	8	7	7	7	7	7
71	TD1	4	7	7	8	8	8	7	7	7	7
72	DZ1	6	7	8	7	8	7	7	7	7	8
73	T31	5	7	7	8	8	7	7	7	8	7
74	PSG-GSD	6	6	7	7	7	7	7	7	7	7
75	PSG-8BP2	6	6	7	7	6	7	6	6	6	6
76	PSG-TT4	5	6	6	7	7	7	6	6	7	6
77	Faith	6	7	7	8	8	7	7	7	7	7
78	K12-13	5	6	6	7	7	7	7	7	6	7
79	K12-05	5	7	7	8	8	8	7	7	7	7
80	PPG-TF-156	6	7	7	7	7	7	7	7	7	7
81	PPG-TF-157	6	7	8	8	8	7	7	8	7	8
82	PPG-TF-169	5	7	7	7	7	8	7	7	7	7
83	PPG-TF-170	6	7	7	7	8	7	6	7	7	7
84	PPG-TF-137	5	6	7	7	8	8	7	7	7	7
85	PPG-TF-135	6	7	, 7	8	8	8	7	8	8	8
86	PPG-TF-115	5	, 7	, 7	7	8	7	7	7	7	7
87	PPG-TF-105	6	7	, 7	8	8	, 7	7	, 7	7	8
88	PPG-TF-172	5	, 7	, 7	8	8	, 7	7	, 7	8	7
89	PPG-TF-151	6	7	7	8	7	7	7	7	8 7	7
90	PPG-TF-152	6	7	7	3 7	8	7	7	7	, 7	7
91	PPG-TF-148	6	7	7	8	8	7	7	7	7	7
92	PPG-TF-150										
92 93	Bizem	5	7	7	8	8	7	7	7	8	7
		6	7	8	8	8	8	7	8	8	8
94	CCR2	6	7	7	8	8	8	7	8	8	8
95	MET-3	6	7	7	7	8	7	7	7	7	7
96	W41	6	7	7	8	8	8	7	7	7	7
97	PPG-TF-145	5	7	8	8	8	7	7	7	7	8
98	PPG-TF-138	5	7	7	8	8	8	7	7	7	7
99	PPG-TF-139	6	7	8	7	8	8	7	7	8	8
100	PPG-TF-142	6	7	7	7	8	7	7	7	7	7
101	RAD-TF-89	5	7	8	7	8	8	7	8	7	8
102	RAD-TF-92	6	6	7	7	8	7	6	7	7	7
103	GO-DFR	5	7	7	7	7	7	7	7	7	7
104	K12-MCD	5	7	7	7	7	6	6	7	6	7
105	PST-5EX2	5	6	6	7	7	7	6	7	7	7
106	PST-5MVD	6	7	7	7	8	7	7	7	7	7
107	RAD-TF-83	6	7	, 7	8	8	7	7	7	7	7
108	RAD-TF-88	5	6	6	7	7	, 7	6	, 7	6	, 7
109	BAR Fa 120878	5	6	6	6	6	6	6	6	6	6
110	BAR Fa 121089	5	6	7	6	7	7	6	7	6	0 7
110	Diff(1 u 12100)	5	0	/	0	/	1	0	/	0	/

Table 1. Turf-type tall fescue quality ratings for 2015 (continued).

 No.	Cultivar	Spring greenup	May	June	July	Aug	Sept	Oct	Mean Q	Texture uniformity ²	Genetic color ³
111	BAR Fa 121091	5	6	7	7	7	6	6	7	6	7
112	BAR Fa 121095	5	7	7	8	7	7	6	7	6	7
113	PST-R5NW	5	7	7	7	8	7	7	7	7	7
114	Burl TF-69	6	6	7	7	7	6	6	7	7	7
115	Falcon IV	6	7	7	7	7	7	6	7	7	7
116	Falcon V	6	7	7	8	8	8	7	7	7	7
	LSD 0.05	1	1	1	1	1	1	1	1	1	1

Table 1. Turf-type tall fescue quality ratings for 2015 (continued).

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