

2017

NTEP Turf-Type Tall Fescue Study

Nick Christians

Iowa State University, nchris@iastate.edu

Adam Thoms

Iowa State University, athoms@iastate.edu

Isaac Mertz

Iowa State University, imertz@iastate.edu

Follow this and additional works at: <https://lib.dr.iastate.edu/farmprogressreports>



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

Recommended Citation

Christians, Nick; Thoms, Adam; and Mertz, Isaac (2017) "NTEP Turf-Type Tall Fescue Study," *Farm Progress Reports*: Vol. 2016 : Iss. 1 , Article 43.

DOI: <https://doi.org/10.31274/farmprogressreports-180814-1614>

Available at: <https://lib.dr.iastate.edu/farmprogressreports/vol2016/iss1/43>

This Horticulture Station is brought to you for free and open access by the Extension and Experiment Station Publications at Iowa State University Digital Repository. It has been accepted for inclusion in Farm Progress Reports by an authorized editor of Iowa State University Digital Repository. For more information, please contact digirep@iastate.edu.

NTEP Turf-Type Tall Fescue Study

RFR-A1634

Nick Christians, university professor
Adam Thoms, assistant professor
Isaac Mertz, graduate 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 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 2016. Genetic color data were taken in June 2016. Ratings are based on a scale of 9 = best quality or color and 1 = lowest quality or color. 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 genetic color and quality ratings for the 2016 season. The mean quality rating was calculated for each cultivar. There were no significant differences in the mean color ratings. Most of the monthly means and the grand mean showed differences among cultivars. We will continue to take data for one more year. 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.

Table 1. Turf-type tall fescue quality ratings for 2016.

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

Table 1. Turf-type tall fescue quality ratings for 2016 (continued).

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

Table 1. Turf-type tall fescue quality ratings for 2016 (continued).

No.	Cultivar	Gentic color ²	Quality ¹						Mean Q	
			May	June	July	Aug	Sept	Oct		
103	GO-DFR	7	7	7	7	7	7	7	8	7
104	K12-MCD	7	7	7	7	7	7	6	7	7
105	PST-5EX2	7	7	6	6	6	6	6	6	6
106	PST-5MVD	7	7	7	7	7	7	6	6	7
107	RAD-TF-83	7	8	7	7	7	7	6	7	7
108	RAD-TF-88	6	7	6	6	6	6	7	7	7
109	BAR Fa 120878	6	6	6	6	6	6	6	7	6
110	BAR Fa 121089	7	6	7	6	7	6	6	6	6
111	BAR Fa 121091	7	7	7	7	7	6	6	6	7
112	BAR Fa 121095	7	8	7	7	7	7	6	6	7
113	PST-R5NW	7	7	7	7	7	6	6	6	7
114	Burl TF-69	7	7	7	6	6	6	6	7	6
115	Falcon IV	6	7	7	7	6	7	7	6	7
116	Falcon V	7	8	7	7	7	7	7	7	7
LSD 0.05		NS	1	1	1	1	1	1	NS	1

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

²Genetic color rated on a 1 to 9 scale with 9 = darkest green, 1 = brown turf, and 6 = lowest commercially acceptable.