

NTEP Turf-Type Tall Fescue Study

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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 part of the NTEP program. This is the fifth 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 x 5 ft and the study is replicated three times. Quality ratings were conducted monthly in 2017. Genetic color data were taken in June 2017. 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 2017 season. The mean quality rating was calculated for each cultivar. There were significant differences in the mean color ratings. All of the monthly means and the grand mean showed significant differences among cultivars. This is the last year of data collection on this trial. It will be replaced by a new tall fescue trial in the fall of 2018. The data also are submitted to NTEP each year and will be included in its yearly report with data from all other states conducting this trial. The 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 2017.

No.	Cultivar	Genetic color ²	Quality ¹							Mean quality	
			April	May	June	July	Aug	Sept	Oct		
1	Terrano	7	6	7	7	7	7	6	6	7	7
2	Ky-31	6	4	5	5	5	5	5	5	5	5
3	Regenerate	7	7	8	7	7	7	7	8	7	7
4	Fesnova	7	5	6	7	7	7	7	7	7	7
5	ZW 44	8	7	7	7	7	7	8	6	7	7
6	W45	7	7	7	7	7	7	6	7	7	7
7	U43	6	7	6	7	6	7	7	7	7	7
8	LSD	6	7	7	7	7	7	6	6	6	7
9	Aquaduct	6	5	5	6	7	6	6	6	6	6
10	Catalyst	7	6	7	7	8	8	6	8	8	7
11	Marauder	6	5	6	7	6	7	7	6	6	6
12	Warhawk	5	5	6	7	7	6	7	7	7	6
13	Annihilator	6	6	6	6	8	6	6	7	7	6
14	Comp. Res.	5	6	7	7	7	7	6	7	7	7
15	204 Res. Blk4	7	7	6	6	6	6	7	7	7	7
16	JS 819	7	5	7	8	8	7	6	7	7	7
17	JS 818	6	6	8	9	7	6	8	7	7	7

Table 1. Turf-type tall fescue quality ratings for 2017 (continued).

No.	Cultivar	Genetic color ²	Quality ¹							Mean quality
			April	May	June	July	Aug	Sept	Oct	
18	JS 809	6	6	7	7	6	6	6	7	6
19	JS 916	6	6	6	6	6	6	7	7	6
20	JS 825	6	5	6	7	7	6	6	7	6
21	MET 1	6	6	7	7	6	7	7	8	7
22	F711	7	7	8	8	8	8	7	9	8
23	IS-TF 291	7	7	7	7	7	7	7	7	7
24	IS-TF 276 M2	7	7	8	8	8	8	6	7	7
25	IS-TF 305 SEL	6	6	8	7	7	7	6	7	7
26	IS-TF 269 SEL	7	7	7	8	7	7	8	7	7
27	IS-TF 282 M2	7	6	7	7	7	6	8	7	7
28	IS-TF 284 M2	7	6	8	8	7	7	8	7	7
29	OR-21	6	6	7	8	7	6	6	7	6
30	TY 10	6	6	7	8	8	6	8	7	7
31	Exp TF-09	7	6	7	8	8	7	7	7	7
32	SRX-TPC	7	6	7	7	7	7	7	7	7
33	PSG-WE1	7	6	6	6	6	7	7	7	7
34	Pick-W43	7	7	8	7	7	7	7	8	7
35	Grade 3	7	6	6	6	7	7	7	7	7
36	PSG-PO1	8	6	7	7	7	8	7	7	7
37	U45	7	7	8	7	7	7	8	8	7
38	B23	7	7	8	8	7	6	6	7	7
39	ATF 1612	5	6	7	7	7	6	6	7	7
40	ATF 1704	6	7	6	6	7	6	6	7	6
41	Burl TF-2	6	6	7	7	7	7	7	7	7
42	Burl TF-136	6	7	7	6	6	7	8	8	7
43	LTP-FSD	8	7	7	8	7	8	7	7	7
44	LTP-TWUU	7	7	7	7	7	7	8	7	7
45	LTP-F5DPDR	7	6	8	7	8	7	6	7	7
46	IS-TF 289	6	6	8	9	9	7	7	6	7
47	MET 6 SEL	7	7	7	6	7	7	8	8	7
48	IS-TF 330	7	6	7	8	7	6	7	7	7
49	TF-287	6	7	8	7	7	6	6	7	7
50	IS-TF 307 SEL	7	6	7	8	8	6	7	6	7
51	IS-TF 308 SEL	6	6	8	7	7	6	6	7	7
52	IS-TF 311	6	6	6	6	7	6	6	7	6
53	IS-TF 285	6	5	8	8	7	6	7	7	7
54	IS-TF 310 SEL	6	7	7	7	7	6	7	6	7
55	IS-TF 272	6	7	8	8	7	7	8	8	8
56	ATF 1736	7	6	7	6	7	7	7	7	7
57	ATF 1754	7	7	6	6	7	7	6	7	7
58	Hemi	6	7	7	7	7	7	7	7	7
59	Firebird 2	6	6	7	7	6	7	7	7	7
60	Bullseye	6	5	7	7	6	7	6	7	6
61	PST-5EV2	7	7	8	7	7	7	7	7	7
62	PST-5GRB	5	6	7	7	6	6	7	7	7
63	PST-5SALT	7	6	7	7	7	7	7	7	7
64	PST-5SDT	7	6	7	7	7	7	6	7	7
65	PST-5DZP	7	6	7	7	6	6	6	6	6
66	PST-5RO5	6	7	7	6	7	7	6	7	7
67	PST-5BPO	6	6	7	6	7	7	7	7	7
68	PST-5BRK	6	6	7	8	8	7	8	7	7
69	DB1	7	6	7	7	7	7	7	7	7

Table 1. Turf-type tall fescue quality ratings for 2017 (continued).

No.	Cultivar	Genetic color ²	Quality ¹							Mean quality
			April	May	June	July	Aug	Sept	Oct	
70	RZ2	6	6	7	8	8	8	8	8	7
71	TD1	6	6	7	8	8	6	7	7	7
72	DZ1	7	6	7	8	7	8	7	8	7
73	T31	6	6	6	6	6	6	7	7	6
74	PSG-GSD	6	7	7	7	6	7	6	7	7
75	PSG-8BP2	7	5	6	7	7	7	7	7	7
76	PSG-TT4	6	6	6	6	7	6	7	7	6
77	Faith	7	6	8	7	6	8	7	8	7
78	K12-13	6	6	7	7	7	7	6	7	7
79	K12-05	6	5	7	7	6	6	6	7	6
80	PPG-TF-156	6	5	7	6	6	7	7	7	6
81	PPG-TF-157	7	6	8	7	7	6	6	7	7
82	PPG-TF-169	7	6	7	7	7	7	7	7	7
83	PPG-TF-170	6	6	7	7	7	6	6	7	6
84	PPG-TF-137	6	7	7	7	7	7	7	7	7
85	PPG-TF-135	7	7	8	7	7	7	7	7	7
86	PPG-TF-115	7	6	7	7	7	7	7	7	7
87	PPG-TF-105	6	7	8	8	7	7	8	8	8
88	PPG-TF-172	6	8	7	6	6	6	7	7	7
89	PPG-TF-151	6	6	7	7	7	7	8	7	7
90	PPG-TF-152	6	6	7	6	7	6	6	7	7
91	PPG-TF-148	7	6	6	6	7	7	7	7	7
92	PPG-TF-150	7	6	7	7	6	7	7	8	7
93	Bizem	7	6	8	7	7	8	7	8	7
94	CCR2	7	6	6	7	6	7	7	7	7
95	MET-3	6	7	7	7	7	7	7	8	7
96	W41	7	7	7	7	8	8	8	8	8
97	PPG-TF-145	6	7	7	7	7	7	7	7	7
98	PPG-TF-138	6	7	8	7	8	7	7	7	7
99	PPG-TF-139	6	7	8	7	7	6	6	7	7
100	PPG-TF-142	7	5	7	8	8	6	7	6	7
101	RAD-TF-89	7	6	7	7	7	7	8	8	7
102	RAD-TF-92	6	6	7	7	7	7	7	8	7
103	GO-DFR	6	6	7	7	7	6	8	7	7
104	K12-MCD	7	7	7	7	7	7	7	7	7
105	PST-5EX2	6	7	6	6	7	7	7	8	7
106	PST-5MVD	6	6	7	7	6	7	7	7	7
107	RAD-TF-83	7	6	7	7	7	7	7	7	7
108	RAD-TF-88	5	6	7	7	6	6	7	7	7
109	BAR Fa 120878	6	5	6	6	6	6	6	6	6
110	BAR Fa 121089	6	5	6	6	6	7	6	6	6
111	BAR Fa 121091	6	5	6	7	6	7	7	7	7
112	BAR Fa 121095	6	5	7	7	7	7	6	7	7
113	PST-R5NW	7	5	6	7	7	7	7	6	7
114	Burl TF-69	7	6	7	7	7	6	7	7	7
115	Falcon IV	7	6	6	7	6	6	7	7	6
116	Falcon V	7	7	6	6	6	7	7	7	7
LSD 0.05		1	1	1	1	1	1	1	1	1

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

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