

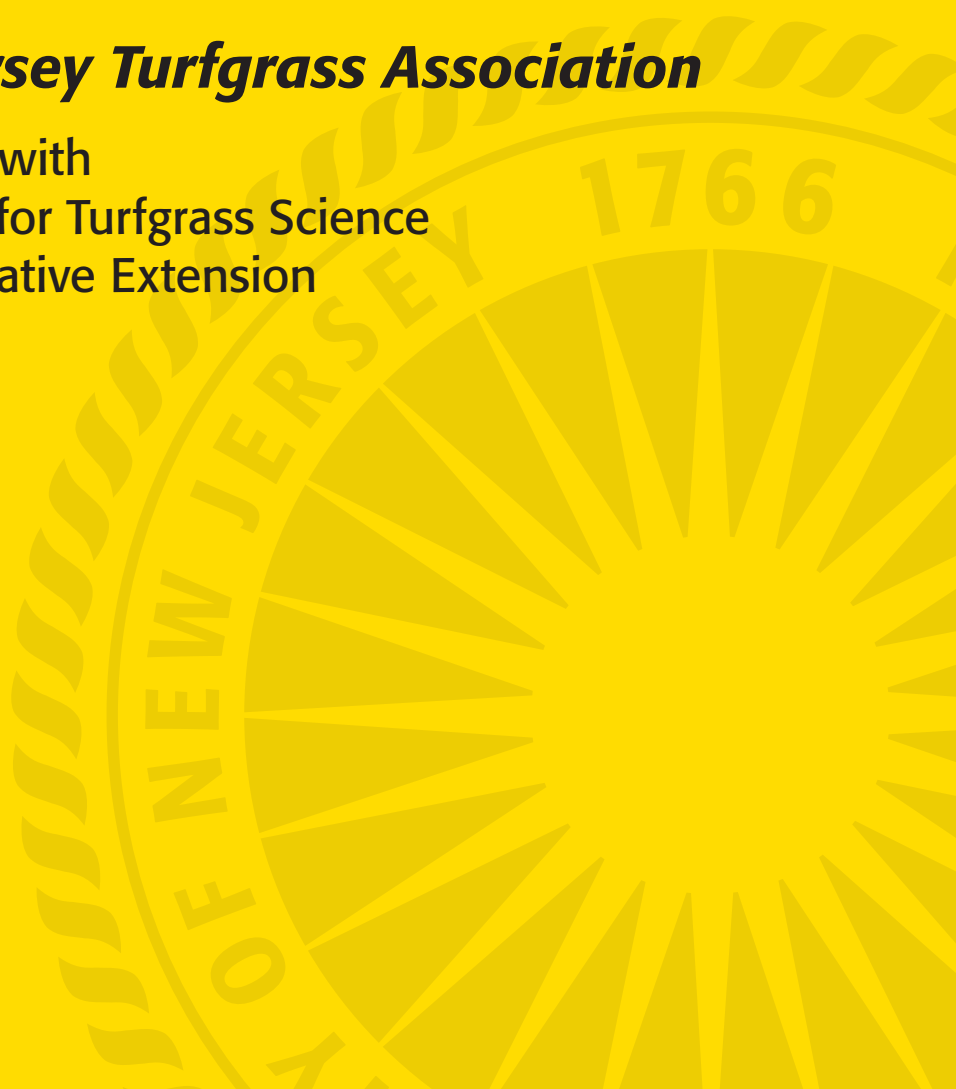
# RUTGERS

New Jersey Agricultural  
Experiment Station

## **2007 Turfgrass Proceedings**

***The New Jersey Turfgrass Association***

In Cooperation with  
Rutgers Center for Turfgrass Science  
Rutgers Cooperative Extension



# **2007 RUTGERS TURFGRASS PROCEEDINGS**

of the

## **New Jersey Turfgrass Expo December 4-6, 2007 Trump Taj Mahal Atlantic City, New Jersey**

The Rutgers Turfgrass Proceedings is published yearly by the Rutgers Center for Turfgrass Science, Rutgers Cooperative Extension, and the New Jersey Agricultural Experiment Station, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey in cooperation with the New Jersey Turfgrass Association. The purpose of this document is to provide a forum for the dissemination of information and the exchange of ideas and knowledge. The proceedings provide turfgrass managers, research scientists, extension specialists, and industry personnel with opportunities to communicate with co-workers. Through this forum, these professionals also reach a more general audience, which includes the public.

This publication includes lecture notes of papers presented at the 2007 New Jersey Turfgrass Expo. Publication of these lectures provides a readily avail-

able source of information covering a wide range of topics and includes technical and popular presentations of importance to the turfgrass industry.

This proceedings also includes research papers that contain original research findings and reviews of selected subjects in turfgrass science. These papers are presented primarily to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

Special thanks are given to those who have submitted papers for this proceedings, to the New Jersey Turfgrass Association for financial assistance, and to Barbara Fitzgerald and Marlene Karasik for administrative and secretarial support.

Dr. Ann Brooks Gould, Editor  
Dr. Bruce B. Clarke, Coordinator

## PERFORMANCE OF TALL FESCUE CULTIVARS AND SELECTIONS IN NEW JERSEY TURF TRIALS

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Tall fescue (*Festuca arundinacea* Schreb.) is a cool-season grass native to Europe and parts of Africa. The grass was introduced to the United States in the 1800s when settlers planted it as a forage grass. After the release of the first tall fescue cultivars in the 1940s, the turfgrass was used to reduce soil erosion along roadsides and waterways. Although tall fescue thrives in a broad range of environments, due largely to excellent heat and drought tolerance, these earlier cultivars lacked the overall turf quality for use in home lawns.

It was not until the cultivar Rebel was released in 1979 (Funk et al., 1981) that tall fescue was considered for use in home lawns. Since that time, turf breeders have improved the grass to produce cultivars with a darker color, finer leaf texture, lower growth habit, denser turf canopy, and increased resistance to disease. Recent tall fescue releases can now be used effectively for a number of medium-high maintenance turf situations including athletic fields, parks, home lawns, and roughs on some golf courses. Tall fescue is widely adapted to many soil types and does not require as many fertilizer inputs as most other turfgrasses. In addition, this species has a deep rooting system and thus performs well under low soil moisture. Many of the improved tall fescue cultivars are comparable to other cool-season turfgrass species in terms of turf quality at mowing heights of 1.5-inch and higher.

Currently, significant research is dedicated to examining the beneficial role of endophytes in tall fescue. Endophytes are fungi that live in the leaf sheath and stem tissues of tall fescue plants and release alkaloids that have been shown to enhance drought and insect tolerance. Another major focus of the turfgrass breeding program is to develop effective

techniques that can be used to screen tall fescue for various traits of interest such as disease resistance and wear tolerance. In addition, breeders continue to collect germplasm with potentially beneficial genes that can be incorporated into the breeding program. Such tactics are crucial for developing improved turfgrass cultivars.

### PROCEDURES

Five tall fescue tests were established at the Rutgers Plant Biology and Pathology Research and Extension Farm in Adelphia, NJ between 2003 and 2006 (Tables 1 to 5). All tests were established in August or September by hand sowing 0.88 oz of seed per 3 x 5 ft plot (3.7 lb/1000 ft<sup>2</sup>) and were arranged in a randomized complete block design with three replications. Each plot had a 6-inch unseeded border to limit contamination.

Broadleaf weeds were controlled with spring or fall applications of 2,4-D, dicamba (Banvel), and MCPP. Dithiopyr (Dimension) was applied in the spring to control annual grassy weeds. In July, metaxyl (Subdue) was applied to prevent Pythium root rot. Single applications of fertilizer did not exceed 1.0 lb nitrogen/1000 ft<sup>2</sup>. The amount and timing of nitrogen applied to turf varied to encourage disease and other stresses. Tests were mowed regularly (approximately 2 to 3 times per week) with reel mowers to maintain a 1.5-inch height of cut. The annual rate of nitrogen applied as well as mowing height for each test is presented in Table 6. Based on soil test results, lime was applied as needed to maintain a pH of 6.0 to 6.5. All tests were irrigated when necessary to avoid drought stress.

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All tests were rated throughout the growing season for visual turf quality (i.e., overall appearance, turf color, uniformity, density, mowing quality, reduced rate of vertical growth, leaf texture, and damage due to insects and diseases). Other ratings such as establishment, spring green-up, color, wear, wear recovery, and disease were documented when significant differences were evident. Most ratings were based on a 1 to 9 scale, where 9 represented the best turf characteristic. Establishment, however, was rated on a percentage basis (0 to 100%). Plots were evaluated by a number of turfgrass specialists to reduce the impact of personal bias for particular characteristics. All data were summarized and subjected to an analysis of variance. Means were separated using Fisher's protected least significant difference (LSD) means separation test.

Tall fescue tests established from 2004 to 2006 (Tables 2 to 5) were inoculated with two isolates of *Rhizoctonia solani*, the fungus that causes brown patch, in June at a rate of 0.2 g/m<sup>2</sup> of inoculum. The 2004 and 2005 (Tables 2 and 4) tall fescue tests were screened for wear tolerance. During August to October, a novel wear machine (Bonos et al., 2001) was used to apply wear uniformly over each turf plot. Only half of the turf plot received wear while the other half of the turf plot was left untreated. A total of 22 passes from the wear machine were applied to the 2004 test and a total of 18 passes from the wear machine were applied to the 2005 test.

## RESULTS AND DISCUSSION

Results of the tall fescue tests are found in Tables 1 through 5. All tests are ranked by the overall (multiple-year) turf quality average. A high quality average is generally indicative of better disease resistance, a darker green color, greater density and uniformity, finer leaf texture, lower growth habit, improved mowing quality, and less damage due to insects.

### Turf Quality

Each year noticeable improvements in overall turf quality are evident in the newly released cultivars of tall fescue. This turfgrass is a suitable choice for most cool-season turfgrass situations due to advancements made by turf breeders in color, leaf texture, and density. Cultivars such as Millennium SRP, Falcon IV, and Six Point performed consistently well in most trials. Note that in many cases, a cultivar developed in 2003 ranked very high in the turf trial established

that year, but when compared to more recently development entries, the same cultivar ranked lower in a test seeded just 2 or 3 years later. This is due to the rapidity with which overall turf quality can be improved in tall fescue. Turfgrass managers are encouraged to continually study all available data so that the best cultivars can be selected for each turf situation.

### Disease Resistance

The major disease of tall fescue in warm, humid environments is brown patch. As of yet, there are no turf-type tall fescue cultivars with complete resistance to this disease. When environmental conditions favoring disease development are present, some damage will be sustained by all available cultivars. The brown patch data in Tables 2 to 5 indicate that while significant differences existed between cultivars and selections, each plot was affected by the disease to some degree. Cultivars such as Shenandoah III, Cochise III, and Millennium SRP displayed moderate to excellent resistance to brown patch over multiple locations.

### Wear Tolerance

One characteristic that limits the use of tall fescue for turf situations such as athletic fields is its slow recovery after traffic stress occurs. Identifying experimental selections and cultivars of tall fescue that are able to recover quickly from damage caused by wear would have a great impact on the utility of tall fescue. Initial wear damage as well as wear recovery ratings taken 10 and 20 days after wear was applied to tall fescue turf plots are reported in Tables 2 and 4. Cultivars Inferno, Six Point, Shenandoah III, and Millennium SRP all were highly tolerant of wear.

## SUMMARY

As plant breeders continue to develop cultivars with improved turf quality and disease resistance, tall fescue is certain to be used more widely in the turf industry. Due to improvements in shade tolerance, density, leaf texture, and color, tall fescue has become a more popular selection for many turfgrass situations. These improvements have also made it possible for tall fescue to be used effectively in mixtures with other turfgrass species, especially Kentucky bluegrass (*Poa pratensis* L.). Tall fescue performs better than most other cool-season turfgrasses under high temperature and low moisture conditions, due in part to its extensive, deep root system. Endophyte-

infected tall fescue cultivars are useful in certain stress situations and will continue to be studied. The major weakness of tall fescue is its susceptibility to brown patch, thus the Rutgers breeding program is focusing on developing cultivars that can better handle brown patch disease pressure.

#### **ACKNOWLEDGMENTS**

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Table 1. Performance of tall fescue cultivars and selections in a turf trial established in September 2003 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
1	ATO	6.7	6.4	6.6	7.4	6.3
2	MST	6.3	5.9	6.1	7.2	5.9
3	Falcon IV	6.1	6.2	5.7	6.4	6.2
4	ATF-1041	6.0	6.1	5.9	6.6	5.6
5	Six Point	6.0	6.0	5.8	6.5	5.8
6	IS-TF-80	6.0	5.9	5.7	6.2	6.2
7	Justice	5.9	5.9	5.5	6.5	5.8
8	Padre	5.9	5.7	5.9	6.3	5.8
9	RAD-TF 8	5.9	5.8	5.9	6.1	5.6
10	RAD-TF 10	5.8	5.9	5.3	6.3	5.8
11	ATF-1089	5.8	6.0	5.6	6.2	5.5
12	IS-TF-93	5.8	5.6	5.5	6.0	5.9
13	IS-TF-94	5.7	6.0	5.6	6.0	5.3
14	ATF-1092	5.7	6.1	5.5	6.3	5.1
15	ATF-1108	5.7	5.6	5.6	5.9	5.8
16	ATF-1109	5.7	5.9	5.5	5.9	5.5
17	DaVinci	5.7	5.3	5.7	6.0	5.6
18	TF 7	5.6	5.7	5.3	6.1	5.3
19	ATF-1093	5.6	6.1	5.3	6.0	5.0
20	SRX CARH2	5.6	5.7	5.4	6.0	5.2
21	ATF-1038	5.6	5.8	5.5	5.6	5.5
22	ATF-1036	5.6	5.7	5.1	6.1	5.4
23	ATF-1040	5.5	5.7	5.4	5.8	5.3
24	Finelawn Elite	5.5	5.7	5.4	5.6	5.4
25	Raptor	5.5	5.6	5.0	5.6	5.8
26	ATF-1107	5.5	5.6	5.4	6.1	4.9
27	RAD-TF 16	5.5	5.6	5.2	5.8	5.3
28	Blackwatch	5.5	5.3	5.6	5.7	5.4
29	ATF-1090	5.5	5.4	5.3	5.9	5.3
30	ATF-1096	5.5	5.7	5.4	5.7	5.1
31	EA 185	5.5	5.8	5.2	5.7	5.2
32	PSW# 212	5.5	5.5	5.0	5.9	5.4
33	ATF-1067	5.5	5.7	5.4	5.7	5.1
34	ATF-1095	5.5	5.7	5.2	5.7	5.3
35	Hounddog 6	5.5	6.3	4.4	5.5	5.7

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
36	SRX CABE5	5.4	5.5	5.0	5.6	5.7
37	Cortez II	5.4	5.7	5.1	5.7	5.1
38	ATF-1112	5.4	5.3	5.3	5.6	5.4
39	RAD-TF 2	5.4	5.4	5.3	5.4	5.4
40	TF 18	5.4	5.4	5.4	5.4	5.4
41	Cayenne	5.4	5.7	4.7	5.5	5.7
42	ATF-1088	5.4	5.9	5.0	5.6	5.0
43	PSW# 201	5.4	5.2	5.2	5.8	5.2
44	SRX CABE4	5.4	5.5	4.7	5.7	5.6
45	PSW# 202	5.4	5.5	5.4	5.9	4.7
46	PSW# 206	5.4	5.8	4.6	5.5	5.6
47	Guardian-21	5.3	5.7	5.0	5.3	5.4
48	ATF-929	5.3	5.6	5.1	5.5	5.1
49	ATF-1110	5.3	5.6	4.9	5.5	5.4
50	Scorpion 2	5.3	5.3	4.9	5.4	5.7
51	ATF-1111	5.3	5.6	4.8	5.6	5.2
52	ATF-1100	5.3	5.5	4.9	5.7	5.2
53	ATF-1080	5.3	5.7	5.1	5.6	4.8
54	ATF-1034	5.3	5.5	5.3	5.4	5.0
55	SRX CABE3	5.3	5.5	4.6	5.4	5.5
56	ATF-866	5.2	4.9	5.1	5.8	5.2
57	IS-TF-79 E-	5.2	5.2	4.9	5.6	5.3
58	PSW# 203	5.2	5.2	5.0	5.6	5.1
59	Magellan	5.2	5.2	4.7	5.6	5.3
60	PSW# 204	5.2	5.7	4.6	5.3	5.1
61	TF Z-96	5.2	5.3	4.9	5.1	5.4
62	ATF-1105	5.2	5.5	5.3	4.8	5.1
63	ATF-1106	5.1	5.1	5.0	5.3	5.1
64	SRX CAV91	5.1	5.2	4.6	5.5	5.2
65	PSW# 207	5.1	5.4	4.4	5.2	5.4
66	ATF-1070	5.1	5.4	4.4	5.3	5.3
67	ATF-1035	5.0	5.2	4.7	5.3	4.9
68	SR 8550	5.0	5.2	4.7	5.2	5.0
69	SRX CABE2	5.0	4.8	4.7	5.2	5.4
70	ATF-1104	5.0	5.0	5.0	5.3	4.6

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
71	SRX CADD	5.0	5.3	4.4	5.3	5.0
72	ATF-1039	5.0	4.9	4.6	5.3	5.1
73	ATF-1091	5.0	5.1	4.9	5.0	4.9
74	PSW# 200	5.0	5.0	4.6	5.2	5.1
75	Forte	5.0	5.3	4.4	5.0	5.2
76	2nd Millennium	5.0	5.6	4.3	5.0	4.9
77	Finesse II	4.9	5.2	4.7	4.9	4.9
78	SRX 8FFT	4.9	5.5	4.3	4.9	5.0
79	ATF-1066	4.9	5.1	4.3	5.2	5.1
80	SRX CAFT2	4.9	5.5	4.4	4.9	4.9
81	SRX CARH1	4.9	4.8	4.9	5.3	4.7
82	ATF-1083	4.9	5.1	4.9	4.8	4.8
83	MA 184	4.9	5.1	4.6	5.2	4.6
84	Prestige	4.9	5.2	4.3	5.2	4.8
85	SRX CA861	4.9	5.5	4.1	5.0	5.0
86	PSW# 213	4.9	4.9	4.6	4.8	5.3
87	ATF-1101	4.9	4.9	4.8	5.3	4.4
88	ATF-1073	4.9	5.1	4.8	5.2	4.4
89	RAD-TF 4	4.9	5.0	4.5	5.1	4.8
90	Biltmore	4.9	5.1	4.1	5.0	5.1
91	Scorpion	4.8	4.9	4.3	5.1	5.0
92	AZ1MP-3A	4.8	4.6	4.6	4.9	5.2
93	Regiment	4.8	5.1	4.5	4.8	4.8
94	Sitka T.T.	4.8	5.1	4.8	4.8	4.5
95	TF FD-97	4.8	5.4	3.8	4.9	5.1
96	ATF-1068	4.8	5.0	5.1	4.8	4.3
97	ATF-1097	4.8	5.5	3.7	5.0	4.9
98	Riverside	4.8	5.2	4.3	5.0	4.6
99	PSW# 208	4.8	5.2	4.0	5.1	4.8
100	ATF-1064	4.8	5.1	4.2	5.0	4.8
101	RAD-TF 17	4.8	5.1	4.4	5.0	4.5
102	Bingo	4.8	5.5	4.0	4.8	4.7
103	Titanium	4.8	4.5	4.8	4.9	4.9
104	AZ1MP-3B	4.8	4.8	4.5	4.8	4.9
105	BAR Fa 1005	4.7	5.5	3.7	4.8	5.0

(Continued)



Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
106	FA DC-97-98	4.7	4.9	4.3	4.9	4.8
107	ATF-1043	4.7	4.9	4.3	4.9	4.7
108	Stonewall	4.7	5.3	4.0	4.7	4.8
109	ATF-1046	4.7	5.3	4.2	4.8	4.3
110	ATF-1075	4.7	4.7	4.5	4.9	4.5
111	ATF-1102	4.7	4.6	4.6	4.8	4.6
112	PSW# 205	4.7	4.9	4.4	4.5	4.9
113	ATF-804	4.6	5.1	4.1	4.8	4.6
114	ATF-1074	4.6	4.7	4.5	4.8	4.5
115	JT-6	4.6	5.1	4.2	4.6	4.6
116	Millennium	4.6	4.7	4.9	4.5	4.5
117	00-BFA	4.6	5.1	4.1	4.7	4.7
118	ATF-1078	4.6	4.5	4.5	4.7	4.8
119	Pick ZMG	4.6	5.0	4.1	4.7	4.7
120	ATF-1098	4.6	4.7	4.1	4.9	4.6
121	Plantation	4.6	5.1	4.2	4.6	4.4
122	ATF-1072	4.6	4.7	4.3	4.7	4.6
123	PSW# 211	4.6	5.2	4.0	4.3	4.8
124	Rendition	4.6	5.3	3.8	4.3	4.9
125	ATF-894	4.6	4.9	4.2	4.7	4.4
126	Quest	4.6	4.9	4.0	4.6	4.7
127	Signia	4.6	5.0	4.0	4.4	4.8
128	Gremlin	4.5	5.3	4.0	4.5	4.3
129	ATF-1042	4.5	5.3	4.4	4.3	4.2
130	Mustang 3	4.5	4.8	3.8	4.6	4.9
131	ATF-1085	4.5	4.5	4.2	4.7	4.7
132	Barrington	4.5	4.8	4.1	4.5	4.6
133	TF BA-97	4.5	4.9	3.9	4.6	4.5
134	Rebel Sentry	4.5	4.9	4.1	4.4	4.4
135	BAR Fa 1CR7	4.5	5.6	3.8	4.2	4.2
136	ATF-1079	4.5	4.5	4.4	4.7	4.3
137	Barrera	4.5	4.8	4.0	4.6	4.4
138	Grande II	4.5	4.7	3.8	4.6	4.7
139	ATF-1037	4.4	4.1	4.2	4.7	4.7
140	ATF-1069	4.4	4.7	4.1	4.4	4.4

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
141	ATF-1082	4.4	4.9	4.2	4.6	4.0
142	GreyStone	4.4	4.4	4.5	4.5	4.2
143	SRX CACC2	4.4	4.8	4.0	4.3	4.5
144	ATF-1033	4.4	4.6	4.3	4.3	4.3
145	ATF-1076	4.4	4.6	4.4	4.3	4.0
146	SR 8600	4.4	4.9	3.8	4.4	4.3
147	PSW# 210	4.4	4.8	3.8	4.2	4.6
148	Rebel Exeda	4.3	4.9	3.7	4.3	4.4
149	Tracer	4.3	4.8	4.0	4.2	4.3
150	PSW# 209	4.3	4.9	3.7	4.2	4.4
151	Coronado	4.3	4.8	4.3	4.1	4.1
152	Shenandoah II	4.3	4.8	3.9	4.3	4.3
153	ATF-1045	4.3	4.6	4.0	4.3	4.4
154	ATF-1086	4.3	4.6	3.8	4.3	4.4
155	ATF-1044	4.3	5.1	3.9	4.2	3.9
156	ATF-1084	4.3	4.7	4.0	4.3	4.2
157	SR 8250	4.3	4.9	3.8	4.1	4.3
158	ATF-1062	4.3	4.8	4.0	4.3	3.9
159	ATF-1081	4.3	4.7	3.7	4.4	4.2
160	Tulsa II	4.3	4.5	3.8	4.3	4.4
161	Focus	4.2	4.8	3.7	4.0	4.3
162	BarLexas II	4.2	4.9	3.8	4.1	4.1
163	SRX OHTF	4.2	4.3	4.1	4.3	4.1
164	ATF-1077	4.2	4.5	3.8	4.3	4.1
165	ATF-1168	4.2	4.9	3.5	4.2	4.0
166	SRX CAFT1	4.2	4.6	3.6	3.9	4.4
167	ATF-1071	4.1	4.4	3.9	4.2	4.0
168	ATF-1103	4.1	4.4	4.1	4.2	3.9
169	ATF-1087	4.1	4.7	3.5	4.1	4.1
170	SRX RH2	4.1	4.6	3.5	4.1	4.3
171	Crossfire II	4.1	4.3	3.7	4.1	4.2
172	ATF-1094	4.1	4.8	3.8	4.0	3.7
173	Crewcut II	4.1	4.1	3.8	4.2	4.2
174	Five Point	4.1	4.7	3.4	3.9	4.3
175	Pick BWI-02	4.1	3.3	3.8	4.4	4.8

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				
		2004-2007 Avg.	2004 Avg.	2005 Avg.	2006 Avg.	2007 Avg.
176	Rembrandt	4.1	4.7	3.6	4.1	3.9
177	Dynasty	4.1	4.4	3.4	4.2	4.3
178	Watchdog	4.0	4.3	3.5	4.0	4.2
179	DTF	4.0	4.4	3.3	4.1	4.2
180	SRX RHI	4.0	4.1	4.0	3.7	4.1
181	Gazelle	4.0	4.4	3.4	3.9	4.1
182	BAR Fa 1020	3.9	3.7	3.5	4.3	4.3
183	Arizona	3.9	4.2	3.4	4.0	3.9
184	Renegade II	3.9	4.5	3.3	3.9	3.8
185	ATF-1099	3.8	4.5	3.5	3.7	3.7
186	BAR Fa 1003	3.8	4.2	3.7	3.8	3.6
187	SRX CABE1	3.8	4.1	3.8	3.5	3.7
188	Tulsa	3.6	3.7	3.3	3.6	3.9
189	Titan Ltd	3.5	3.4	3.1	3.3	4.2
190	Jaguar 3	3.4	3.6	3.2	3.5	3.4
191	Falcon III	3.4	3.8	3.2	3.5	3.1
192	BAR Fa 1002	3.4	3.5	3.5	3.3	3.1
193	Regiment	3.2	2.8	2.9	3.4	3.7
194	Grande	3.1	3.3	2.9	3.1	3.1
195	Bonanza II	3.1	3.5	3.0	3.1	2.7
196	Ky-31	1.4	1.1	1.3	1.2	1.9
197	South East	1.1	1.1	1.1	1.1	1.1
	LSD at 5% =	0.5	0.6	0.7	0.7	0.8

<sup>1</sup>9 = best turf quality

Table 2. Performance of tall fescue cultivars and selections in a turf trial established in September 2004 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
1	WT Comp	6.4	6.6	6.2	6.4	5.6	6.7	5.7
2	Firenza	6.0	6.0	6.2	5.8	4.9	5.7	4.7
3	RP3 Comp	5.9	5.8	6.1	5.9	5.4	6.0	6.0
4	CR3 Comp	5.8	5.8	5.9	5.8	5.9	5.7	6.0
5	BT1 Comp	5.8	5.7	5.9	5.7	4.8	6.3	4.7
6	Finelawn Xpress	5.7	5.5	6.1	5.7	4.4	5.3	4.7
7	IS-TF 118	5.7	5.5	5.6	5.9	4.9	5.3	5.3
8	Inferno	5.7	5.4	5.8	5.9	5.8	5.7	4.7
9	IS-TF 80	5.6	5.8	5.7	5.4	4.9	5.3	5.3
10	Six Point	5.6	5.5	5.6	5.7	5.6	6.7	5.3
11	CR2 Comp	5.6	5.5	5.8	5.4	5.2	6.0	5.0
12	CR1 Comp	5.5	5.4	5.6	5.5	5.8	6.0	5.7
13	ATF-1233	5.5	5.7	5.6	5.3	4.6	6.0	5.7
14	Escalade	5.5	5.4	5.7	5.4	5.2	6.0	4.7
15	RAD-TF8	5.5	5.6	5.8	5.1	4.3	4.7	4.3
16	BT2 Comp	5.5	5.2	5.6	5.6	4.4	5.3	6.0
17	ATF-1235	5.4	5.6	5.4	5.3	5.6	5.7	5.3
18	ATF-1223	5.4	5.6	5.7	5.0	5.1	5.3	5.3
19	ATF-1224	5.4	5.4	5.5	5.4	4.7	5.0	4.7
20	ATF-1203	5.4	5.5	5.6	5.2	5.6	6.0	6.0
21	PST-SYN-5L13-04	5.4	5.5	5.6	5.2	4.7	5.3	5.0
22	PT1 Comp	5.4	5.3	5.7	5.2	4.4	5.0	5.3
23	IS-TF 114	5.4	5.3	5.7	5.2	5.4	5.3	5.0
24	Falcon IV	5.4	5.4	5.5	5.2	5.2	6.0	5.0
25	ATF-1232	5.3	5.6	5.3	5.1	5.2	5.3	5.0

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(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
26	IS-TF 94	5.3	5.2	5.5	5.3	4.3	4.7	5.7
27	04-4 FA	5.3	5.1	5.5	5.3	4.3	5.3	4.0
28	03-12 TF#6	5.3	5.4	5.5	4.9	4.3	4.7	5.3
29	ATF-1234	5.3	5.0	5.8	5.2	4.6	5.3	4.7
30	03-12 TF#8	5.3	5.9	5.4	4.6	4.6	4.7	4.0
31	PST-SYN-5M25	5.3	5.2	5.7	4.9	4.6	5.0	5.7
32	ATF-1231	5.2	5.3	5.6	4.8	5.1	5.3	5.0
33	Gremlin	5.2	5.3	5.3	5.0	5.3	6.0	5.3
34	RAD-TF22	5.2	4.8	5.4	5.3	5.0	5.7	5.0
35	03-2 TF#6	5.2	4.6	5.5	5.4	4.8	5.0	5.7
36	03-12 TF Bulk	5.2	5.3	5.1	5.2	4.9	5.0	4.0
37	03-2 TF Bulk	5.2	4.8	5.4	5.2	5.2	5.3	6.0
38	ATF-1226	5.2	5.4	5.3	4.8	5.9	6.0	4.7
39	04-2 FA	5.1	5.3	5.2	5.0	4.2	4.7	5.3
40	Padre	5.1	5.2	5.1	5.1	5.0	5.0	5.3
41	ATF-1201	5.1	5.6	5.2	4.6	5.2	5.3	4.0
42	RAD-TF16	5.1	4.9	5.4	5.1	4.2	4.7	5.0
43	Finelawn Elite	5.1	5.0	5.1	5.3	5.1	5.3	5.0
44	ATF-1236	5.1	5.0	5.2	5.1	4.7	5.3	5.0
45	Titanium	5.1	4.8	5.2	5.2	5.4	6.3	5.3
46	04-6 FA	5.1	4.9	5.4	4.9	4.3	4.7	4.3
47	RAD-TF9	5.1	4.7	5.3	5.2	5.0	5.0	5.0
48	IS-TF 93	5.1	4.6	5.2	5.4	5.0	5.7	5.0
49	03-12 TF#1	5.1	5.2	5.3	4.7	4.6	5.3	3.3
50	Justice	5.0	4.6	5.6	5.0	5.1	5.7	5.7

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
51	ATF-1227	5.0	5.1	5.0	5.0	4.6	5.0	5.7
52	Cortez II	5.0	5.0	5.2	5.0	5.0	5.0	5.0
53	RAD-TF21	5.0	4.6	5.4	5.1	4.6	5.0	3.3
54	Avenger	5.0	4.6	5.3	5.2	5.1	5.7	6.0
55	PST-SYN	5.0	5.1	5.0	5.0	5.1	5.7	5.7
56	03-2 TF#5	5.0	5.1	5.1	4.9	5.3	5.7	5.0
57	03-5 TF#6	5.0	4.7	5.5	4.8	4.6	4.7	3.7
58	PST-SYN-5SIS	5.0	4.7	5.3	5.1	5.2	6.3	5.0
59	Constitution	5.0	5.5	5.2	4.4	5.0	5.0	4.0
60	Matador GT	5.0	5.1	5.1	4.7	3.8	4.7	5.7
61	RAD-TF6	5.0	4.9	5.2	4.7	4.6	5.0	5.0
62	Silverado II	4.9	4.9	5.2	4.7	5.3	5.7	5.0
63	Raptor	4.9	5.3	5.1	4.5	4.9	5.3	5.0
64	NAT-04M	4.9	4.6	5.2	5.0	5.0	5.3	4.3
65	03-6 TF Bulk	4.9	4.8	5.4	4.6	4.8	5.3	4.3
66	03-12 TF#2	4.9	5.0	5.2	4.5	4.7	4.7	5.0
67	03-2 TF#1	4.9	4.5	5.2	5.0	5.0	5.3	5.3
68	PST-SYN-5D25	4.9	4.8	5.2	4.7	4.6	5.7	5.0
69	Coronado TDH	4.9	5.3	5.1	4.3	4.3	5.0	5.0
70	2nd Millenium	4.9	4.4	5.1	5.2	4.8	5.0	4.7
71	Riverside	4.8	4.9	5.1	4.6	4.9	5.7	5.3
72	PST-SYN-5DVD	4.8	4.8	5.0	4.7	4.8	5.7	5.3
73	PST-5BAB	4.8	5.2	4.8	4.5	4.9	5.7	4.3
74	Cochise III	4.8	4.8	5.0	4.7	5.1	5.3	4.3
75	03-4 TF Bulk	4.8	4.5	5.2	4.7	4.8	5.3	6.0

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(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
76	PST-5V4 BS	4.8	4.7	4.9	4.8	5.0	6.0	5.0
77	RAD-TF10	4.8	4.7	5.2	4.5	4.7	5.3	4.3
78	03-5 TF Bulk	4.8	5.1	4.6	4.7	4.7	5.3	4.0
79	Scorpion	4.8	4.6	5.1	4.7	4.6	5.0	4.7
80	RAD-TF23	4.8	4.7	4.9	4.7	5.6	5.7	4.3
81	PST-5BRO	4.8	4.7	4.8	4.7	5.2	6.0	4.3
82	04-7 FA	4.7	4.6	5.1	4.6	4.2	4.7	4.7
83	04-1 FA	4.7	4.6	5.1	4.6	4.6	5.0	4.3
84	RAD-TF17	4.7	4.7	4.9	4.6	5.1	5.7	5.0
85	03-9 TF#4	4.7	4.8	4.7	4.7	4.7	5.3	4.7
86	03-12 TF#9	4.7	4.7	5.2	4.3	3.4	4.0	3.7
87	Grande II	4.7	4.9	4.8	4.3	4.7	5.0	6.0
88	Bingo	4.7	4.6	5.1	4.4	4.9	5.3	5.0
89	03-12 TF#5	4.7	4.7	4.8	4.6	5.6	6.3	5.3
90	SR 8550	4.7	5.0	4.8	4.2	4.3	5.0	4.0
91	DaVinci	4.7	4.4	4.9	4.7	4.8	5.3	4.3
92	04-5 FA	4.7	4.9	4.6	4.5	4.0	4.7	5.3
93	03-5 TF#5	4.7	4.6	4.8	4.6	5.1	5.7	5.0
94	04-Walk	4.6	4.6	4.6	4.8	4.9	5.7	5.7
95	Rembrandt	4.6	4.5	4.7	4.7	4.3	5.3	5.3
96	PST-SYN-5SLT-04	4.6	4.5	4.9	4.5	4.6	5.0	5.0
97	Cayenne	4.6	4.7	4.7	4.5	4.7	5.0	5.0
98	PST-SYN-5BIL	4.6	4.7	4.8	4.3	4.6	5.0	5.7
99	Blade Runner	4.6	5.1	4.4	4.3	4.3	4.7	5.0
100	03-9 TF Bulk	4.6	4.7	4.7	4.4	5.0	5.3	4.7

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
101	03-7 TF Bulk	4.6	4.5	5.0	4.3	5.0	5.0	4.3
102	Magellan	4.6	4.8	4.7	4.3	4.6	4.7	5.3
103	03-11 TF Bulk	4.6	4.7	4.6	4.5	4.8	5.3	5.0
104	Silverstar	4.6	4.7	4.6	4.5	5.3	5.7	6.0
105	Guardian 21	4.6	4.4	4.8	4.4	4.0	4.7	5.0
106	03-12 TF#4	4.5	4.8	5.0	3.9	4.7	4.7	4.0
107	03-9 TF#3	4.5	4.5	4.8	4.3	4.2	4.3	5.3
108	Shenandoah II	4.5	4.8	4.6	4.2	4.7	5.3	5.0
109	Picasso	4.5	4.8	4.6	4.2	5.2	5.0	4.7
110	Rendition	4.5	4.7	4.7	4.2	4.7	5.0	4.7
111	Regiment II	4.5	4.5	4.8	4.2	4.1	4.3	5.0
112	03-1 TF Bulk	4.5	4.5	4.7	4.2	5.1	5.3	6.0
113	Stonewall	4.5	4.3	4.7	4.5	5.3	5.0	5.0
114	PST-5S12-BS	4.5	4.5	4.6	4.3	4.9	5.3	5.0
115	Tarheel	4.4	4.5	4.4	4.4	5.1	5.3	6.0
116	03-7 TF#1	4.4	4.2	4.7	4.3	4.0	4.0	3.7
117	PST-55 HZ	4.4	4.4	4.5	4.4	5.1	5.7	5.3
118	Blackwatch	4.4	4.7	4.5	3.9	4.6	5.3	5.3
119	PST-SYN-5T25	4.4	4.7	4.4	3.9	4.7	5.3	5.3
120	SR 8600	4.4	4.5	4.5	4.1	4.9	5.3	6.0
121	04-Dust	4.3	4.3	4.6	4.2	4.9	5.0	5.3
122	Five Point	4.3	4.7	4.5	3.8	4.8	5.0	4.3
123	PST-SYN-5TK04	4.3	4.4	4.5	4.0	4.9	5.3	5.7
124	03-7 TF#4	4.3	4.2	4.6	4.1	4.3	4.3	5.0
125	03-9 TF#2	4.3	4.4	4.6	3.9	4.2	4.7	4.3

(Continued)



Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
126	PST-SYN-5RIL	4.3	3.9	4.4	4.5	4.4	5.0	6.0
127	03-9 TF#6	4.3	4.2	4.6	4.0	5.0	5.0	4.7
128	Arid 3	4.3	4.4	4.2	4.1	5.4	5.7	5.3
129	03-9 TF#1	4.2	4.3	4.5	3.8	4.4	4.7	4.7
130	FE-JD 34103	4.2	4.0	4.5	4.1	4.9	4.7	4.3
131	Mustang 3	4.2	4.2	4.3	4.0	4.0	4.3	4.3
132	Masterpiece	4.2	4.0	4.5	4.0	5.2	5.3	5.0
133	03-9 TF#5	4.2	4.3	4.3	3.9	3.9	4.3	5.0
134	03-7 TF#2	4.2	4.0	4.6	3.9	3.8	4.0	4.7
135	Trooper	4.1	4.0	4.4	4.0	4.8	5.3	5.0
136	Ninja II	4.1	4.0	4.6	3.8	3.9	4.3	4.3
137	Crewcut II	4.1	4.2	4.5	3.6	4.9	5.0	4.7
138	Dynasty	4.1	4.0	4.3	3.9	5.2	5.7	5.0
139	PST-SYN-5 TK3	4.1	3.8	4.1	4.3	5.6	5.7	4.3
140	Quest	4.1	4.4	4.2	3.6	4.6	5.7	5.3
141	Gazelle	4.1	4.7	4.0	3.5	4.6	4.7	4.7
142	PST-SYN-5JR4	4.0	4.1	4.3	3.7	4.6	5.3	5.7
143	03-7 TF#3	4.0	3.5	4.6	4.0	3.9	4.0	5.3
144	Biltmore	4.0	4.0	4.3	3.8	4.7	5.0	6.0
145	Arid II	4.0	4.3	3.9	3.8	4.9	5.0	5.7
146	Wolfpack	4.0	4.1	4.4	3.3	4.6	4.7	5.0
147	Sunpro	3.9	4.0	4.3	3.6	4.1	4.7	4.3
148	Tulsa III	3.9	3.8	4.1	3.7	4.9	5.0	4.7
149	Renegade II	3.8	4.2	4.0	3.3	5.0	4.7	5.3
150	Expedition	3.8	3.7	4.0	3.6	4.8	5.3	4.3

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> Nov. 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2005- 2007 Avg.	2005 Avg.	2006 Avg.	2007 Avg.			
151	03-7 TF#5	3.7	3.6	4.1	3.5	3.7	4.3	3.7
152	FE-JD 41103	3.7	4.0	4.0	3.1	5.1	4.7	4.3
153	SR 8500	3.6	3.6	3.9	3.3	4.8	4.7	4.0
154	Alamo	3.6	3.7	3.8	3.2	4.0	4.3	4.7
155	Mini-Mustang	3.5	3.6	3.8	3.0	4.4	4.7	5.0
156	Jaguar 3	3.4	3.5	3.5	3.2	5.3	4.7	4.7
157	Falcon III	3.4	3.7	3.7	2.7	4.3	5.0	4.7
158	Pixie	3.3	3.5	3.6	2.8	4.6	4.7	4.7
159	Titan LTD	3.3	3.3	3.6	3.0	4.9	5.0	4.3
160	Tulsa	3.2	2.8	3.7	3.3	4.2	5.0	5.3
161	FE-JD 3104	3.2	3.4	3.4	2.7	4.2	4.7	4.3
162	Grande	3.0	3.1	3.3	2.5	5.0	4.7	4.0
163	Mustang II	2.8	2.9	3.1	2.5	4.2	4.7	4.3
164	Southeast	1.4	1.4	1.6	1.3	3.0	3.7	4.7
165	Ky-31	1.2	1.3	1.2	1.0	2.7	3.3	5.3
LSD at 5% =		0.6	0.8	0.7	0.7	1.2	1.3	1.4

<sup>1</sup>9 = best turf quality

<sup>2</sup>9 = best turf quality with wear

<sup>3</sup>9 = least disease

Table 3. Performance of tall fescue cultivars and selections in a turf trial established in September 2005 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2006-2007 Avg.	2006 Avg.	2007 Avg.		
1	BB-5Comp	6.9	6.8	7.0	5.3	7.3
2	RK-5Comp	6.9	6.9	6.9	7.3	7.0
3	BB-2Comp	6.8	6.8	6.8	6.7	6.0
4	RK-6Comp	6.8	6.9	6.7	6.7	7.0
5	2005-50/9407	6.6	6.7	6.5	7.3	7.3
6	RK-2Comp	6.6	6.6	6.5	7.0	5.3
7	RK-1Comp	6.6	6.3	6.8	8.3	5.0
8	MillenniumSRP	6.5	6.4	6.6	6.3	5.7
9	RK-4Comp	6.5	6.3	6.6	7.3	5.7
10	RK-3Comp	6.4	6.5	6.2	7.7	6.0
11	ShenandoahIII	6.3	6.4	6.2	8.0	5.0
12	Jamboree	6.3	5.7	6.8	6.3	5.3
13	PST-Syn5POL	6.2	6.3	6.2	6.7	6.0
14	BBM	6.2	6.7	5.8	7.0	6.3
15	2005-50/9440	6.2	6.1	6.3	4.7	6.7
16	2005-50/9460	6.2	6.0	6.4	7.0	6.3
17	IS-TF152	6.2	6.0	6.3	2.3	6.3
18	TF28	6.1	5.8	6.5	4.0	7.0
19	TF8	6.1	5.5	6.7	5.7	8.0
20	BB-1Comp	6.1	6.0	6.2	7.3	6.0
21	Terrier	6.1	6.0	6.1	3.0	6.3
22	CE-3	6.1	6.4	5.7	6.7	6.3
23	FalconIV	6.1	6.1	6.0	6.3	5.3
24	STR8LMM	6.0	6.3	5.8	4.7	5.7
25	2005-50/9411	6.0	5.8	6.2	5.0	5.7
26	IS-TF118	6.0	6.0	6.0	3.0	5.7
27	CRLComp	6.0	6.3	5.6	5.7	5.0
28	PSG39-Bulk-05	6.0	6.0	6.0	5.0	5.7
29	IS-TF131	6.0	5.8	6.1	3.0	5.7
30	IS-TF139	6.0	5.9	6.0	3.3	7.0
31	ATF1247	5.9	6.1	5.7	4.7	4.7
32	TF36	5.9	5.9	5.9	3.3	6.3
33	IS-TF137	5.9	5.7	6.1	3.0	6.0
34	FalconNG	5.9	5.9	5.9	7.3	5.3
35	PST-Syn5MAC	5.9	5.8	6.0	5.3	5.3

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2006-2007 Avg.	2006 Avg.	2007 Avg.		
36	IS-TF94	5.9	6.3	5.4	4.0	5.7
37	PSG43-Bulk-05	5.9	6.1	5.6	5.0	6.0
38	TF2	5.9	5.6	6.1	4.3	6.3
39	PSG44Bulk-05	5.8	6.1	5.5	5.0	6.3
40	TF32	5.8	5.8	5.7	4.3	5.0
41	TF34	5.8	5.6	5.9	4.7	5.0
42	IS-TF130	5.8	5.6	5.9	5.0	5.7
43	IS-TF138	5.8	5.7	5.8	4.3	7.3
44	TF29	5.8	5.6	5.9	5.3	7.3
45	SR8550	5.8	6.0	5.5	2.7	6.0
46	PST-Syn5DSL	5.7	5.7	5.7	4.3	5.7
47	Guardian21	5.7	6.0	5.4	3.3	5.0
48	CE-4Comp	5.7	6.1	5.3	5.7	5.3
49	PSG33-Bulk-05	5.7	5.9	5.5	4.0	6.0
50	PST-Syn5BGR	5.7	5.6	5.7	4.7	6.0
51	TF17	5.7	5.7	5.7	4.7	6.0
52	TF31	5.7	5.6	5.7	3.3	6.7
53	Inferno	5.7	5.8	5.6	3.3	5.7
54	ATF1234	5.7	5.5	5.8	4.3	5.7
55	ATF1245	5.7	5.7	5.6	4.7	4.3
56	Bingo	5.6	6.0	5.2	6.0	6.7
57	DaVinci	5.6	6.1	5.2	3.0	5.3
58	PST-Syn5COR	5.6	6.0	5.3	4.3	6.0
59	TF9	5.6	5.8	5.4	3.0	7.0
60	TF22	5.6	5.4	5.8	5.0	6.3
61	ATF1223	5.6	6.0	5.2	4.3	5.0
62	TF19	5.6	5.5	5.7	2.0	5.3
63	STRGrandellRh	5.6	6.0	5.2	3.3	4.7
64	CE-2Comp	5.6	6.0	5.1	7.0	6.0
65	Rocket	5.6	5.6	5.5	3.7	5.3
66	Pedigree	5.5	5.9	5.1	4.0	6.0
67	ATF1236	5.5	5.7	5.3	4.0	6.0
68	Banshee	5.5	5.5	5.5	3.7	6.0
69	PST-Syn5DR5	5.5	5.6	5.4	3.0	5.7
70	ATF1213	5.5	5.7	5.2	3.3	5.0

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2006-2007 Avg.	2006 Avg.	2007 Avg.		
71	IS-TF132	5.5	5.5	5.4	3.3	6.3
72	Avenger	5.5	5.8	5.2	5.0	6.0
73	Apachelll	5.5	6.0	4.9	5.0	6.7
74	ATF1203	5.4	5.8	5.1	4.0	5.7
75	TF21	5.4	5.3	5.6	4.0	6.7
76	ATF1235	5.4	5.7	5.1	3.7	5.7
77	MatadorGT	5.4	6.0	4.8	3.0	6.0
78	Innovator	5.4	5.7	5.1	4.7	6.3
79	PSG32-Bulk-05	5.4	5.6	5.2	4.7	4.7
80	STR8RhZ9K	5.4	5.8	5.0	2.3	6.3
81	PST-Syn5JAG	5.4	5.6	5.2	5.7	6.3
82	Titanium	5.4	5.8	5.0	4.7	5.0
83	PSG36-Bulk-05	5.4	5.8	5.0	4.0	5.0
84	PST-Syn5MED	5.4	5.6	5.1	5.0	5.0
85	PST-5BAB	5.4	5.6	5.1	3.7	6.0
86	TF16	5.4	5.5	5.2	2.0	7.0
87	STR8RhZ8K	5.3	5.4	5.3	2.7	6.3
88	Houndog6	5.3	5.7	4.9	4.0	5.7
89	PSG41-Bulk-05	5.3	5.5	5.1	4.7	4.3
90	ATF1226	5.3	5.7	4.8	4.0	4.3
91	Raptor	5.3	5.7	4.8	2.7	5.3
92	STR8RhZ1K	5.3	5.5	5.0	3.7	6.7
93	Cochiselll	5.2	5.5	5.0	4.3	6.3
94	Cortezll	5.2	5.6	4.9	3.7	5.3
95	ATF1200	5.2	5.3	5.1	5.0	5.0
96	Blackwatch	5.2	5.8	4.6	5.3	5.0
97	Solara	5.2	5.4	5.0	5.3	5.0
98	PSG42-Bulk-05	5.2	5.9	4.5	4.0	4.7
99	TF10	5.2	5.3	5.1	2.7	6.7
100	TF33	5.2	5.2	5.2	5.0	6.0
101	STRTitLtdRh	5.2	5.2	5.1	2.7	4.7
102	PSG21-Bulk-05	5.2	5.7	4.7	5.3	4.7
103	Silveradoll	5.2	5.8	4.5	5.3	5.3
104	Corgi	5.1	5.7	4.6	2.7	5.0
105	STR8600Rh	5.1	5.5	4.7	3.7	4.7

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2006-2007 Avg.	2006 Avg.	2007 Avg.		
106	STRRenRh	5.1	5.8	4.3	3.0	5.0
107	ATF1224	5.0	5.2	4.8	1.7	5.7
108	03-5TF#3-04	5.0	5.3	4.7	3.0	4.7
109	PST-5V1	5.0	5.4	4.7	5.7	6.3
110	PSG20-Bulk-05	5.0	5.0	5.0	2.7	5.3
111	STR8RhZ18K	5.0	5.1	4.9	3.7	7.0
112	TF35	5.0	5.4	4.5	2.3	5.3
113	SR8600	5.0	5.5	4.5	5.0	5.7
114	RegimentII	4.9	5.3	4.5	2.3	4.7
115	Rembrandt	4.9	5.7	4.1	5.0	5.0
116	PST-Syn5MSD	4.9	5.0	4.8	2.7	5.7
117	Silverstar	4.9	5.6	4.1	4.0	5.0
118	TF30	4.9	5.0	4.7	3.0	7.0
119	Grandell	4.9	5.5	4.2	3.3	5.7
120	SRTDDMRh	4.9	5.2	4.6	3.3	5.0
121	ATF1246	4.9	5.2	4.5	4.0	5.3
122	STR8RhZ13K	4.9	5.5	4.2	2.0	6.0
123	Cayenne	4.8	5.3	4.3	3.7	5.3
124	BladeRunner	4.8	5.4	4.3	4.0	6.3
125	Ninjall	4.8	5.1	4.5	3.0	5.3
126	STR8RhZ14K	4.8	5.4	4.2	3.7	5.3
127	Picasso	4.7	5.3	4.2	4.7	4.7
128	Arid3	4.7	5.2	4.2	3.7	5.0
129	STRRegSRh	4.7	5.1	4.4	3.7	4.3
130	PSG31-Bulk-05	4.7	4.8	4.6	4.0	4.5
131	STR8RhZ19K	4.7	5.4	3.9	2.3	5.0
132	Prestige	4.6	4.7	4.5	3.3	5.7
133	Constitution	4.6	5.3	3.9	3.0	5.7
134	PST-Syn5SL5	4.6	5.1	4.1	4.0	5.3
135	Masterpiece	4.6	5.2	4.0	5.3	5.7
136	Jaguar4	4.6	5.1	4.1	1.7	4.7
137	Quest	4.6	5.1	4.1	3.0	5.7
138	PST-Syn5WP	4.5	4.7	4.3	4.3	5.0
139	Watchdog	4.5	5.1	3.9	4.0	4.3
140	STR8RhZ10K	4.4	4.7	4.2	3.0	3.7

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 2007	Brown Patch <sup>3</sup> 2007 Avg.
		2006-2007 Avg.	2006 Avg.	2007 Avg.		
141	PST-Syn5DZ5	4.4	4.7	4.1	2.0	3.7
142	PST-Syn5SMG	4.4	4.8	3.9	4.0	4.0
143	Endeavor	4.3	4.7	4.0	4.0	6.3
144	IS-TF134	4.3	4.5	4.0	1.7	5.7
145	IS-TF112	4.2	4.5	3.9	1.7	5.0
146	Expedition	4.2	4.8	3.5	3.7	4.7
147	PST-5Z5Bulk	4.1	4.3	3.9	2.7	5.3
148	PST-Syn5SEG	4.1	4.5	3.8	4.0	5.7
149	PST-Syn580Z	4.1	4.7	3.5	2.3	4.7
150	TomCat	4.1	4.6	3.5	5.0	4.0
151	STR8MO1	4.1	4.6	3.6	2.7	5.7
152	PST-Syn5ZR	4.0	4.3	3.7	2.7	5.3
153	PST-Syn525G	4.0	4.4	3.7	4.7	6.7
154	ATF1166	4.0	4.5	3.6	2.7	6.0
155	TitanLtd.	4.0	4.7	3.2	2.7	4.0
156	Pixie	3.9	4.6	3.2	4.3	5.3
157	Tulsall	3.9	4.4	3.4	2.3	4.7
158	PST-53XBulk	3.7	4.0	3.3	3.0	5.0
159	Jaguar3	3.6	4.1	3.2	4.7	4.7
160	FalconIII	3.4	4.1	2.7	4.0	5.3
161	KY-31	1.0	1.0	1.0	6.7	4.7
	LSD at 5% =	0.7	0.7	0.9	1.5	1.8

<sup>1</sup>9 = best turf quality<sup>2</sup>9 = earliest spring green-up<sup>3</sup>9 = least disease

Table 4. Performance of tall fescue cultivars and selections in a turf trial established in September 2005 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> 2007 Avg.	Brown Patch <sup>3</sup> Aug. 2007
		2006- 2007 Avg.	2006 Avg.	2007 Avg.			
1	Millennium SRP	6.4	6.5	6.2	6.0	6.2	5.3
2	RK6	5.9	5.9	5.9	6.0	5.8	5.0
3	Shenandoah III	5.8	5.6	6.0	6.3	5.8	5.7
4	IS-TF-152	5.8	5.9	5.8	5.0	5.2	4.7
5	IS-TF-138	5.7	5.5	5.8	5.7	5.8	6.3
6	IS-TF-151	5.6	5.7	5.6	4.3	4.2	5.3
7	SR 8650	5.6	5.5	5.7	5.7	5.8	6.3
8	Terrier	5.5	5.6	5.4	4.7	4.7	5.7
9	Falcon IV	5.5	5.7	5.2	4.3	5.5	5.3
10	IS-TF-94	5.4	5.9	4.9	3.7	4.2	4.3
11	ATF1224	5.2	5.4	5.1	4.0	4.2	6.3
12	Jamboree	5.2	5.1	5.3	5.0	5.5	5.3
13	PSG 43-05	5.2	5.4	5.0	5.0	5.3	5.3
14	IS-TF-139	5.1	5.4	4.9	5.0	5.3	5.3
15	IS-TF-118	5.1	5.3	4.9	5.0	5.0	5.0
16	ATF1040	5.1	5.4	4.8	4.0	4.0	5.3
17	ATF1226	5.1	5.2	4.9	4.3	5.7	4.7
18	ATF1213	5.0	5.2	4.8	3.7	4.0	4.7
19	IS-TF-130	5.0	4.9	5.1	5.0	5.2	5.3
20	ATF1234	5.0	5.1	4.9	5.0	5.3	4.3
21	IS-TF-137	5.0	5.1	4.9	5.3	5.7	5.3
22	ATF1235	5.0	5.0	4.9	4.3	5.2	4.3
23	Rocket	5.0	5.1	4.8	6.0	6.2	5.0
24	IS-TF-80	4.9	5.4	4.4	3.7	4.0	4.7
25	IS-TF-131	4.9	5.2	4.6	4.0	3.8	5.0
26	PSG 41-05	4.9	5.0	4.8	5.0	5.0	5.3
27	ATF1223	4.9	5.2	4.5	4.7	5.0	5.0
28	PST-5KB	4.8	4.9	4.8	3.0	4.2	4.0
29	Hounddog VI	4.8	5.0	4.7	3.7	4.0	5.0
30	ATF1236	4.8	5.0	4.7	4.3	4.5	5.0
31	ATF1220	4.8	4.9	4.8	4.7	5.3	5.0
32	ATF1245	4.8	4.8	4.7	4.0	4.8	5.3
33	Banshee	4.7	4.9	4.5	4.0	3.8	5.0
34	PST-SYN-5L13-05	4.6	5.0	4.3	4.3	4.2	5.3
35	PST-5TDH	4.6	4.8	4.4	6.0	6.3	5.3

(Continued)



Table 4 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Wear <sup>2</sup> 2007 Avg.	Wear Recovery <sup>2</sup> 2007 Avg.	Brown Patch <sup>3</sup> Aug. 2007
		2006- 2007 Avg.	2006 Avg.	2007 Avg.			
36	PST-5LIV	4.6	4.7	4.4	4.7	5.2	5.7
37	ATF1247	4.5	4.6	4.5	4.7	5.3	5.0
38	PST-R5EP	4.5	4.6	4.5	6.0	6.3	5.7
39	PST-SYN-R5B4	4.4	4.6	4.2	5.0	5.8	4.7
40	Pedigree	4.4	4.6	4.2	4.7	5.2	5.0
41	IS-TF-133	4.4	4.5	4.3	3.7	4.2	5.0
42	ATF1200	4.4	4.6	4.2	4.7	5.7	5.0
43	PST-SYN-5DVD	4.3	4.2	4.3	4.7	5.3	5.3
44	Grande II	4.3	4.9	3.6	3.7	4.2	4.3
45	ATF1203	4.2	4.4	4.1	4.7	5.0	5.0
46	Tar Heel II	4.1	4.4	3.9	4.0	4.7	4.3
47	ATF1218	4.1	4.2	3.9	3.0	3.7	3.0
48	ATF1214	4.0	4.4	3.7	2.7	3.2	3.3
49	PST-SYN-5IL5	3.9	4.0	3.8	5.3	5.2	6.0
50	IS-TF-134	3.8	3.7	3.8	4.0	4.2	4.3
51	ATF1246	3.6	3.8	3.4	3.0	3.8	4.3
52	Rhizing Star	3.3	3.4	3.2	3.7	4.3	4.3
53	Water Saver	3.2	3.2	3.2	3.3	3.7	3.7
54	KY-31	1.1	1.1	1.0	1.7	3.0	3.7
	LSD at 5% =	0.5	0.8	0.6	0.6	0.6	1.3

<sup>1</sup>9 = best turf quality<sup>2</sup>9 = best turf quality with wear<sup>3</sup>9 = least disease

Table 5. Performance of tall fescue cultivars and selections in a turf trial established in September 2006 at Adelphia, NJ. (Includes all entries in the 2006 National Tall Fescue Test sponsored by NTEP.)

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
1	K06-WA	6.7	6.3	58.3	7.0
2	SP2comp	6.6	6.3	53.3	7.3
3	RKCL	6.5	6.2	58.3	6.3
4	SP1comp	6.5	5.5	50.0	7.3
5	RNP	6.2	5.8	48.3	8.3
6	DP50-9440	6.2	5.3	48.3	7.0
7	AR4comp	6.1	6.0	50.0	6.0
8	IS-TF-159	6.0	5.7	43.3	6.3
9	AST-1	6.0	4.7	53.3	8.3
10	IS-TF137	5.9	6.0	46.7	7.3
11	Jamboree	5.9	5.2	51.7	6.0
12	PSG75-A-06	5.9	5.7	55.0	7.0
13	AST-3	5.9	5.7	43.3	7.7
14	IS-TF-152	5.9	5.3	51.7	6.7
15	FatCat	5.9	5.2	55.0	7.0
16	PST-Syn-5DZP	5.9	5.2	51.7	6.0
17	PSG55-B-06	5.9	4.7	58.3	6.3
18	MillenniumSRP	5.8	6.8	60.0	6.7
19	SixPoint	5.8	5.7	55.0	5.3
20	LS-11	5.8	4.8	45.0	8.0
21	BGR-TF2	5.8	4.5	50.0	8.3
22	VanGogh	5.8	6.7	55.0	6.0
23	FinelawnXpress	5.8	6.5	58.3	6.0
24	BGR-TF1	5.8	6.0	43.3	7.7
25	Inferno	5.8	5.8	58.3	6.0
26	Pedigree	5.8	5.5	56.7	5.3
27	JT-45	5.8	5.8	58.3	7.0
28	KZ-1	5.8	5.7	48.3	7.0
29	RK4	5.8	5.2	55.0	5.7
30	ATF1354	5.7	6.0	58.3	6.7
31	RK6	5.7	5.8	60.0	6.7
32	ATF1328	5.7	5.7	48.3	7.3
33	ATF1284	5.7	5.7	46.7	5.7
34	FalconV	5.7	6.2	61.7	7.3
35	ATF1352	5.7	5.2	56.7	7.0

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
36	MVS-MST	5.7	4.8	48.3	5.7
37	Firenza	5.7	6.7	56.7	5.7
38	M4	5.7	6.5	50.0	6.3
39	SC-1	5.7	6.2	61.7	5.7
40	Hunter	5.7	5.2	50.0	8.0
41	Terrier	5.7	4.8	48.3	6.0
42	CO3comp	5.6	6.2	55.0	5.7
43	DP50-9407	5.6	6.0	60.0	6.3
44	RK5	5.6	5.7	58.3	5.0
45	GWTF	5.6	5.2	45.0	7.3
46	TulsaIII	5.6	5.0	53.3	7.0
47	CS-TF1	5.6	5.0	43.3	8.7
48	Bonanzall	5.6	6.5	50.0	6.7
49	IS-TF-151	5.6	6.3	46.7	7.0
50	STR-8BPDx	5.6	5.7	56.7	6.3
51	PSG55-C-06	5.6	4.5	50.0	6.0
52	Col-J	5.6	4.3	46.7	7.7
53	RAD-TF33	5.6	6.3	56.7	6.0
54	Z-2000	5.6	6.3	53.3	6.0
55	RP3	5.6	6.2	53.3	6.0
56	Rhambler	5.6	6.0	50.0	6.0
57	Monet	5.6	5.0	60.0	5.0
58	PST-Syn-56Y	5.5	6.8	58.3	6.0
59	IS-TF-153	5.5	6.3	45.0	6.3
60	5WMB	5.5	5.8	60.0	6.7
61	Hemi	5.5	5.8	50.0	6.3
62	PSG23-06	5.5	5.7	46.7	6.0
63	AST7003	5.5	5.5	53.3	7.0
64	ATF1346	5.5	5.3	53.3	6.3
65	CE4	5.5	4.8	58.3	5.0
66	ATF1245	5.5	3.8	45.0	6.0
67	PSG67-C-06	5.5	6.0	60.0	6.0
68	IS-TF-138	5.5	5.7	48.3	6.7
69	IS-TF155	5.5	5.2	48.3	6.3
70	PST-5KB	5.5	3.7	61.7	6.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
71	TG50-9460	5.5	6.0	48.3	5.7
72	RAD-TF28	5.5	5.7	55.0	7.3
73	IS-TF160	5.5	5.5	46.7	6.3
74	RK-1	5.4	6.2	56.7	6.7
75	ATF1353	5.4	6.2	56.7	5.7
76	PSG67-B-06	5.4	5.7	53.3	6.3
77	NA-SS	5.4	5.0	51.7	7.0
78	MVS-TF-158	5.4	5.0	48.3	6.0
79	PSG77-C-06	5.4	4.8	55.0	7.0
80	MVS3609	5.4	4.7	56.7	5.7
81	ATF1329	5.4	4.7	55.0	6.7
82	JT-41	5.4	5.7	48.3	7.0
83	SR8600	5.4	5.5	58.3	6.0
84	LS-06	5.4	5.5	48.3	7.3
85	Turbo	5.4	6.5	53.3	5.3
86	Bingo	5.4	5.5	63.3	6.7
87	AR3comp	5.4	5.3	45.0	5.0
88	PSG21-AB-06	5.4	5.0	60.0	5.7
89	Col-M	5.3	6.2	43.3	7.3
90	AR2comp	5.3	6.0	53.3	5.3
91	Essential	5.3	5.7	55.0	5.7
92	STR-8LMM	5.3	5.7	48.3	6.3
93	ATF1324	5.3	5.5	46.7	6.3
94	Raptor	5.3	5.5	45.0	7.0
95	Banshee	5.3	5.0	43.3	7.3
96	Houndog6	5.3	6.3	46.7	7.3
97	ATF1247	5.3	5.3	51.7	6.7
98	PST-5WMB	5.3	6.8	50.0	6.3
99	ShenandoahIII	5.3	6.2	61.7	6.0
100	Bullseye	5.3	5.8	56.7	5.7
101	RAD-TF27	5.3	5.8	46.7	5.3
102	KZ-2	5.3	5.8	43.3	7.7
103	ATF1326	5.3	5.5	60.0	6.7
104	ATF1325	5.3	5.3	48.3	6.0
105	IS-TF118	5.3	5.2	51.7	8.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
106	AST7001	5.3	5.0	46.7	8.7
107	CE3comp	5.2	6.7	56.7	4.3
108	NA-BT-1	5.2	6.0	48.3	5.0
109	RAD-TF40	5.2	5.7	55.0	5.0
110	Prospect	5.2	5.7	51.7	5.3
111	Tombstone	5.2	5.5	55.0	7.3
112	LS-03	5.2	5.2	48.3	7.0
113	CortezII	5.2	4.3	51.7	6.0
114	STR8Rh8K	5.2	6.2	51.7	4.7
115	MVS-341	5.2	5.5	45.0	7.3
116	DaVinci	5.2	5.2	58.3	5.3
117	JT-33	5.2	4.8	51.7	6.7
118	CochiseIII	5.2	6.2	40.0	6.3
119	RAD-TF29	5.2	6.0	45.0	5.7
120	FalconIV	5.2	5.7	53.3	6.3
121	ATF1323	5.2	5.3	43.3	7.0
122	Prestige	5.2	5.2	60.0	6.7
123	J-130	5.2	5.0	51.7	7.0
124	MVS-BB-1	5.1	6.2	45.0	6.3
125	RebelIV	5.1	6.0	60.0	6.0
126	ATF1339	5.1	6.0	50.0	5.7
127	Titanium	5.1	5.7	51.7	6.7
128	AST-4	5.1	5.5	51.7	8.0
129	PSG-TTRH	5.1	5.5	48.3	6.7
130	Justice	5.1	5.2	56.7	5.7
131	ATF1332	5.1	5.2	55.0	7.0
132	Avenger	5.1	5.0	55.0	6.3
133	J-140	5.1	5.0	51.7	6.0
134	ATF1321	5.1	5.0	51.7	5.7
135	BBM	5.1	6.0	51.7	5.0
136	Rocket	5.1	6.0	46.7	6.0
137	ATF1331	5.1	4.8	45.0	6.3
138	PSG19-r3-06	5.1	4.5	56.7	5.7
139	PSG20-r4-06	5.1	4.5	50.0	5.7
140	Blackwatch	5.1	5.8	55.0	6.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
141	GE-1	5.1	5.8	53.3	5.3
142	AST7002	5.1	5.8	46.7	7.7
143	Tuxedo	5.1	5.2	48.3	7.0
144	PST-5DVDBulk	5.1	5.2	46.7	5.0
145	JT-42	5.1	5.0	56.7	5.3
146	CezaneRZ	5.0	6.0	58.3	4.3
147	DP50-9411	5.0	5.7	55.0	6.3
148	PSG19-r8-06	5.0	5.7	48.3	7.7
149	Tahoell	5.0	5.3	50.0	6.3
150	ATF1327	5.0	5.2	50.0	6.7
151	Col-1	5.0	5.0	51.7	6.0
152	ATF1330	5.0	4.3	51.7	6.0
153	FinelawnElite	5.0	6.3	45.0	5.0
154	CE2	5.0	6.2	60.0	5.0
155	ATF1344	5.0	6.0	55.0	6.7
156	ATF-1199	5.0	6.0	51.7	4.3
157	PST-5SXYBulk	5.0	5.8	58.3	4.7
158	Skyline	5.0	5.8	53.3	5.3
159	Guardian21	5.0	5.5	55.0	6.0
160	ATF1358	5.0	5.3	61.7	5.7
161	ATF1357	5.0	4.8	51.7	5.3
162	ATF1283	5.0	4.7	56.7	6.3
163	PSG19r4-06	5.0	4.7	46.7	7.0
164	PSG20bulk-06	5.0	4.5	50.0	6.0
165	ATF1360	5.0	4.3	63.3	6.3
166	BARFa6363	5.0	6.0	55.0	5.7
167	ScorpionII	5.0	5.7	53.3	4.7
168	ATF1248	5.0	5.5	53.3	5.0
169	ATF1112	5.0	5.3	61.7	5.3
170	RAD-TF31	5.0	5.3	56.7	7.0
171	Innovator	5.0	5.3	51.7	6.3
172	AST-2	5.0	5.3	40.0	6.3
173	PST-5MAC	5.0	5.2	56.7	4.7
174	PSG62-A-06	5.0	5.0	48.3	6.3
175	ATF1318	5.0	4.8	46.7	5.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
176	PSG18-A-06	5.0	4.7	43.3	6.0
177	ATF1334	5.0	4.2	48.3	6.3
178	PSG19-r5-06	5.0	4.2	45.0	6.7
179	0312	5.0	4.2	43.3	6.3
180	PST-5H20Bulk	4.9	5.8	56.7	5.7
181	Grandell	4.9	5.8	51.7	6.0
182	ATF1342	4.9	5.7	46.7	6.0
183	BARFa6253	4.9	5.5	53.3	5.3
184	ATF1343	4.9	5.5	43.3	6.3
185	CO2comp	4.9	5.3	55.0	5.3
186	STR86QRH	4.9	5.2	55.0	4.3
187	STR-8BB5	4.9	5.0	53.3	5.0
188	PSG19bulk-06	4.9	4.3	48.3	6.3
189	Forte	4.9	5.8	48.3	5.3
190	ATF1359	4.9	5.0	61.7	5.3
191	Einstein	4.9	4.8	56.7	4.7
192	ATF1203	4.9	6.2	58.3	5.0
193	ATF1200	4.9	5.7	53.3	5.7
194	MVS1200	4.9	5.7	53.3	5.3
195	RAD-TF32	4.9	5.5	56.7	5.3
196	RebelExceda	4.9	5.5	51.7	5.3
197	PST-5GZ6Bulk	4.9	5.3	46.7	7.0
198	ATF1320	4.9	5.3	46.7	6.0
199	ATF1338	4.8	5.8	45.0	6.0
200	PST-R5W3	4.8	5.5	56.7	5.7
201	Apachelll	4.8	5.3	63.3	5.3
202	PST-5JG6Bulk	4.8	5.3	46.7	5.3
203	SR8550	4.8	5.3	40.0	7.0
204	PSG-85QR	4.8	5.2	53.3	5.0
205	RAD-TF35	4.8	4.7	51.7	5.7
206	PSG20-r5-06	4.8	4.7	48.3	6.0
207	PSG9-A-06	4.8	4.7	48.3	5.7
208	ATF1335	4.8	5.8	51.7	4.7
209	BladeRunner	4.8	5.7	53.3	6.7
210	5V4	4.8	5.7	51.7	5.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
211	MatadorGT	4.8	5.7	43.3	7.3
212	Signia	4.8	5.7	43.3	6.3
213	ATF1107	4.8	5.5	50.0	4.7
214	ATF1333	4.8	5.5	46.7	7.0
215	Escalade	4.8	6.0	50.0	5.7
216	Magellan	4.8	5.8	55.0	5.3
217	PST-Syn-5WPM	4.8	5.5	53.3	5.3
218	Montana	4.8	5.5	45.0	6.7
219	STRRegQRD	4.8	5.2	51.7	6.3
220	PST-5LIV	4.8	5.2	46.7	5.7
221	Silverstar	4.8	5.0	50.0	6.0
222	ATF1345	4.8	4.7	48.3	5.7
223	RAD-TF30	4.7	5.8	56.7	6.3
224	ATF1336	4.7	4.8	48.3	5.0
225	PST-51L4	4.7	5.5	43.3	5.0
226	PST-R5EP	4.7	6.2	51.7	5.0
227	JT-36	4.7	5.8	50.0	7.0
228	DKS	4.7	5.8	43.3	7.3
229	ATF1262	4.7	5.7	48.3	6.0
230	PSG-82BR	4.7	5.5	51.7	5.0
231	STRTitQR	4.7	5.5	50.0	5.0
232	RegimentII	4.7	5.3	26.7	7.7
233	Dakota	4.6	6.3	38.3	6.7
234	PST-5R56	4.6	5.8	55.0	4.7
235	PSG-RNDR	4.6	5.5	53.3	5.3
236	RebelSentry	4.6	5.5	51.7	4.3
237	ATF1341	4.6	5.5	48.3	6.3
238	PSG20-r3-06	4.6	4.7	50.0	5.0
239	PSG19-r2-06	4.6	4.7	48.3	6.0
240	Burl-TF8	4.6	6.2	48.3	5.7
241	FalconNG	4.6	6.0	58.3	5.3
242	Padre	4.6	6.0	51.7	5.0
243	Biltmore	4.6	5.3	46.7	5.7
244	06-WALK	4.6	5.2	50.0	4.7
245	AR1comp	4.6	6.3	55.0	3.7

(Continued)



Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
246	CMcomp	4.6	6.0	48.3	4.0
247	STR8GRQR	4.6	5.5	56.7	5.3
248	RebelPro	4.5	5.7	48.3	5.3
249	PST-5HP	4.5	5.5	51.7	4.7
250	PSG18bulk-06	4.5	5.5	50.0	5.0
251	Trooper	4.5	5.0	58.3	4.3
252	CO1comp	4.5	5.2	56.7	3.3
253	STR86QRD	4.5	5.0	55.0	5.0
254	PSG19-r1-06	4.5	5.0	50.0	5.0
255	PST-R5B4Bulk	4.5	6.3	48.3	5.0
256	PST-5BGR-06	4.5	6.2	53.3	5.3
257	Silveradoll	4.5	6.2	51.7	5.7
258	PSG18-r4-06	4.5	5.5	51.7	4.7
259	MVS-1107	4.5	5.2	50.0	4.7
260	ATF1340	4.4	6.3	46.7	5.7
261	ATF1337	4.4	6.2	48.3	5.0
262	Plato	4.4	5.5	58.3	4.7
263	PST-5VI	4.4	6.2	56.7	4.3
264	PSG18-15-06	4.4	5.2	51.7	5.0
265	Constitution	4.4	5.2	48.3	5.0
266	PSG20-r2-06	4.4	5.2	43.3	5.3
267	06-DUST	4.4	4.8	56.7	6.3
268	PSG13-AB-06	4.4	4.2	41.7	5.3
269	PST-5MTVBulk	4.3	6.0	35.0	6.0
270	Aristotle	4.3	5.7	60.0	5.3
271	PSG19-r6-06	4.3	4.5	48.3	5.3
272	PST-5GH4	4.3	4.3	48.3	5.0
273	Greenkeeper	4.3	6.2	48.3	5.0
274	PSG20-r1-06	4.3	4.8	40.0	4.7
275	Rembrandt	4.3	5.8	60.0	5.0
276	AMF-107	4.2	4.3	75.0	6.3
277	PSG19-r7-06	4.2	4.2	40.0	6.3
278	PST-5SIS	4.2	5.8	58.3	4.3
279	Lindbergh	4.2	5.2	63.3	5.3
280	PSG18-r6-06	4.2	5.8	53.3	3.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 2007 Avg.	Brown Patch <sup>2</sup> 2007 Avg.	Establishment 2006 Avg. (%)	Color <sup>3</sup> 2007 Avg.
281	GO-1BFD	4.1	5.3	58.3	5.0
282	PSG18-r3-06	4.1	5.3	55.0	5.7
283	TarHeeIII	4.1	6.0	45.0	4.3
284	Watchdog	4.1	5.3	50.0	3.7
285	PSG-TTST	4.1	4.5	56.7	4.0
286	PSG10-A-06	4.1	4.0	53.3	3.7
287	PSG20-r1-06	4.0	5.7	46.7	4.3
288	ATF1350	4.0	5.8	63.3	5.0
289	STRTUQRD	3.9	5.5	51.7	5.0
290	Greystone	3.9	4.7	41.7	5.0
291	PSG18-r2-06	3.8	5.7	45.0	5.0
292	FivePoint	3.7	6.2	30.0	5.7
293	Tulsall	3.7	4.8	35.0	4.3
294	TitanLtd	3.4	5.2	36.7	2.7
295	Paraiso	3.4	4.8	56.7	3.3
296	Silverado	3.3	6.0	56.7	3.0
297	Ky-31	1.2	5.0	40.0	2.0
	LSD at 5% =	0.7	1.2	11.5	1.5

<sup>1</sup>9 = best turf quality<sup>2</sup>9 = least disease<sup>3</sup>9 = darkest genetic color

Table 6. Yearly nitrogen (N) applied and mowing height (Ht) on tall fescue tests established at Adelphia, NJ.

	2004		2005		2006		2007	
	N <sup>1</sup>	Ht <sup>2</sup>	N	Ht	N	Ht	N	Ht
Table 1 (2003).....	3.8	1.5	3.0	1.5	2.3	1.5	0.8	1.5
Table 2 (2004).....			2.3	1.5	3.8	1.5	1.5	1.5
Table 3 (2005).....					4.3	1.5	2.3	1.5
Table 4 (2005).....					4.3	1.5	3.5	1.5
Table 5 (2006).....							3.5	1.5

<sup>1</sup> Annual N applied (lb/1000 ft<sup>2</sup>)

<sup>2</sup> Mowing height in inches



*Cooperating Agencies:* Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.