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This publication includes lecture notes of papers presented at the 2004 New Jersey Turfgrass Expo. Publication of these lectures provides a readily available 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.

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

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

Jonathan Bokmeyer, William A. Meyer, James A. Murphy, Stacy A. Bonos, Ronald F. Bara,
Dirk A. Smith, Melissa M. Wilson, and William K. Dickson¹

Tall fescue (*Festuca arundinacea* Schreb.) is a cool-season grass native to Europe and parts of Africa that is widely used as both a forage and turfgrass in much of the United States. The popularity of tall fescue has continued to increase over the past 25 years due to significant improvements made in overall turf quality such as darker color, finer texture, denser canopy, and improved disease resistance. Compared to other cool-season grasses, tall fescue is able to perform well under low soil moisture conditions, a wide range of soil types, and lower fertilizer inputs, which also accounts for its increased use by turf managers.

The first introduction of tall fescue germplasm into the United States occurred in the 19th century. The species was initially used as a forage grass, and the first tall fescue cultivars to be used as turfgrass, Kentucky-31 and Alta, were introduced in the early 1940s. These older cultivars have a coarse leaf texture, light-green color, rapid vertical growth rate, and low shoot density, which results in poor turf quality when used as a turfgrass. Rebel tall fescue, which was released in 1980, is considered a landmark turf type cultivar, having a finer leaf texture, higher shoot density, darker green color, and lower growth habit than older cultivars. Although many cultivars with enhanced characteristics have since been released, Kentucky-31 is still sold in large quantities due to its low seed price.

Recent tall fescue releases can now be used effectively for a number of medium-high maintenance situations including athletic fields, parks, home lawns, and roughs on some golf courses. 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 inches and higher. This improvement is due to the efforts of plant breeders who have focused on developing tall fescue cultivars that exhibit darker green color, lower growth habit, higher shoot density, finer leaf texture, and increased resistance to disease. Tall fescue can also be used in low maintenance situations such as at roadsides and industrial sites.

Current research at the New Jersey Experiment Station includes the study of beneficial turfgrass endophytes in tall fescues. Endophytic fungi can live in leaf, sheath, and stem tissues of host plants and have been shown to enhance drought tolerance and resistance to insects. The development of cultivars that contain beneficial endophytes may lead to many more uses for tall fescue as a turfgrass. Plant breeders are also continually attempting to find new sources of endophytes. The incorporation of new germplasm containing endophytes permits turfgrass breeders to expand the genetic base of tall fescue used in cultivar development.

In other research efforts, studies are underway to breed rhizomes into tall fescue. Due to its bunch type growth habit, this grass is limited in its ability to spread and form a turf cover during establishment. In addition, rhizomes store carbohydrates that can be used to shorten recovery time when the turfgrass is injured. Since rhizomes are underground stems, they are protected from temperature extremes and wear damage, and thus they can contribute to an increase in the overall quality of the turf. Development of an improved, rhizomatous tall fescue could lead to better turf quality and greater use of tall fescue on home lawns and athletic fields.

¹Graduate Assistant, Professor, Associate Extension Specialist in Turfgrass Management, Assistant Professor, Principal Laboratory Technician, Principal Laboratory Technician, Head Greenhouse and Field Technician, and Turfgrass Research Farm Supervisor, respectively, New Jersey Agricultural Experiment Station, Cook College, Rutgers, The State University of New Jersey, New Brunswick, NJ 08901-8520.

PROCEDURES

Five tall fescue tests were established in New Jersey between 2000 and 2003. A single test was established each year at the Rutgers Plant Science Research and Extension Farm in Adelphia, NJ (Tables 1, 2, 4, and 5) and in 2001 at the Rutgers Horticultural Research Farm II in North Brunswick, NJ (Table 3). All tests at Adelphia were established in August or September by hand sowing 0.88 oz of seed per 3 X 5 ft plot (3.7 lb/1000 ft²). The test at North Brunswick was seeded in August and the plots were 4 X 6 ft (1.4 oz of seed per plot, or 3.6 lb/1000 ft²). All tests 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 and Banvel. Dimension was applied in the spring and fall to control annual grassy weeds. Prograss was applied in October to reduce contamination by *Poa annua* in the 2001 Adelphia trial. The North Brunswick test was also treated with Merit for grub control in July and Subdue for Pythium blight in August.

Single applications of nitrogen (N) fertilizer did not exceed 1.0 lb N/1000 ft². The amount and timing of N 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 N and mowing height for each test is presented in Table 6. Based on soil test results, tests were limed as needed to maintain a pH of 6.0 to 6.5. All tests were irrigated when necessary to avoid drought stress.

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 lack of damage from insects and diseases). Other ratings such as establishment, spring green-up, color, density, leaf texture, and disease damage were rated when significant differences were evident. All ratings were based on a 1 to 9 scale, with 9 representing the best turf characteristic. 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 the least significant difference (LSD) multiple comparisons test.

The 2000, 2001, 2002, and 2003 tall fescue tests at Adelphia were inoculated with *Rhizoctonia solani* (causal agent of brown patch) in July. These inoculations were done to provide a uniform disease pressure throughout the tests. The 2000 test did not provide sufficient disease to record accurate brown patch disease ratings.

RESULTS AND DISCUSSION

Results of the tall fescue tests can be found in Tables 1 through 5. All tests are ranked by the overall (multiple-year) (Tables 1 to 4) or 2004 (Table 5) turf quality averages. 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. Tables 2 and 3 include entries of the 2001 National Tall Fescue test sponsored by the National Turfgrass Evaluation Program (NTEP).

Turf Quality

Great improvements have been made in the overall turf quality of tall fescue. The early cultivars such as Kentucky-31 consistently rank near the bottom of tests when evaluated by turf quality. Indeed, a cultivar developed in 2000 may initially rank very high but may soon be outperformed by more recently-developed entries. Due to continued progress in cultivar enhancement, turfgrass managers should continually study all available data when making decisions.

Disease Resistance

The most troublesome disease of tall fescue is brown patch. There are no turf-type tall fescue cultivars with complete resistance to this disease; if environmental conditions conducive to disease development occur, all available cultivars will sustain some damage. A dense turf produces a microenvironment that is more favorable to brown patch, thus tall fescues with a more open canopy are being selected in further breeding efforts. Although these selections may not have the optimum density for some turf situations, the reduction in brown patch susceptibility may greatly enhance summer turf quality.

The brown patch data in Tables 2 to 5 indicate that while significant differences existed between cultivars and selections, each plot was affected to some

degree by this disease. Many of the new experimental selections such as ATE comp, ATM comp, and ATL comp showed excellent disease resistance and recovery, as did some of the newly released varieties such as Falcon IV and Justice.

In New Jersey, most improved tall fescue cultivars are able to recover fully from brown patch soon after the disease subsides. Treating for the disease, therefore, is not necessary in most situations.

Color

Breeding efforts over the past few decades have focused on the development of tall fescue cultivars that exhibit a darker green color. The dark green color of newer cultivars is reflected in the overall quality ratings in each of the tables. Much of the recent improvement that has been made in newer cultivars such as Bingo, Guardian 21, Justice, SR 8250, and Raptor can be attributed to a change in color from medium green (i.e. Rebel Jr. and Falcon II) to dark green.

SUMMARY

As plant breeders continue to develop cultivars with improved turf quality and disease resistance, tall

fescues will continue to be widely used in the turf industry. Improvements in shade tolerance, density, leaf texture, and color have made tall fescue a more popular selection in many turfgrass situations, including use in mixtures with other turfgrass species such as Kentucky bluegrass. Tall fescue performs better than most other cool-season turfgrasses under high temperature and low moisture conditions due, in part, to its extensive and deep root system. Endophyte-infected tall fescue cultivars are useful in certain stress situations and will continue to be studied. A major weakness of tall fescue is its susceptibility to brown patch, thus the Rutgers breeding program is focusing on developing cultivars that can better tolerate disease pressure.

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Table 1. Performance of tall fescue cultivars and selections in a turf trial established in August 2000 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----				
		2001-2004 Avg.	2001 Avg.	2002 Avg.	2003 Avg.	2004 Avg.
1	Guardian-21	6.6	6.8	6.6	7.0	6.0
2	Justice	6.3	6.0	6.7	6.5	6.0
3	10,001 comp	6.2	6.2	6.0	6.5	6.0
4	Titanium	6.1	6.5	6.0	6.3	5.7
5	Lexington	6.1	6.4	6.2	6.1	5.7
6	2nd Millennium	5.9	6.1	5.7	6.1	5.6
7	Bingo	5.8	5.9	5.8	5.9	5.8
8	Kalahari	5.8	6.1	5.8	5.9	5.5
9	OD1 comp	5.8	6.0	5.6	6.0	5.6
10	OD2 comp	5.8	5.9	5.4	5.8	5.9
11	Blackwatch	5.7	6.2	5.5	5.5	5.7
12	Forte	5.7	6.1	5.8	5.6	5.6
13	Magellan	5.7	6.1	5.5	5.6	5.6
14	Raptor	5.7	6.1	5.6	5.5	5.6
15	EA 171	5.7	6.0	5.9	5.7	5.2
16	Gremlin	5.7	6.1	5.6	5.6	5.5
17	Syn 578	5.6	6.1	5.7	5.5	5.2
18	Beagle 1	5.6	6.1	5.6	5.7	5.0
19	Biltmore	5.6	5.8	5.7	5.3	5.5
20	Syn 5MP	5.5	5.4	5.4	5.7	5.6
21	00-H FA	5.5	5.6	5.6	5.2	5.6
22	SR 8550	5.5	5.6	5.3	5.5	5.4
23	Syn 5BEH	5.4	5.4	5.3	5.2	5.8
24	00 GFA	5.4	5.9	5.4	5.1	5.4
25	Innovator	5.4	5.9	5.5	5.0	5.3
26	Rendition	5.4	5.6	5.5	5.3	5.1
27	Syn 5BAB	5.4	5.7	5.4	5.0	5.3
28	Syn 5NAS	5.4	5.5	5.1	5.6	5.3
29	Syn 5H2	5.3	5.3	5.1	5.5	5.2
30	5BE	5.3	5.3	5.0	5.3	5.6
31	Syn 5DWF	5.3	5.6	5.3	5.1	5.1
32	Santa Fe	5.3	5.2	5.6	5.1	5.2
33	Syn 5BZ	5.3	5.4	4.9	5.4	5.4
34	SRX 8DDMPP	5.2	5.4	5.3	5.2	5.0
35	00-A FA	5.2	5.3	5.1	5.4	5.1

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				
		2001-2004 Avg.	2001 Avg.	2002 Avg.	2003 Avg.	2004 Avg.
36	Riverside	5.2	5.2	5.0	5.4	5.3
37	BE-1	5.2	5.1	5.2	5.4	5.1
38	Dynamic	5.2	5.4	5.1	5.2	5.1
39	SR 8600	5.2	5.9	5.2	4.8	4.9
40	00-BFA	5.2	5.7	5.2	5.1	4.8
41	Syn 5KU	5.2	5.6	5.0	5.2	4.9
42	Syn 5A3	5.2	5.2	5.0	5.2	5.3
43	Mustang III	5.2	5.6	5.2	4.8	5.1
44	TF H-97	5.1	5.4	4.9	5.2	4.7
45	Picasso	5.1	5.4	5.1	4.7	5.0
46	EA 172	5.0	5.1	5.5	4.8	4.7
47	Syn 5T2	5.0	5.8	5.0	4.2	5.0
48	SRX 8601 E	5.0	5.2	5.1	4.5	5.1
49	Rembrandt	5.0	5.2	5.1	4.8	4.8
50	CAE comp	5.0	5.1	4.8	5.0	4.9
51	Yosemite	5.0	5.4	5.0	4.7	4.7
52	Syn-R54M-00	5.0	5.5	5.1	4.8	4.4
53	Southern Comfort	4.9	5.4	4.8	4.9	4.6
54	00-J FA	4.9	5.4	4.5	4.7	5.1
55	TF-41	4.9	5.0	5.0	4.7	5.1
56	Syn-R5JM-00	4.9	5.1	5.0	4.8	4.9
57	Syn TUO	4.9	5.1	5.1	4.7	4.8
58	MA 177	4.9	4.8	4.6	5.1	5.1
59	MA 160	4.9	5.1	4.9	4.8	4.9
60	MA 127	4.9	4.9	4.9	4.7	5.0
61	EA 155	4.9	5.1	4.9	4.8	4.7
62	E-97	4.9	5.6	5.0	4.7	4.3
63	FA6-91	4.9	5.5	5.0	4.6	4.3
64	EA 180	4.9	5.3	5.0	4.7	4.5
65	Tahoe	4.8	5.1	5.1	4.6	4.5
66	Turbo	4.8	5.0	4.9	4.5	4.9
67	SRX 8DDEOO	4.8	4.9	4.8	4.7	4.8
68	00-CFA	4.8	5.3	4.6	4.5	4.8
69	RT-95	4.8	4.6	4.6	4.9	5.2
70	Syn BRO	4.8	4.9	4.7	4.9	4.5

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				
		2001-2004 Avg.	2001 Avg.	2002 Avg.	2003 Avg.	2004 Avg.
71	Finelawn Elite	4.8	5.4	4.9	4.4	4.3
72	Matador	4.7	5.6	4.8	4.3	4.2
73	SRX 8CDEW	4.7	4.7	4.6	4.7	4.9
74	SRX 8BPDDE	4.7	5.2	4.6	4.3	4.5
75	Syn 5S2	4.6	5.0	4.7	4.4	4.5
76	SRX 8 FFT	4.6	5.3	4.5	4.5	4.3
77	Sun Pro	4.6	5.1	4.8	4.3	4.3
78	Olympic Gold	4.6	4.5	4.5	4.5	5.0
79	PENN 1901	4.6	5.1	4.7	4.4	4.2
80	Pure Gold	4.6	4.8	4.6	4.5	4.4
81	MA 165	4.6	4.6	4.8	4.1	4.8
82	8RF2	4.6	4.5	5.0	4.5	4.4
83	00-E FA	4.6	4.5	4.4	4.4	5.1
84	MA 178	4.6	4.6	4.7	4.5	4.6
85	Pick FA B93	4.6	4.9	4.8	4.2	4.4
86	Prospect	4.5	4.6	4.7	4.1	4.7
87	Syn 5G9	4.5	4.8	4.5	4.3	4.5
88	TF J-97	4.5	5.1	4.5	4.1	4.3
89	TF-40	4.5	4.7	4.6	4.2	4.5
90	SRX 8EDFF	4.5	4.7	4.5	4.4	4.4
91	00-D FA	4.5	4.8	4.2	4.3	4.7
92	Crewcut II	4.5	5.2	4.5	4.1	4.1
93	8OP22	4.5	4.5	4.7	4.2	4.5
94	P89 * SpL	4.5	4.9	4.2	4.3	4.4
95	Starfire	4.4	4.5	4.4	4.4	4.4
96	Syn 5CH	4.4	4.9	4.3	4.1	4.3
97	SRX 8 BPDDNE	4.4	4.9	4.3	4.0	4.3
98	EA 163	4.4	4.8	4.7	4.3	3.8
99	Millennium	4.4	4.8	4.5	4.2	3.9
100	GS bulk M2	4.4	4.6	4.4	4.1	4.4
101	Shortstop II	4.4	4.7	4.1	4.2	4.3
102	00-I FA	4.4	4.8	4.2	4.3	4.2
103	SR 8500	4.3	4.6	4.2	4.3	4.2
104	Tarheel	4.3	4.4	4.5	4.0	4.3
105	MA 158	4.3	4.4	4.6	4.2	4.0

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				
		2001-2004 Avg.	2001 Avg.	2002 Avg.	2003 Avg.	2004 Avg.
106	MA 98	4.3	4.3	4.5	4.3	4.1
107	ORE-00TF	4.3	4.9	4.2	4.1	4.0
108	8 S M2	4.3	4.9	4.3	3.9	4.0
109	Laramie	4.3	5.1	4.7	3.9	3.4
110	SRX 8MO961	4.2	4.7	4.0	4.2	4.0
111	TF-43	4.2	4.2	4.3	3.9	4.4
112	TF-42	4.2	4.2	4.0	4.0	4.6
113	GS bulk E1	4.2	4.5	4.2	3.8	4.2
114	P89 * SpE	4.2	4.2	4.1	4.1	4.2
115	Syn 5HUO	4.1	4.1	4.0	4.1	4.3
116	Hounddog 5	4.1	4.5	4.0	3.8	4.0
117	Bravo	4.0	5.1	4.0	3.4	3.6
118	5UP	4.0	4.4	4.2	3.6	3.9
119	Tomahawk E+	4.0	4.3	4.0	3.7	3.8
120	Coronado	4.0	4.5	4.2	3.7	3.5
121	Apache II	4.0	4.6	3.8	3.7	3.8
122	SRX 8 MO94	3.9	4.0	3.9	3.7	4.1
123	D5 ATF 00-6	3.9	3.9	4.0	3.8	4.0
124	Tomahawk	3.9	4.1	4.1	3.5	4.0
125	Crewcut	3.9	3.9	3.9	3.8	3.9
126	Coronado Gold	3.8	4.6	4.2	3.4	3.1
127	Rebel Jr.	3.8	4.4	3.6	3.4	3.8
128	T991-00	3.8	4.0	4.1	3.5	3.6
129	Lancer	3.8	4.3	3.9	3.3	3.6
130	SR 8210	3.8	3.8	4.0	3.6	3.6
131	Talisman	3.7	4.2	3.7	3.7	3.3
132	Regiment	3.7	4.0	3.4	3.5	4.0
133	Wolfpack	3.7	3.7	3.6	3.5	3.8
134	SRX LJHH	3.6	3.8	3.6	3.3	3.7
135	Bonanza II	3.6	3.8	3.5	3.4	3.7
136	Mustang II	3.6	3.7	3.3	3.5	3.9
137	Crossfire II	3.6	4.1	3.4	3.2	3.6
138	Grande	3.5	3.9	3.5	3.1	3.4
139	Confederate	3.4	3.6	3.3	3.2	3.5
140	GT 2K	3.4	3.0	3.9	3.0	3.6

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				
		2001-2004 Avg.	2001 Avg.	2002 Avg.	2003 Avg.	2004 Avg.
141	Hilltop TF	3.3	3.6	3.4	3.2	3.1
142	Eldorado	3.3	3.6	3.4	3.0	3.2
143	Torpedo	2.2	1.0	1.8	2.4	3.7
144	Kentucky 31	1.2	1.3	1.1	1.0	1.5
	LSD at 5% =	0.5	0.7	0.6	0.7	0.9

¹9 = best turf quality

Table 2. Performance of tall fescue cultivars and selections in a turf trial established in September 2001 at Adelphia, NJ. (Includes all entries in the 2001 National Tall Fescue Test sponsored by NTEP.)

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring	Brown	Density ⁴	Color ⁵
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	Green-up ² April 2004	Patch ³ July 2004	Oct. 2004	Oct. 2004
1	Justice	6.7	7.0	6.6	6.5	6.3	5.7	8.0	6.7
2	Avenger	6.5	7.1	6.2	6.3	5.3	5.0	6.7	6.3
3	Davinci	6.3	6.5	6.3	6.1	5.0	6.7	8.0	6.0
4	Rebel IV	6.3	6.5	6.3	6.1	6.7	6.3	7.3	5.3
5	Inferno	6.3	7.0	6.4	5.6	3.7	4.3	6.7	5.7
6	Falcon IV	6.3	6.6	6.2	6.1	6.3	5.3	8.0	6.0
7	Cochise III	6.2	6.4	6.2	6.0	5.7	6.3	6.7	6.0
8	L1D comp	6.1	6.4	6.2	5.9	3.7	5.7	7.0	5.7
9	L1F comp	6.1	6.4	5.8	6.0	4.7	5.7	8.0	6.0
10	Blackwatch	6.1	6.5	5.7	6.0	5.7	5.3	6.3	5.3
11	L11 comp	6.0	6.0	5.9	6.0	6.0	6.7	7.0	6.7
12	Biltmore	6.0	6.2	5.8	5.8	4.7	6.0	7.3	6.3
13	SBL	5.9	6.2	5.8	5.7	6.3	6.0	6.3	5.7
14	L1L comp	5.9	5.7	6.1	5.9	4.0	5.3	7.3	6.0
15	Guardian-21	5.9	6.0	5.9	5.7	4.3	6.7	7.3	4.7
16	Rebel Exeda	5.8	6.3	5.5	5.6	6.0	6.0	6.3	5.3
17	Raptor	5.8	6.0	5.7	5.7	2.3	5.7	6.7	7.0
18	Finelawn Elite	5.8	6.2	5.7	5.5	6.3	6.0	8.0	5.3
19	Coyote II	5.7	5.2	6.0	6.0	3.0	4.7	7.0	6.0
20	01-6TF	5.7	5.7	5.6	5.8	5.3	5.7	8.0	6.7
21	Bingo	5.7	5.4	5.8	6.0	4.7	5.0	6.3	7.7
22	Kalahari	5.7	5.8	5.7	5.6	5.0	5.3	6.7	6.3
23	2nd Millennium	5.6	5.4	5.8	5.7	5.3	6.0	7.0	5.3
24	Hounddog 6	5.6	5.2	5.8	5.7	3.3	6.0	6.3	6.7
25	Titanium	5.6	5.3	5.9	5.5	6.0	5.7	6.7	5.7
26	Cayenne	5.5	5.4	5.8	5.4	5.0	6.0	6.7	6.0
27	Escalade	5.5	5.2	5.5	5.9	7.0	5.7	7.0	5.7
28	Rendition	5.5	6.1	5.2	5.2	4.3	5.3	6.0	5.3
29	SRX 8DD MPP	5.4	6.0	4.9	5.4	4.0	4.3	7.3	5.7
30	CIS-TF 41	5.4	5.2	5.6	5.5	4.7	5.3	6.0	8.0
31	Turbo	5.4	5.4	5.6	5.2	5.0	5.3	7.0	5.7
32	Dynamic	5.4	6.0	5.2	5.0	4.0	5.7	6.3	5.0
33	SRX 8FFT	5.4	5.9	5.5	4.9	5.3	4.0	5.0	5.7
34	Padre	5.4	5.3	5.4	5.5	5.0	6.3	7.3	5.0
35	Greenkeeper WAF	5.4	5.8	5.3	5.0	7.3	5.7	5.7	4.7

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2004	Brown Patch ³ July 2004	Density ⁴ Oct. 2004	Color ⁵ Oct. 2004
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.				
36	Forte	5.4	5.7	5.5	4.9	5.3	5.0	5.7	5.7
37	BAR Fa 1005	5.4	5.3	5.4	5.4	5.7	7.0	6.0	5.7
38	Cortez II	5.4	5.5	5.5	5.1	3.7	4.0	5.7	8.0
39	01 5TF	5.4	5.4	5.5	5.2	4.7	4.7	6.3	7.3
40	Mustang 3	5.3	5.2	5.3	5.5	4.7	6.3	6.3	5.3
41	PST-DDL	5.3	5.8	5.1	5.0	3.3	3.0	6.0	6.0
42	Firebird	5.3	4.8	5.3	5.8	4.3	4.3	5.0	8.3
43	Beagle 1	5.3	5.6	5.3	4.9	3.0	3.3	5.0	6.7
44	PST-5FZD	5.3	5.0	5.3	5.5	4.0	5.3	6.0	5.7
45	MA 158	5.3	5.1	5.3	5.4	3.3	4.7	4.7	7.0
46	CIS-TF-60	5.3	4.1	5.6	6.2	4.3	4.7	6.3	9.0
47	CIS-TF-77	5.3	5.1	5.3	5.4	4.7	5.3	6.0	5.3
48	SR 8550	5.3	5.9	5.1	4.8	2.3	4.3	6.0	6.7
49	Five Point	5.3	5.6	5.3	4.9	4.0	5.3	6.3	5.7
50	Ultimate	5.3	4.7	5.2	5.9	6.0	6.0	8.0	6.3
51	Fidelity	5.3	5.0	5.3	5.5	5.3	6.3	6.3	4.7
52	K01-E03	5.2	4.6	5.5	5.7	5.0	4.3	8.0	6.3
53	BE-1	5.2	5.2	5.2	5.3	7.0	5.3	6.3	5.7
54	Corgi	5.2	4.8	5.4	5.5	3.7	3.3	5.7	5.7
55	SRX 8601	5.2	5.3	5.1	5.2	3.3	6.0	5.0	7.0
56	Rebel Sentry	5.2	5.8	5.2	4.6	4.3	4.3	5.0	6.3
57	Scorpion 2	5.2	4.8	5.2	5.6	3.0	5.7	6.3	6.0
58	5BUD	5.2	5.2	5.2	5.1	5.0	6.7	6.3	5.0
59	5BU	5.2	5.2	5.3	5.1	4.0	6.7	7.0	5.0
60	Magellan	5.2	4.8	5.3	5.4	4.3	6.7	5.3	5.0
61	Dynasty	5.2	5.2	5.0	5.3	4.7	5.7	7.3	5.0
62	01-3TF	5.2	5.3	5.0	5.2	4.0	5.0	5.7	5.0
63	5PAL	5.1	5.5	4.9	5.0	5.3	6.0	6.0	4.3
64	UT-155	5.1	5.1	5.0	5.2	4.3	4.3	5.3	6.7
65	Riverside	5.1	5.3	5.1	4.9	4.0	5.0	5.3	5.3
66	Blade Runner	5.1	5.1	5.0	5.3	4.3	4.7	5.3	5.7
67	Apache III	5.1	5.1	5.2	5.0	4.3	5.3	5.0	5.7
68	Pick TF FD-97	5.1	4.8	5.2	5.3	4.3	6.0	6.0	6.3
69	Pick 00 BFA	5.1	5.3	4.9	5.1	5.0	5.7	5.3	6.7
70	Lexington	5.1	4.9	5.1	5.3	4.3	6.3	6.7	7.0

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring	Brown	Density ⁴	Color ⁵
		2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	Green-up ² April 2004	Patch ³ July 2004	Oct. 2004	Oct. 2004
71	Tahoe	5.1	5.1	5.0	5.2	3.3	5.0	5.0	7.0
72	Serengeti	5.1	5.0	5.2	5.1	5.7	6.3	5.7	5.7
73	Quest	5.1	5.5	4.6	5.1	4.0	4.7	5.3	6.0
74	5BUL	5.1	5.0	5.0	5.3	5.0	4.7	5.7	4.3
75	Matador	5.1	5.6	5.0	4.6	3.7	2.7	4.3	7.0
76	Gremlin	5.1	5.1	5.2	4.9	6.3	4.7	4.3	6.3
77	Innovator	5.1	5.0	5.1	5.1	5.7	5.3	6.0	5.0
78	01-7TF	5.1	4.9	4.9	5.4	4.7	5.3	6.3	5.3
79	Tuxedo	5.0	4.6	5.3	5.2	3.7	4.3	5.7	7.3
80	ATF 859	5.0	4.9	5.1	5.1	3.3	5.0	6.0	5.3
81	ATF 866	5.0	4.6	5.1	5.4	4.3	4.7	6.7	7.3
82	SR 8250	5.0	5.3	4.9	4.8	5.0	5.3	4.7	5.3
83	Pure Gold	5.0	5.5	5.0	4.5	2.7	4.0	4.3	6.0
84	JT-12	5.0	4.5	5.1	5.3	2.7	5.0	6.3	6.0
85	PST-5BZ	5.0	5.1	4.9	5.0	4.7	5.3	5.7	5.3
86	JT-15	5.0	4.6	5.2	5.2	3.7	5.0	6.7	6.3
87	Adam's Valley	5.0	5.3	4.9	4.8	4.3	4.0	4.7	6.3
88	Masterpiece	5.0	4.5	5.0	5.4	5.7	6.3	6.3	4.3
89	CIS TF-78	5.0	4.6	5.3	5.0	3.3	4.7	4.3	7.7
90	Constitution	5.0	4.9	5.0	5.0	4.7	6.3	5.3	5.3
91	5BRO	5.0	4.8	4.9	5.2	5.7	6.0	5.3	2.7
92	01-4TF	4.9	5.0	4.7	5.1	5.7	5.7	6.3	7.0
93	Rembrandt	4.9	4.9	4.8	5.0	5.7	5.3	5.7	4.7
94	01-ORTF2W	4.9	4.7	5.0	5.1	5.3	6.3	6.0	5.7
95	K01-E09	4.9	4.2	5.0	5.5	5.3	5.3	6.7	6.0
96	JT-6	4.9	4.5	5.0	5.2	2.7	4.7	5.7	7.0
97	SR 8600	4.9	5.3	4.9	4.5	4.0	4.0	5.7	5.0
98	Picasso	4.9	5.2	4.8	4.7	4.3	4.3	5.3	5.3
99	PST-5S12	4.9	5.0	4.9	4.8	5.3	5.0	5.0	3.7
100	Finesse II	4.9	4.7	5.1	4.9	4.0	5.3	6.3	7.3
101	01-8TF	4.9	5.0	4.7	5.0	5.3	5.0	6.0	6.3
102	Sunpro	4.9	5.3	4.5	4.8	4.0	5.3	4.3	6.3
103	PST-5JM	4.9	4.8	5.0	4.9	4.0	4.7	5.3	6.0
104	Pick SM4	4.9	4.8	4.6	5.3	4.3	4.7	5.3	5.7
105	JT-13	4.9	4.4	5.1	5.2	3.0	4.3	4.3	7.3

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring	Brown	Density ⁴	Color ⁵
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	Green-up ² April 2004	Patch ³ July 2004	Oct. 2004	Oct. 2004
106	Crossfire II	4.9	4.9	4.7	5.1	4.7	5.7	5.0	5.0
107	01-ORTFZS	4.9	4.5	4.9	5.2	5.0	6.0	5.0	6.0
108	Matador GT	4.9	4.6	5.1	4.9	5.0	4.7	5.7	6.7
109	K01-8007	4.9	4.3	5.0	5.3	2.3	4.0	7.0	6.3
110	PENN 1901	4.9	5.7	4.7	4.2	4.3	4.7	4.0	5.0
111	PST-53T	4.8	4.9	4.8	4.9	4.3	5.0	4.7	7.3
112	Silverado II	4.8	4.6	4.7	5.1	4.7	6.7	5.3	4.7
113	Crewcut II	4.8	5.5	4.6	4.4	3.0	4.3	4.0	5.3
114	Covenant	4.8	4.2	4.8	5.5	3.7	4.7	7.0	5.3
115	Olympic Gold	4.8	5.1	4.7	4.7	5.3	5.3	4.3	5.0
116	MA-127	4.8	4.7	4.9	4.9	3.7	4.3	5.0	6.0
117	CIS TF 66	4.8	4.8	4.8	4.9	5.7	4.3	5.7	7.3
118	CAS-ED	4.8	4.7	4.6	5.2	4.7	6.0	5.3	5.7
119	PST-5NAS	4.8	4.7	5.0	4.7	5.3	4.7	5.3	4.0
120	Wolfpack	4.8	5.0	4.6	4.8	7.3	6.3	3.7	3.3
121	Silverstar	4.8	4.7	4.7	5.0	5.7	6.0	5.7	4.7
122	PST-5KU	4.8	4.7	5.1	4.6	4.0	4.0	4.0	5.7
123	JT-9	4.8	4.3	4.8	5.3	4.3	4.7	5.7	7.3
124	Grande II	4.8	4.7	4.8	4.9	4.0	4.0	5.7	5.0
125	ATF 894	4.8	4.4	4.7	5.2	3.3	4.7	5.3	8.7
126	Tar Heel II	4.8	4.6	4.7	5.0	5.7	6.7	4.7	3.7
127	MRF-29	4.8	4.5	4.7	5.0	3.7	3.3	4.3	7.0
128	Pick 00 CFA	4.7	4.8	4.6	4.8	4.7	5.7	4.7	5.3
129	FA 20-92	4.7	5.2	4.7	4.4	3.3	4.3	5.3	6.3
130	SRX 8ED FF	4.7	5.0	4.5	4.7	4.0	5.0	5.0	4.3
131	EA-163	4.7	4.7	4.9	4.6	4.3	4.3	3.7	6.3
132	Pick TF BA-97	4.7	4.4	4.6	5.2	5.3	6.7	6.0	6.7
133	Regiment II	4.7	4.8	4.8	4.5	3.3	4.0	4.3	7.0
134	PST-5LO	4.7	4.7	4.7	4.7	4.3	6.7	5.3	4.7
135	ATF 847	4.7	4.4	4.7	5.0	3.3	5.7	6.0	6.3
136	ATF 805	4.7	4.8	4.9	4.5	3.0	4.7	4.7	7.3
137	Arid 3	4.7	5.1	4.5	4.5	3.3	5.0	5.3	6.0
138	5V1	4.7	4.7	4.6	4.8	4.0	5.3	5.3	4.0
139	Pick-OD-AFA	4.7	4.8	4.8	4.5	5.3	5.0	4.7	5.3
140	Pick TF H-97	4.7	4.9	4.5	4.6	4.3	6.0	4.0	5.7

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring	Brown	Density ⁴	Color ⁵
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	Green-up ² April 2004	Patch ³ July 2004	Oct. 2004	Oct. 2004
141	Pick 00-AFA	4.7	4.9	4.7	4.4	5.0	4.7	4.3	5.0
142	Greystone	4.7	4.2	4.5	5.4	4.0	5.3	7.3	5.0
143	Arabia	4.7	5.5	4.2	4.3	4.3	4.3	3.7	6.3
144	5TDH	4.7	4.6	4.6	4.9	5.0	5.7	5.7	6.0
145	PST-5BAB	4.7	4.6	4.7	4.7	4.7	5.0	5.0	4.3
146	01-ORTF2T	4.7	4.6	4.6	4.7	4.3	5.3	4.7	5.7
147	GA 011	4.7	4.8	4.3	4.8	5.3	5.0	4.3	4.0
148	Barrera	4.6	5.3	4.5	4.1	5.0	3.7	3.3	4.3
149	Scorpion	4.6	4.2	4.6	5.1	4.3	6.7	6.3	4.3
150	MRF-27	4.6	4.7	4.5	4.7	4.0	4.3	4.7	6.3
151	SRX 8CD EW	4.5	4.6	4.3	4.7	4.3	3.7	6.3	5.0
152	ATF 864	4.5	5.1	4.2	4.3	2.3	4.3	4.0	6.0
153	Signia	4.5	4.6	4.7	4.2	3.0	5.0	4.3	6.0
154	Prospect	4.5	4.9	4.4	4.3	5.0	4.3	3.7	6.0
155	5RZS	4.5	4.3	4.7	4.6	3.7	4.3	4.3	4.0
156	SRX 82RH2	4.5	4.6	4.3	4.7	3.3	6.7	4.7	5.3
157	ATF 895	4.5	4.2	4.3	5.1	4.0	4.3	5.7	6.7
158	ATF 861	4.5	4.2	4.4	4.9	3.3	5.7	6.0	4.7
159	ATF 857	4.5	4.3	4.3	4.8	4.0	4.3	4.0	4.7
160	NA-TDD	4.5	4.1	4.5	4.8	3.0	4.3	5.0	6.3
161	Focus	4.5	4.8	4.4	4.2	5.0	4.3	4.0	5.0
162	Barrington	4.4	4.9	4.4	4.1	4.0	4.3	3.3	5.3
163	Watchdog	4.4	4.8	4.2	4.2	4.7	4.7	4.3	4.0
164	MA 138	4.4	4.6	4.3	4.4	4.7	5.7	4.0	5.7
165	ATF 806	4.4	4.2	4.3	4.8	3.0	4.7	7.0	5.7
166	MRF-28	4.4	4.4	4.3	4.6	3.3	4.3	3.7	8.0
167	Pick TF DC-97-98	4.4	4.3	4.1	4.7	4.3	4.3	5.3	6.0
168	ATF 860	4.4	4.2	4.1	4.8	5.0	5.3	5.7	5.3
169	Millennium	4.4	4.6	4.3	4.3	4.3	5.0	3.7	3.7
170	Stonewall	4.3	3.8	4.6	4.6	3.0	5.0	4.7	7.0
171	DLFJ 211	4.3	4.6	4.3	4.2	4.0	4.7	4.3	5.7
172	Barlexas II	4.3	5.2	4.0	3.8	3.7	3.3	2.7	6.3
173	BAR Fa 1003	4.3	4.1	4.5	4.4	4.0	5.3	3.7	5.7
174	Pick ZMG	4.3	4.3	4.4	4.2	4.0	4.7	4.0	6.0
175	Tracer	4.3	5.0	4.2	3.7	4.3	2.7	3.0	6.0

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2004	Brown Patch ³ July 2004	Density ⁴ Oct. 2004	Color ⁵ Oct. 2004
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.				
176	Arizona	4.3	4.6	4.5	3.9	3.3	4.7	3.7	6.3
177	Wyatt	4.3	4.6	3.9	4.3	5.0	6.0	4.3	3.7
178	Tar Heel	4.3	4.5	4.2	4.2	5.7	5.7	3.7	4.3
179	MRF-210	4.3	4.2	4.2	4.4	4.0	4.3	3.7	6.3
180	ATF 586	4.3	4.2	4.1	4.6	3.0	4.7	6.3	3.7
181	MRF-211	4.3	4.1	4.3	4.4	3.7	4.0	5.0	6.0
182	MRF-26	4.3	4.0	4.1	4.6	3.3	5.7	4.0	7.3
183	Tulsa	4.2	4.3	4.0	4.5	4.0	5.0	5.0	4.7
184	Kitty Hawk 2000	4.2	4.0	4.1	4.7	4.3	3.7	3.7	6.3
185	ATF 807	4.2	4.0	4.3	4.4	3.3	4.0	4.7	6.0
186	SR 8500	4.2	4.6	3.9	4.1	4.3	5.0	3.7	4.3
187	Ninja 2	4.2	4.0	4.3	4.4	2.3	4.7	4.7	5.0
188	GS Bulk E-99	4.2	4.4	3.9	4.3	5.7	5.3	5.0	3.7
189	Expedition	4.2	4.2	4.0	4.3	3.7	4.0	3.3	6.3
190	DLFJ 209	4.2	4.0	4.1	4.4	3.3	4.3	4.7	4.3
191	Laramie	4.1	4.9	3.8	3.7	3.7	3.7	2.3	4.3
192	DP 50-9226	4.1	3.7	4.0	4.6	5.0	4.3	5.0	4.7
193	Alamo	4.1	4.8	3.7	3.8	3.3	3.3	3.0	5.3
194	Jaguar 3	4.1	4.2	3.9	4.2	6.0	5.0	4.0	3.7
195	Tomahawk GT	4.1	4.5	3.9	3.8	4.0	3.7	3.0	5.7
196	T991	4.1	4.4	3.8	4.0	3.0	4.0	3.7	5.3
197	Endeavor	4.1	4.3	3.8	4.2	6.0	6.0	4.7	2.7
198	Coyote	4.1	4.8	3.7	3.7	3.7	4.0	2.3	5.3
199	Titan Ltd	4.1	4.7	3.7	3.8	4.0	5.3	4.0	2.0
200	MRF-25	4.1	4.2	4.1	3.8	3.7	4.3	4.0	5.7
201	ATF 863	4.0	4.7	3.8	3.6	1.7	4.3	3.3	4.3
202	01-ORTF3	4.0	3.6	3.8	4.6	5.3	4.7	6.0	5.3
203	Lancer E	4.0	4.0	3.8	4.2	7.0	3.3	3.7	4.0
204	Trooper	4.0	3.9	3.8	4.3	6.7	4.7	4.0	5.0
205	Southern Choice	4.0	4.1	4.1	3.7	4.0	5.3	2.3	6.3
206	SRX 82RH1	3.9	3.5	3.6	4.8	5.7	5.7	6.7	3.7
207	BAR Fa 1CR 7	3.9	4.3	3.7	3.8	4.0	4.3	2.7	7.7
208	ATF 704	3.9	3.8	3.7	4.4	3.0	5.7	5.7	4.3
209	Bravo	3.9	4.4	3.7	3.5	4.0	4.7	3.0	4.0
210	TF66	3.9	4.3	3.8	3.6	4.7	3.0	3.0	4.0

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2004	Brown Patch ³ July 2004	Density ⁴ Oct. 2004	Color ⁵ Oct. 2004
		2002- 2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.				
211	CIS TF 40	3.9	4.1	3.8	3.8	3.3	4.7	3.3	5.3
212	SR 8210	3.9	4.0	3.5	4.1	4.7	5.0	3.3	3.3
213	Regiment	3.8	4.2	3.6	3.7	5.3	5.3	3.3	3.0
214	DLF-J210	3.8	3.9	3.7	3.8	4.0	4.7	3.0	5.0
215	Barlexas	3.8	4.1	3.8	3.5	4.7	3.7	2.7	3.7
216	Talisman	3.8	4.1	3.7	3.6	4.3	5.0	3.3	3.0
217	Starlet	3.8	4.3	3.6	3.4	5.3	3.7	2.7	3.0
218	Legitimate	3.7	3.5	3.8	3.9	3.7	4.7	4.0	4.0
219	Daytona	3.7	4.1	3.6	3.5	3.7	3.0	2.0	6.3
220	Tulsa II	3.7	4.1	3.6	3.5	3.7	4.0	3.3	4.3
221	Grande	3.7	3.9	3.3	3.9	6.3	5.7	3.7	2.3
222	Dominion	3.6	3.8	3.8	3.3	4.0	4.0	3.0	3.3
223	ATF 865	3.6	3.4	3.5	4.1	3.7	4.3	3.3	5.7
224	BAR Fa 1002	3.6	3.5	3.4	4.0	4.0	5.7	3.3	4.7
225	Stetson	3.6	3.8	3.5	3.5	6.3	3.7	2.7	2.7
226	Bonanza II	3.6	4.0	3.1	3.7	7.3	6.0	3.0	2.7
227	01-ORTF2	3.6	3.4	3.8	3.6	4.3	4.0	2.7	5.3
228	Tempest	3.6	3.9	3.5	3.4	4.3	4.0	1.7	6.3
229	JTTF-2000	3.6	3.9	3.3	3.5	3.0	3.0	2.0	6.3
230	South Paw	3.5	3.7	3.4	3.5	4.0	4.0	1.7	5.0
231	Mustang II	3.4	3.7	3.2	3.2	5.7	4.3	2.0	2.7
232	Elisa	3.4	3.6	3.2	3.3	7.0	4.7	3.0	2.0
233	DLFJ 9178	3.4	3.8	3.0	3.3	4.0	4.3	2.3	3.0
234	GO-SIU2	3.3	3.2	3.1	3.7	4.3	4.7	3.7	5.0
235	Falcon II	3.3	3.4	3.2	3.3	5.7	4.3	2.0	2.7
236	Crewcut	3.3	3.7	3.1	3.0	5.0	3.3	2.3	2.3
237	DP 50-9082	3.2	2.6	3.1	3.8	5.3	4.0	4.0	2.3
238	Floridian	3.1	3.4	2.8	3.2	7.0	6.0	2.3	1.0
239	ATF 707	3.1	3.2	2.8	3.3	3.0	4.3	2.7	5.3
240	GO-RD4	2.9	3.2	2.8	2.8	4.7	3.7	1.7	3.0
241	Bonsai	2.9	3.3	2.6	2.8	3.7	4.3	2.0	4.0
242	Total	2.4	2.5	2.2	2.6	6.3	5.3	2.3	1.3
243	Tipton	2.2	2.0	1.9	2.6	6.7	6.0	2.0	1.7
244	Kentucky-31 E+	1.1	1.3	1.0	1.0	7.7	4.7	1.0	1.0

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ²	Brown Patch ³	Density ⁴	Color ⁵
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	April 2004	July 2004	Oct. 2004	Oct. 2004
LSD at 5% =	0.5	0.7	0.6	0.7	1.5	1.7	1.7	1.5

¹9 = best turf quality

²9 = earliest spring green-up

³9 = least disease

⁴9 = best turf density

⁵9 = darkest green color

Table 3. Performance of tall fescue cultivars and selections in a turf trial established in September 2001 at North Brunswick, N.J. (Includes all entries of the 2001 National Tall Fescue Test sponsored by NTEP.)

Cultivar or Selection	Turf Quality ¹			Recovery From Traffic ¹		Recovery From Traffic		Brown Patch ²		Color ³		Density ⁴		Leaf Texture ⁵	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2004 April	2004 May	2004	2004 Aug.	2004 Nov.	2004	2004 Nov.	2004	2004 Nov.	2004	2004
1 Rebel IV	6.5	6.7	6.2	6.6	3.0	4.7	5.0	6.7	7.0	6.3	7.0	6.3			
2 Inferno	6.2	7.0	5.5	6.2	3.7	3.7	5.0	5.7	7.0	6.7	7.0	6.7			
3 Falcon IV	6.2	6.8	5.1	6.7	4.0	5.3	6.0	7.7	7.7	7.0	7.7	7.0			
4 Coyote II	6.2	6.9	5.8	5.9	4.0	4.7	4.7	7.0	7.0	7.0	7.0	7.0			
5 Avenger	6.2	6.7	5.5	6.3	2.7	3.0	5.7	7.0	7.0	6.7	7.0	6.7			
6 LIF Comp	6.1	6.8	5.8	5.9	5.7	6.3	5.3	6.7	7.0	6.7	7.0	6.7			
7 Davinci	6.0	6.0	5.4	6.5	3.0	3.7	5.3	6.3	7.3	7.0	7.3	7.0			
8 LID Comp	6.0	6.4	5.4	6.1	4.0	5.0	5.0	6.7	7.0	6.7	7.0	6.7			
9 LIL Comp	6.0	6.4	5.5	5.9	5.3	5.7	4.7	7.0	7.7	6.7	7.7	6.7			
10 Padre	5.9	5.7	5.7	6.2	4.3	5.0	4.0	6.3	7.0	6.7	7.0	6.7			
11 Justice	5.8	6.9	5.0	6.2	2.7	3.3	4.7	6.7	7.7	6.3	7.7	6.3			
12 Bingo	5.8	5.8	5.6	6.1	5.0	5.3	4.3	7.3	7.0	6.3	7.0	6.3			
13 Finelawn Elite	5.8	5.9	5.5	6.0	4.0	5.7	6.7	6.3	6.7	6.0	6.7	6.0			
14 Cayenne	5.8	5.7	5.6	6.1	3.7	4.3	5.0	6.0	6.7	5.7	6.7	5.7			
15 LII Comp	5.8	6.4	5.1	5.9	3.7	4.0	4.3	6.0	6.3	6.7	6.3	6.7			
16 2nd Millennium	5.8	5.6	5.6	6.1	4.7	5.0	5.7	5.3	6.3	6.0	6.3	6.0			
17 Escalade	5.8	5.6	5.5	6.3	4.7	5.3	4.7	6.0	6.3	7.3	6.3	7.3			
18 Blackwatch	5.7	5.9	5.4	5.8	5.7	6.3	6.3	6.3	6.3	6.0	6.3	6.0			
19 Guardian-21	5.7	5.7	5.7	5.8	3.7	4.3	4.7	6.0	7.0	7.0	7.0	7.0			
20 Tar Heel II	5.7	5.3	6.3	5.5	5.3	4.3	5.3	7.3	6.7	6.0	6.7	6.0			

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹			Recovery From Turf Quality ¹		Recovery From Traffic ¹		Recovery From Traffic		Brown Patch ²		Color ³		Density ⁴		Leaf Texture ⁵	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.
21	5.6	5.9	5.1	5.9	3.7	3.3	4.0	4.3	4.3	4.3	7.0	7.0	7.0	7.0	5.7	5.7	
22	5.6	5.4	5.5	6.0	5.2	5.0	5.3	5.7	5.3	5.0	6.7	7.3	7.3	7.0	7.0	7.0	
23	5.6	5.6	5.3	5.9	3.5	3.3	3.7	4.7	5.7	5.7	6.3	7.7	7.7	6.7	6.7	6.7	
24	5.6	5.5	5.7	5.7	4.0	4.0	4.0	4.7	4.7	5.0	7.0	6.7	6.7	6.3	6.3	6.3	
25	5.5	5.4	5.5	5.7	4.0	3.7	4.3	4.7	5.3	5.3	6.7	7.0	7.0	6.3	6.3	6.3	
26	5.5	5.5	5.1	6.1	3.7	3.0	4.3	4.7	2.3	2.3	5.3	7.3	7.3	7.3	7.3	7.3	
27	5.5	5.8	5.3	5.5	5.7	5.7	5.7	4.7	5.7	5.7	7.0	7.0	7.0	6.0	6.0	6.0	
28	5.5	6.1	4.8	5.6	4.7	4.7	4.7	4.7	4.7	4.7	7.0	6.7	6.7	6.3	6.3	6.3	
29	5.5	5.3	5.4	5.8	5.0	5.3	4.7	4.7	5.7	5.7	7.0	7.0	7.0	7.0	7.0	7.0	
30	5.5	6.0	5.2	5.6	3.7	3.3	4.0	4.7	4.3	4.3	6.7	7.7	7.7	6.3	6.3	6.3	
31	5.5	5.5	5.2	5.7	4.2	4.3	4.0	4.7	5.0	5.0	6.0	6.7	6.7	5.3	5.3	5.3	
32	5.5	5.3	5.4	5.9	4.3	5.0	3.7	4.3	5.3	5.3	6.7	6.0	6.0	6.0	6.0	6.0	
33	5.4	5.7	5.3	5.4	4.8	4.3	5.3	4.7	5.0	5.0	6.3	6.3	6.3	6.3	6.3	6.3	
34	5.4	5.5	5.1	5.6	5.3	5.7	5.0	4.7	6.3	6.3	6.7	7.3	7.3	6.7	6.7	6.7	
35	5.4	5.4	5.0	5.9	4.7	5.0	4.3	4.7	4.3	4.3	6.7	6.7	6.7	6.3	6.3	6.3	
36	5.4	5.4	5.1	5.6	4.3	4.3	4.3	4.7	5.3	5.3	6.7	6.7	6.7	6.0	6.0	6.0	
37	5.3	5.2	5.1	5.6	4.3	4.0	4.7	4.7	5.0	5.0	6.3	6.7	6.7	6.3	6.3	6.3	
38	5.3	5.4	4.8	5.9	3.3	3.0	3.7	3.7	4.7	4.7	6.7	7.0	7.0	6.3	6.3	6.3	
39	5.3	5.3	4.8	5.8	4.5	4.3	4.7	4.7	5.0	5.0	6.3	7.0	7.0	6.3	6.3	6.3	
40	5.3	5.1	5.4	5.5	4.2	4.0	4.3	4.7	4.0	4.0	7.0	7.0	7.0	6.0	6.0	6.0	
41	5.3	5.2	5.1	5.6	4.5	4.3	4.7	4.7	4.0	4.0	6.3	6.3	6.3	6.7	6.7	6.7	
42	5.3	5.2	5.2	5.5	6.0	6.3	5.7	5.7	3.7	3.7	6.7	6.7	6.7	5.7	5.7	5.7	
43	5.3	5.7	5.4	5.0	4.2	4.0	4.3	4.3	4.3	4.3	6.3	6.7	6.7	6.3	6.3	6.3	
44	5.2	5.4	4.7	5.6	6.0	5.7	6.3	6.3	4.7	4.7	6.7	6.0	6.0	5.7	5.7	5.7	
45	5.2	5.3	4.9	5.4	4.8	4.0	5.7	5.7	5.3	5.3	4.3	6.3	6.3	6.3	6.3	6.3	

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹				Recovery From Turf Quality ¹		Recovery From Traffic ¹		Recovery From Traffic ²		Recovery From Traffic ³		Recovery From Traffic ⁴		Recovery From Traffic ⁵	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2003 Avg.	2004 Avg.	April 2004	May 2004	Aug. 2004	Nov. 2004	Nov. 2004	Nov. 2004	Nov. 2004	Nov. 2004	Nov. 2004	Nov. 2004
46 CIS-TF-60	5.2	5.6	4.8	5.3	4.8	5.3	3.0	3.7	4.7	6.7	6.3	5.7	6.3	6.3	5.7	
47 PST-DDL	5.2	6.0	4.8	4.9	4.8	4.9	4.3	4.0	4.7	6.3	6.3	5.7	6.3	6.3	5.7	
48 PST-5NAS	5.2	5.3	4.7	5.7	4.7	5.7	5.3	5.0	4.0	5.7	7.0	6.0	7.0	7.0	6.0	
49 Quest	5.2	5.4	5.1	5.0	5.1	5.0	5.3	5.7	4.7	7.0	6.7	5.7	6.7	6.7	5.7	
50 Turbo	5.2	5.4	5.1	5.1	5.1	5.1	4.0	4.7	5.3	6.7	7.0	5.3	7.0	7.0	5.3	
51 Innovator	5.2	5.1	5.2	5.2	5.2	5.2	4.3	4.3	4.7	5.7	6.7	6.3	6.7	6.7	6.3	
52 SR 8550	5.2	5.2	5.0	5.3	5.0	5.3	5.7	5.3	3.0	6.0	7.0	6.3	7.0	7.0	6.3	
53 Apache III	5.1	5.2	4.7	5.4	4.7	5.4	6.0	6.0	5.3	6.0	6.7	7.0	6.7	6.7	7.0	
54 MA-127	5.1	5.1	4.7	5.5	4.7	5.5	4.3	5.7	4.7	6.0	6.0	5.0	6.0	6.0	5.0	
55 Masterpiece	5.1	5.2	5.3	5.0	5.3	5.0	6.3	6.0	5.0	6.0	7.0	6.3	7.0	7.0	6.3	
56 Dynasty	5.1	5.2	4.5	5.6	4.5	5.6	4.0	3.0	4.0	5.7	6.0	6.3	6.0	6.0	6.3	
57 CIS-TF-77	5.1	5.1	4.9	5.2	4.9	5.2	4.7	4.0	5.7	6.0	6.0	6.3	6.0	6.0	6.3	
58 PST-5BZ	5.1	5.2	4.9	5.1	4.9	5.1	4.3	4.0	3.7	6.3	6.3	5.7	6.3	6.3	5.7	
59 Silverstar	5.1	5.0	4.8	5.4	4.8	5.4	7.0	5.3	4.3	7.0	7.3	6.7	7.3	7.3	6.7	
60 K01-E03	5.1	5.6	4.3	5.3	4.3	5.3	4.3	4.3	4.7	6.3	6.3	6.0	6.3	6.3	6.0	
61 BE-1	5.1	5.4	4.6	5.2	4.6	5.2	5.3	4.3	5.3	6.3	6.7	6.3	6.7	6.7	6.3	
62 Riverside	5.1	4.9	5.0	5.2	5.0	5.2	4.7	4.0	4.3	5.0	5.3	5.3	5.3	5.3	5.3	
63 Rendition	5.0	5.8	4.1	5.1	4.1	5.1	5.3	6.7	5.3	6.3	6.7	6.0	6.7	6.7	6.0	
64 Pick ZMG	5.0	4.7	4.7	5.4	4.7	5.4	4.3	4.0	5.0	6.3	6.7	5.3	6.7	6.7	5.3	
65 JT-15	5.0	5.2	4.7	5.3	4.7	5.3	5.0	6.0	5.0	6.0	6.3	6.7	6.3	6.3	6.7	
66 UT-155	5.0	5.0	4.6	5.6	4.6	5.6	3.7	4.3	5.3	6.7	6.7	5.7	6.7	6.7	5.7	
67 Grande II	5.0	5.1	4.7	5.2	4.7	5.2	4.7	5.7	3.7	6.7	7.0	6.0	7.0	7.0	6.0	
68 PST-5LO	5.0	5.1	4.6	5.3	4.6	5.3	3.0	3.0	4.7	6.3	6.0	6.0	6.0	6.0	6.0	
69 Matador	5.0	5.5	4.6	4.9	4.6	4.9	4.3	5.0	5.3	6.7	6.3	6.7	6.3	6.3	6.7	
70 Olympic Gold	5.0	4.7	5.2	5.0	5.2	5.0	6.7	5.0	6.0	6.7	7.0	5.7	7.0	7.0	5.7	

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹				Recovery From Turf Quality ¹ 2004 Avg.	Recovery From Traffic ¹ April 2004	Recovery From Traffic May 2004	Brown Patch ² Aug. 2004	Color ³ Nov. 2004	Density ⁴ Nov. 2004	Leaf Texture ⁵ Nov. 2004
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.							
71 Signia	5.0	5.2	4.6	5.3	4.2	4.3	4.0	5.3	6.3	6.7	6.0
72 K01-E09	5.0	5.1	4.9	4.9	3.7	4.0	3.3	5.7	6.0	6.3	6.7
73 Picasso	4.9	5.0	4.8	5.1	5.8	5.7	6.0	5.0	6.3	6.7	5.7
74 PST-5KU	4.9	4.7	4.5	5.5	4.0	3.7	4.3	5.7	6.0	6.0	6.3
75 JT-12	4.9	4.9	4.7	5.2	4.8	4.3	5.3	4.3	6.7	7.3	7.0
76 Finesse II	4.9	5.0	4.4	5.2	4.7	4.3	5.0	5.0	6.3	6.3	6.0
77 Scorpion	4.9	5.0	4.6	5.0	4.5	4.3	4.7	5.7	6.3	7.0	6.3
78 Pick-OD-AFA	4.9	5.3	4.4	4.8	5.0	5.0	5.0	5.3	6.0	6.3	6.3
79 Blade Runner	4.9	4.8	4.8	5.1	5.2	5.3	5.0	5.3	6.7	6.0	5.7
80 PST-5S12	4.9	4.7	4.9	4.9	4.7	4.7	4.7	3.7	6.7	6.3	5.7
81 JT-13	4.8	5.0	4.4	5.1	5.7	5.0	6.3	5.3	5.7	5.7	6.3
82 Scorpion 2	4.8	4.7	4.4	5.3	3.5	4.0	3.0	4.0	6.3	6.3	5.3
83 Watchdog	4.8	4.9	4.6	4.8	5.0	4.7	5.3	5.3	5.3	6.7	6.0
84 Corgi	4.8	4.8	4.6	5.0	3.0	3.0	3.0	3.7	5.7	6.0	7.0
85 Pick TF H-97	4.8	4.8	5.1	4.5	3.2	2.7	3.7	5.0	4.7	4.3	3.3
86 Wolfpack	4.8	4.8	5.1	4.4	5.3	5.3	5.3	6.7	6.3	6.3	5.0
87 PST-5BAB	4.8	4.7	4.7	4.9	4.7	4.3	5.0	5.3	6.3	6.0	5.3
88 EA-163	4.8	4.9	4.9	4.6	5.5	5.7	5.3	5.7	6.3	6.0	4.7
89 Constitution	4.7	5.0	4.2	4.9	4.3	4.0	4.7	4.3	6.0	6.0	5.7
90 Barrington	4.7	4.8	4.5	4.8	4.8	5.0	4.7	4.3	5.7	5.3	6.0
91 Tuxedo	4.7	4.1	4.6	5.3	4.0	3.7	4.3	4.0	6.3	6.0	5.3
92 Matador GT	4.7	4.8	4.3	5.0	4.3	4.3	4.3	5.3	6.3	6.3	6.3
93 Serengeti	4.7	4.5	4.5	5.0	4.3	4.0	4.7	5.3	6.0	6.0	5.7
94 Gremlin	4.7	4.8	4.2	5.1	5.3	5.7	5.0	4.3	6.0	7.0	6.3
95 Tar Heel	4.7	4.5	5.0	4.5	6.5	7.0	6.0	7.0	6.7	6.7	5.7

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹			Recovery From Turf Quality ¹		Recovery From Traffic ¹		Recovery From Traffic		Brown Patch ²		Color ³		Density ⁴		Leaf Texture ⁵	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.
96 Prospect	4.6	4.8	4.5	4.6	4.6	5.0	4.3	5.7	6.3	5.7	5.7	6.3	5.7	6.3	5.7	5.7	5.7
97 MRF-27	4.6	4.9	4.1	4.8	4.8	6.5	6.3	6.7	5.0	5.3	5.7	5.3	5.7	5.7	5.3	5.3	5.3
98 MRF-211	4.6	5.0	4.3	4.9	4.9	4.7	4.7	4.7	4.7	4.7	4.7	6.0	5.7	5.7	5.3	5.3	5.3
99 NA-TDD	4.6	4.8	4.3	4.6	4.6	3.7	3.7	3.7	4.0	3.7	3.7	6.3	5.7	5.7	5.7	5.7	5.7
100 CAS-ED	4.6	4.6	4.5	4.8	4.8	4.7	4.7	4.7	6.3	4.7	4.7	6.7	6.7	6.7	6.7	5.3	5.3
101 SR 8250	4.6	4.6	4.3	4.8	4.8	5.5	5.3	5.7	5.0	5.7	5.7	6.3	6.0	6.0	5.7	5.7	5.7
102 SR 8600	4.6	4.9	4.2	4.6	4.6	5.3	5.3	5.3	5.0	5.3	5.3	5.7	6.0	6.0	6.3	6.3	6.3
103 Focus	4.5	4.8	4.0	4.8	4.8	7.0	7.3	6.7	5.0	6.7	6.7	6.0	6.0	6.0	5.7	5.7	5.7
104 MRF-210	4.5	4.6	4.1	4.8	4.8	6.7	6.3	7.0	4.7	7.0	4.7	5.7	6.7	6.7	6.3	6.3	6.3
105 Dominion	4.5	4.2	4.5	4.6	4.6	7.2	8.0	6.3	5.7	6.3	5.7	5.7	6.0	6.0	5.7	5.7	5.7
106 Tracer	4.5	4.8	4.0	4.6	4.6	4.8	4.3	5.3	4.0	5.3	4.0	5.0	5.7	5.7	6.0	6.0	6.0
107 Adam's Valley	4.5	4.6	3.9	4.9	4.9	5.7	5.3	6.0	5.3	6.0	5.3	5.0	5.3	5.3	5.0	5.0	5.0
108 Endeavor	4.5	4.6	4.2	4.6	4.6	5.3	5.3	5.3	4.0	5.3	4.0	6.3	6.0	6.0	5.7	5.7	5.7
109 JT-6	4.5	4.7	4.2	4.5	4.5	4.7	4.3	5.0	5.0	5.0	5.0	6.0	6.7	6.7	6.3	6.3	6.3
110 MA 138	4.5	4.6	4.1	4.7	4.7	4.0	3.7	4.3	5.3	4.3	5.3	6.7	6.7	6.7	5.3	5.3	5.3
111 Tahoe	4.5	5.0	3.8	4.5	4.5	4.7	4.7	4.7	4.7	4.7	4.7	6.0	6.3	6.3	5.3	5.3	5.3
112 MRF-25	4.5	4.9	4.1	4.3	4.3	4.3	4.3	4.3	5.3	4.3	5.3	5.7	6.0	6.0	5.3	5.3	5.3
113 Bravo	4.4	4.9	4.0	4.4	4.4	6.7	6.7	6.7	5.7	6.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
114 Barrera	4.4	4.8	4.1	4.3	4.3	5.8	5.3	6.3	5.3	6.3	5.3	5.3	6.0	6.0	5.3	5.3	5.3
115 MA 158	4.4	4.6	4.1	4.7	4.7	4.7	4.3	5.0	3.7	5.0	3.7	5.7	6.7	6.7	5.0	5.0	5.0
116 Ninja 2	4.4	4.3	3.8	5.1	5.1	4.7	4.0	5.3	5.0	5.3	5.0	7.0	6.3	6.3	5.3	5.3	5.3
117 PENN 1901	4.4	4.8	3.6	4.8	4.8	3.3	3.0	3.7	6.3	3.7	6.3	5.3	5.7	5.7	6.3	6.3	6.3
118 Barlexas II	4.4	4.8	3.9	4.4	4.4	4.8	5.3	4.3	5.0	4.3	5.0	5.3	6.0	6.0	6.7	6.7	6.7
119 Jaguar 3	4.4	4.4	4.2	4.5	4.5	6.5	6.3	6.7	5.7	6.7	5.7	6.7	6.3	6.3	6.0	6.0	6.0
120 JT-9	4.4	4.6	3.7	4.8	4.8	3.8	3.3	4.3	4.0	4.3	4.0	5.7	6.7	6.7	6.7	6.7	6.7

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹			Recovery From Turf Quality ¹		Recovery From Traffic ¹		Recovery From Traffic		Brown Patch ²		Color ³		Density ⁴		Leaf Texture ⁵	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.	2004 Avg.
121	Covenant	4.3	4.7	3.9	4.5	3.2	3.0	3.3	4.3	4.3	6.3	6.3	6.7	6.3			
122	Rebel Sentry	4.3	5.0	3.7	4.4	5.0	5.3	4.7	3.7	3.7	4.7	4.7	5.3	4.3			
123	Millennium	4.3	4.7	3.7	4.5	6.8	7.3	6.3	5.3	5.3	6.7	6.3	6.3	6.0			
124	ATF 586	4.3	4.4	4.2	4.4	4.7	4.3	5.0	6.0	6.0	5.3	6.3	6.3	5.7			
125	Elisa	4.3	4.5	4.4	3.9	7.2	7.7	6.7	5.0	5.0	6.3	6.3	6.3	5.7			
126	Stonewall	4.3	4.1	4.0	4.7	4.0	3.7	4.3	4.7	4.7	5.7	6.3	6.3	6.3			
127	Wyatt	4.3	4.6	4.1	4.2	6.0	6.0	6.0	5.7	5.7	6.0	6.0	6.0	6.0			
128	Kitty Hawk 2000	4.2	4.6	3.7	4.5	3.2	3.0	3.3	5.3	5.3	5.7	6.0	6.0	6.0			
129	ATF 806	4.2	4.4	3.8	4.5	3.5	3.0	4.0	3.3	3.3	4.7	5.3	5.3	4.3			
130	Legitimate	4.2	4.1	4.0	4.5	4.2	4.3	4.0	5.0	5.0	5.3	5.3	5.3	4.3			
131	DP 50-9226	4.2	4.3	3.9	4.4	6.2	5.7	6.7	4.0	4.0	5.7	6.3	6.3	5.3			
132	Expedition	4.2	4.4	3.8	4.5	8.2	8.0	8.3	6.0	6.0	6.3	6.7	6.7	6.7			
133	MRF-28	4.2	4.4	3.8	4.2	5.0	5.7	4.3	6.0	6.0	5.0	5.7	5.7	5.7			
134	MRF-29	4.2	4.5	3.9	4.2	5.2	5.0	5.3	5.0	5.0	5.3	5.7	5.7	5.7			
135	Barlexas	4.1	4.5	4.0	3.9	5.8	5.3	6.3	5.3	5.3	5.3	4.7	4.7	6.0			
136	Tomahawk GT	4.1	4.4	4.0	4.1	6.8	6.7	7.0	4.3	4.3	5.3	5.3	5.3	4.7			
137	Pure Gold	4.1	4.3	3.7	4.5	3.8	3.7	4.0	6.0	6.0	5.0	5.0	5.7	6.0			
138	TF66	4.1	4.5	3.5	4.3	6.0	6.0	6.0	5.3	5.3	6.0	6.0	5.7	6.0			
139	BAR Fa 1003	4.1	4.3	3.9	4.2	4.2	4.3	4.0	5.3	5.3	6.3	6.3	6.0	5.7			
140	MRF-26	4.1	4.4	3.5	4.4	5.2	5.7	4.7	4.3	4.3	5.3	5.3	6.3	5.0			
141	Tulsa II	4.1	4.0	4.0	4.2	7.5	8.0	7.0	5.3	5.3	5.3	6.0	6.0	5.7			
142	Tempest	4.1	4.2	4.0	3.9	6.5	7.3	5.7	6.0	6.0	4.7	4.7	5.0	4.7			
143	Titan Ltd	4.0	4.6	3.6	3.8	7.0	6.7	7.3	4.3	4.3	5.3	5.3	5.3	6.0			
144	Coyote	3.9	4.2	3.5	4.0	6.8	7.3	6.3	6.0	6.0	5.0	5.0	5.7	5.3			
145	Trooper	3.9	4.1	3.4	4.3	4.5	4.0	5.0	5.3	5.3	7.3	7.3	6.7	6.0			

(Continued)

Table 3 (continued).

Cultivar or Selection	Turf Quality ¹			Recovery Turf Quality ¹ 2004 Avg.	Recovery From Traffic ¹ April 2004	Recovery From Traffic May 2004	Brown Patch ² Aug. 2004	Color ³ Nov. 2004	Density ⁴ Nov. 2004	Leaf Texture ⁵ Nov. 2004
	2002-2004 Avg.	2002 Avg.	2003 Avg.							
146 Regiment II	3.9	4.2	3.5	4.2	3.7	4.0	4.7	5.0	5.0	4.7
147 Laramie	3.9	4.2	3.6	3.9	4.7	4.7	5.0	5.3	5.3	5.0
148 Lancer E	3.8	4.0	3.3	4.2	4.7	4.3	5.0	5.7	5.7	5.7
149 T991	3.8	4.3	3.5	3.7	3.2	3.0	4.7	4.3	4.3	4.7
150 ATF 704	3.8	3.7	3.3	4.3	4.2	4.7	4.0	6.0	5.7	5.0
151 DLF-J210	3.7	3.8	3.0	4.3	5.8	6.0	5.3	5.7	6.0	4.3
152 ATF 707	3.6	4.2	3.4	3.4	4.0	4.0	3.7	5.0	5.3	4.0
153 Southern Choice	3.6	3.9	3.3	3.6	6.2	6.0	4.3	5.0	5.0	4.7
154 Stetson	3.6	3.5	3.4	3.9	5.8	5.0	4.7	5.7	5.0	5.0
155 Falcon II	3.6	3.6	3.2	4.1	6.3	6.3	5.3	6.0	5.7	5.0
156 BAR FA 1CR 7	3.6	4.5	3.2	3.3	2.0	2.3	4.3	6.3	5.0	4.7
157 Daytona	3.5	4.0	3.2	3.4	5.3	5.3	5.0	5.3	4.7	4.3
158 Floridian	3.4	3.7	3.1	3.3	7.5	7.0	5.3	5.3	5.3	4.7
159 GO-SIU2	3.4	3.4	2.8	3.9	4.2	4.0	5.3	5.0	5.7	5.0
160 South Paw	3.4	3.7	3.1	3.4	5.5	5.0	5.7	4.0	5.3	5.3
161 JTTF-2000	3.4	3.8	2.8	3.5	3.7	4.0	4.3	5.3	5.0	5.3
162 GO-RD4	3.3	3.5	3.0	3.4	6.7	6.3	5.0	4.7	5.0	4.7
163 DP 50-9082	3.3	3.4	3.1	3.5	5.3	5.7	4.0	5.7	6.0	5.7
164 Bonsai	3.3	3.6	3.2	3.1	3.0	3.7	5.0	3.7	4.3	4.3
165 Kentucky-31 E+	1.2	1.2	1.2	1.1	3.7	3.7	5.0	2.0	1.3	1.3

(Continued)

Table 3 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----		Recovery Turf Quality ¹	Recovery From Traffic ¹	Recovery From Traffic May 2004	Brown Patch ² Aug. 2004	Color ³ Nov. 2004	Density ⁴ Nov. 2004	Leaf Texture ⁵ Nov. 2004	
	2002-2004 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2004	2004	2004	2004	2004	
	0.7	0.7	1.0	0.8	2.0	2.3	1.9	1.5	1.4	1.3
LSD at 5% =										

¹9 = best turf quality
²9 = least disease
³9 = darkest green color
⁴9 = best turf density
⁵9 = finest leaf texture

Table 4. Performance of tall fescue cultivars and selections in a turf trial established in September 2002 at Adelphia, NJ.

Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ²	Brown Patch	Brown Patch
	2003-2004 Avg.	2003 Avg.	2004 Avg.	2004 Avg.	Aug. 3 2004	Aug. 21 2004
1 ATL comp	6.8	6.9	6.7	7.0	6.7	7.3
2 ATM comp	6.8	6.7	6.9	7.3	6.7	8.0
3 Falcon IV	6.6	6.5	6.7	6.5	6.3	6.7
4 ATN comp	6.6	6.5	6.6	6.8	6.0	7.7
5 WAM comp	6.5	6.3	6.6	7.0	7.0	7.0
6 ATE comp	6.5	6.1	6.8	7.7	7.3	8.0
7 CIS-TF-71	6.3	6.7	5.8	6.3	6.7	6.0
8 Justice	6.2	6.6	5.7	5.8	5.7	6.0
9 ATC comp	6.1	6.1	6.2	6.5	6.7	6.3
10 Firebird	6.1	6.5	5.7	3.5	3.7	3.3
11 Avenger	6.1	6.2	6.0	6.2	6.7	5.7
12 DaVinci	6.0	6.0	5.9	5.0	4.7	5.3
13 CIS-TF-60	5.9	6.2	5.7	3.8	4.7	3.0
14 CIS-TF-72	5.9	6.3	5.6	4.2	4.0	4.3
15 Cayenne	5.9	6.0	5.8	6.3	7.3	5.3
16 WAE comp	5.9	5.6	6.1	6.2	6.7	5.7
17 CIS-TF-80	5.8	5.8	5.8	6.2	7.0	5.3
18 02-CFA	5.8	5.8	5.8	4.8	5.3	4.3
19 02-D FA	5.8	5.9	5.6	5.2	5.7	4.7
20 02-E FA	5.7	5.9	5.6	6.2	6.0	6.3
21 Biltmore	5.7	5.6	5.8	5.2	5.0	5.3
22 Coshise III	5.7	6.1	5.2	5.5	5.3	5.7
23 CIS-TF-77	5.7	5.7	5.6	5.7	6.0	5.3
24 FA14-AB-02	5.7	5.8	5.5	6.2	5.3	7.0
25 Titanium	5.6	5.5	5.6	5.3	6.0	4.7
26 02-I FA	5.6	6.1	5.0	4.3	4.0	4.7
27 Guardian-21	5.6	5.6	5.5	5.3	5.3	5.3
28 SRX 8DDMPP	5.5	5.9	5.2	4.7	5.7	3.7
29 Hounddog 6	5.5	6.2	4.8	3.7	4.0	3.3
30 CIS-TF-61	5.5	5.7	5.3	5.2	5.3	5.0
31 CIS-TF-93	5.5	5.3	5.7	6.0	6.3	5.7
32 Raptor	5.5	6.0	5.0	4.5	4.7	4.3
33 ATF-903	5.4	5.2	5.6	5.2	5.3	5.0
34 Constitution	5.4	5.5	5.3	5.5	6.3	4.7
35 02-B FA	5.4	5.8	4.9	5.0	5.0	5.0

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2004 Avg.	Brown Patch Aug. 3 2004	Brown Patch Aug. 21 2004
		2003- 2004 Avg.	2003 Avg.	2004 Avg.			
36	02-F FA	5.4	5.6	5.1	4.7	5.0	4.3
37	FA 34-4-02	5.4	5.4	5.3	4.7	4.7	4.7
38	Grande II	5.4	5.3	5.4	5.3	5.0	5.7
39	ATF-896	5.3	4.8	5.8	5.0	4.7	5.3
40	ATF-909	5.3	5.3	5.3	4.8	5.0	4.7
41	Tuxedo	5.3	5.4	5.2	4.2	4.3	4.0
42	CIS-TF-63	5.3	5.0	5.5	5.7	5.0	6.3
43	CIS-TF-79	5.3	5.0	5.5	5.5	6.0	5.0
44	Bingo	5.2	5.5	5.0	4.0	4.3	3.7
45	Pick TF B-97	5.2	5.1	5.4	5.3	5.3	5.3
46	2nd Millennium	5.2	5.3	5.1	5.2	5.3	5.0
47	FA 34-B-02	5.2	5.2	5.2	5.7	6.0	5.3
48	PENN 1901	5.2	5.4	5.0	5.0	5.3	4.7
49	02-G FA	5.2	5.3	5.1	5.2	5.7	4.7
50	ATF-805	5.2	5.3	5.1	3.8	4.0	3.7
51	Rebel Exceeda	5.2	5.6	4.8	3.8	4.0	3.7
52	Corgi	5.2	5.3	5.0	3.8	4.3	3.3
53	Forte	5.2	5.6	4.7	3.8	4.3	3.3
54	Five Point	5.2	5.4	4.9	4.3	5.0	3.7
55	02-H FA	5.1	5.0	5.3	4.5	5.7	3.3
56	SR 8250	5.1	5.6	4.7	4.3	5.0	3.7
57	SRX 8FFT	5.1	5.5	4.8	4.7	5.3	4.0
58	Masterpiece	5.1	5.0	5.2	5.3	5.3	5.3
59	ATF-907	5.1	4.8	5.4	5.5	5.7	5.3
60	SR 8550	5.1	5.6	4.7	4.5	5.0	4.0
61	ATF-901	5.1	5.2	5.0	4.0	4.7	3.3
62	ATF-897	5.1	5.0	5.2	4.7	5.3	4.0
63	Finesse II	5.1	5.5	4.7	4.2	4.3	4.0
64	Gazelle	5.1	5.5	4.7	4.3	4.7	4.0
65	TF H-97	5.1	5.4	4.8	4.3	4.7	4.0
66	Scorpien	5.1	4.9	5.2	5.2	5.7	4.7
67	Blade Runner	5.1	5.0	5.1	5.7	6.3	5.0
68	Rendition	5.1	5.1	5.0	3.8	4.3	3.3
69	ATF-906	5.0	4.8	5.2	4.3	5.0	3.7
70	Finelawn Elite	5.0	5.2	4.9	4.8	5.0	4.7

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2004 Avg.	Brown Patch Aug. 3 2004	Brown Patch Aug. 21 2004
		2003- 2004 Avg.	2003 Avg.	2004 Avg.			
71	ATF-898	5.0	4.8	5.3	5.5	6.0	5.0
72	ATF-899	5.0	5.1	4.9	5.5	6.0	5.0
73	JT-3	5.0	5.4	4.7	3.8	3.7	4.0
74	Pick 00-AFA	5.0	5.2	4.8	5.5	6.3	4.7
75	ATF-902	5.0	4.8	5.1	6.0	6.3	5.7
76	ATF-908	5.0	4.7	5.3	5.2	5.0	5.3
77	Crossfire II	4.9	4.7	5.2	5.7	6.0	5.3
78	JT-4	4.9	5.1	4.7	4.0	4.0	4.0
79	Signia	4.9	5.4	4.5	4.0	4.3	3.7
80	JT-2	4.9	5.1	4.7	3.7	4.0	3.3
81	ATF-905	4.9	4.9	4.9	5.3	5.3	5.3
82	Pick TF DC-97-98	4.9	4.7	5.0	4.8	5.3	4.3
83	SRX 8RH2	4.8	4.9	4.7	5.0	4.7	5.3
84	Shenandoah II	4.8	4.7	4.9	4.8	5.0	4.7
85	Matador	4.8	5.0	4.5	3.8	3.7	4.0
86	TF E-97	4.8	4.8	4.7	4.7	5.0	4.3
87	Focus	4.7	5.1	4.3	4.5	4.3	4.7
88	Rebel Sentry	4.7	5.0	4.5	3.8	4.0	3.7
89	00-C FA	4.7	4.7	4.6	4.7	5.3	4.0
90	Millennium	4.7	4.6	4.7	4.0	4.7	3.3
91	Greystone	4.7	4.6	4.7	3.7	5.0	2.3
92	Ninja 2	4.6	4.7	4.5	3.7	4.7	2.7
93	Durana	4.6	4.7	4.5	4.3	5.0	3.7
94	CIS-TF-92	4.6	4.5	4.6	5.2	5.7	4.7
95	Pick MT3	4.6	4.7	4.5	4.2	4.3	4.0
96	ATF-904	4.6	4.6	4.5	4.8	5.3	4.3
97	Picasso	4.6	4.6	4.5	4.5	5.0	4.0
98	Prospect	4.5	5.2	3.8	3.8	4.3	3.3
99	Jaguar 3	4.4	4.0	4.7	5.7	6.0	5.3
100	DLF-209	4.3	4.4	4.3	4.7	5.3	4.0
101	Crewcut II	4.3	4.2	4.4	4.5	4.7	4.3
102	Arizona	4.3	4.4	4.2	4.7	5.0	4.3
103	Expedition	4.3	4.4	4.2	3.3	3.3	3.3
104	ATF-900	4.3	4.2	4.3	4.5	4.7	4.3
105	TTF-O2AA	4.2	3.9	4.5	5.3	5.3	5.3

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2004 Avg.	Brown Patch Aug. 3 2004	Brown Patch Aug. 21 2004
		2003- 2004 Avg.	2003 Avg.	2004 Avg.			
106	DLF-210	4.2	4.4	4.0	4.2	4.7	3.7
107	Bandana	4.1	4.3	3.9	3.7	4.0	3.3
108	Bonsai 2000	4.1	3.9	4.3	3.8	4.3	3.3
109	Virture	4.0	4.0	4.0	4.3	5.0	3.7
110	Tulsa	4.0	3.8	4.2	4.7	5.0	4.3
111	Finelawn Petite	4.0	4.2	3.8	4.7	5.3	4.0
112	SRX 8RH1	4.0	3.8	4.2	3.7	4.7	2.7
113	Oncue	3.9	3.8	4.0	5.3	6.0	4.7
114	Titan LTD	3.9	4.0	3.8	3.8	4.0	3.7
115	Watchdog	3.9	3.6	4.2	4.5	5.3	3.7
116	Tulsa II	3.9	3.8	3.9	3.7	4.7	2.7
117	Regiment	3.7	3.9	3.5	2.8	3.7	2.0
118	Duster	3.7	4.0	3.4	2.5	3.0	2.0
119	Bonanza II	3.7	3.6	3.8	4.5	5.0	4.0
120	Grande	3.7	3.6	3.7	4.3	4.7	4.0
121	Mini-Mustang	3.6	3.4	3.7	3.8	4.7	3.0
122	Mustang II	3.2	3.1	3.3	4.7	5.0	4.3
123	Landmark	1.5	1.2	1.7	4.8	5.0	4.7
124	Jesup Plus	1.3	1.1	1.4	4.8	5.7	4.0
125	Kentucky-31	1.1	1.1	1.1	4.3	5.0	3.7
	LSD at 5% =	0.6	0.8	0.6	1.4	1.9	1.6

¹9 = best turf quality²9 = least disease

Table 5. Performance of tall fescue cultivars and selections in a turf trial established in September 2003 at Adelphia, NJ.

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
1	ATO	6.4	7.3	6.8	7.3	6.3
2	Hounddog 6	6.3	7.3	5.0	5.3	4.7
3	Falcon IV	6.2	7.0	6.0	6.3	5.7
4	ATF-1041	6.1	6.3	4.7	5.0	4.3
5	ATF-1093	6.1	6.7	4.7	4.7	4.7
6	ATF-1092	6.1	6.3	3.8	4.3	3.3
7	IS-TF-94	6.0	6.7	4.8	5.0	4.7
8	Six Point	6.0	7.3	5.8	6.3	5.3
9	ATF-1089	6.0	7.0	3.8	5.3	2.3
10	ATF-1109	5.9	7.7	5.2	5.3	5.0
11	MST	5.9	7.0	5.5	5.0	6.0
12	ATF-1088	5.9	6.3	4.5	5.0	4.0
13	Justice	5.9	7.7	6.2	6.3	6.0
14	TF 10	5.9	6.3	4.8	5.7	4.0
15	IS-TF-80	5.9	6.0	6.5	6.3	6.7
16	ATF-1038	5.8	5.0	5.2	5.0	5.3
17	TF 8	5.8	6.7	5.5	5.0	6.0
18	EA 185	5.8	7.3	5.7	6.3	5.0
19	PSW# 206	5.8	6.0	4.5	4.3	4.7
20	Cortez II	5.7	5.7	5.3	6.0	4.7
21	ATF-1096	5.7	6.3	5.3	6.3	4.3
22	ATF-1036	5.7	6.3	3.7	4.7	2.7
23	Padre	5.7	6.3	5.2	5.7	4.7
24	PSW# 204	5.7	6.0	4.3	5.0	3.7
25	ATF-1040	5.7	6.0	4.5	4.3	4.7
26	ATF-1067	5.7	6.7	5.0	5.7	4.3
27	ATF-1080	5.7	6.0	4.7	5.0	4.3
28	ATF-1095	5.7	7.0	5.7	6.3	5.0
29	TF 7	5.7	7.0	6.0	6.0	6.0
30	SRX CARH2	5.7	6.7	5.0	5.7	4.3
31	Cayenne	5.7	6.7	4.5	5.3	3.7
32	Guardian-21	5.7	7.3	5.7	6.0	5.3
33	ATF-929	5.6	6.3	4.0	5.0	3.0
34	ATF-1107	5.6	7.0	5.5	5.7	5.3
35	ATF-1108	5.6	6.3	4.7	4.7	4.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
36	ATF-1111	5.6	7.0	4.7	4.7	4.7
37	BAR Fa 1CR7	5.6	8.0	4.5	5.3	3.7
38	IS-TF-93	5.6	6.0	4.8	5.3	4.3
39	TF 16	5.6	6.7	4.2	4.0	4.3
40	Raptor	5.6	7.0	4.2	4.3	4.0
41	ATF-1110	5.6	7.0	4.8	5.0	4.7
42	2nd Millennium	5.6	8.3	5.0	5.0	5.0
43	SRX 8FFT	5.5	7.0	5.0	5.7	4.3
44	ATF-1100	5.5	7.7	4.2	5.0	3.3
45	SRX CABE3	5.5	6.3	5.0	5.7	4.3
46	SRX CAFT2	5.5	6.7	5.3	5.7	5.0
47	Bingo	5.5	7.3	4.8	6.0	3.7
48	Finelawn Elite	5.5	7.3	4.5	4.7	4.3
49	PSW# 212	5.5	6.0	6.0	6.0	6.0
50	ATF-1034	5.5	6.0	4.7	5.7	3.7
51	ATF-1097	5.5	7.0	4.8	5.0	4.7
52	ATF-1105	5.5	6.7	4.5	4.7	4.3
53	BAR Fa 1005	5.5	7.7	6.3	6.0	6.7
54	SRX CABE4	5.5	6.3	4.2	4.7	3.7
55	SRX CABE5	5.5	6.7	4.7	5.7	3.7
56	SRX CA861	5.5	7.0	4.5	5.3	3.7
57	PSW# 202	5.5	6.3	5.3	5.7	5.0
58	TF 2	5.4	6.0	4.8	5.3	4.3
59	PSW# 207	5.4	4.3	4.5	5.3	3.7
60	ATF-1090	5.4	6.3	5.5	6.3	4.7
61	TF 18	5.4	6.0	4.7	4.7	4.7
62	TF FD-97	5.4	7.3	4.7	5.7	3.7
63	ATF-1070	5.4	5.7	4.3	5.0	3.7
64	ATF-1046	5.3	5.0	4.3	4.0	4.7
65	Scorpion 2	5.3	6.7	5.5	6.3	4.7
66	Gremlin	5.3	7.0	5.3	5.3	5.3
67	DaVinci	5.3	6.3	5.8	6.0	5.7
68	ATF-1042	5.3	7.0	3.2	4.0	2.3
69	Stonewall	5.3	7.7	4.7	5.0	4.3
70	Forte	5.3	7.3	5.2	5.7	4.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
71	Blackwatch	5.3	7.7	4.8	5.3	4.3
72	TF Z-96	5.3	7.3	4.7	5.3	4.0
73	ATF-1112	5.3	8.0	5.7	5.0	6.3
74	Rendition	5.3	7.0	4.7	4.3	5.0
75	SRX CADD	5.3	7.7	4.8	4.3	5.3
76	Finesse II	5.2	7.0	4.8	5.7	4.0
77	PSW# 203	5.2	6.0	5.2	6.0	4.3
78	PSW# 208	5.2	5.0	3.2	4.0	2.3
79	PSW# 211	5.2	7.7	4.8	6.0	3.7
80	ATF-1035	5.2	5.7	4.2	4.3	4.0
81	ATF-1167	5.2	6.7	5.0	5.0	5.0
82	TF 9	5.2	6.0	5.0	5.3	4.7
83	SRX CAV91	5.2	6.0	4.7	5.3	4.0
84	IS-TF-79 E-	5.2	7.3	5.3	5.7	5.0
85	Magellan	5.2	6.7	4.8	4.7	5.0
86	Riverside	5.2	7.3	4.2	5.0	3.3
87	PSW# 201	5.2	6.7	4.7	4.7	4.7
88	SR 8550	5.2	6.3	4.8	5.3	4.3
89	ATF-804	5.1	6.3	3.8	4.3	3.3
90	ATF-1066	5.1	7.0	3.7	5.3	2.0
91	ATF-1106	5.1	7.3	6.3	6.0	6.7
92	PENN 1901	5.1	7.3	5.5	6.0	5.0
93	TF 3	5.1	6.0	3.7	3.7	3.7
94	MA 184	5.1	6.7	4.3	4.7	4.0
95	Biltmore	5.1	5.0	5.8	6.3	5.3
96	00-BFA	5.1	7.3	4.5	5.0	4.0
97	ATF-1064	5.1	6.7	3.8	4.3	3.3
98	ATF-1073	5.1	7.0	5.8	6.3	5.3
99	ATF-1083	5.1	7.3	4.7	5.0	4.3
100	JT-6	5.1	7.3	5.0	5.3	4.7
101	TF 17	5.1	7.0	4.5	4.7	4.3
102	ATF-1044	5.1	7.3	4.0	4.0	4.0
103	ATF-1091	5.1	7.0	5.2	5.3	5.0
104	TF 4	5.0	6.3	3.5	4.0	3.0
105	ATF-1068	5.0	7.7	5.2	6.3	4.0

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
106	ATF-1104	5.0	6.3	4.2	4.3	4.0
107	Signia	5.0	7.7	4.3	4.7	4.0
108	Pick ZMG	5.0	7.0	5.0	4.7	5.3
109	PSW# 200	5.0	5.7	4.2	4.7	3.7
110	ATF-894	4.9	5.7	4.3	5.0	3.7
111	ATF-1039	4.9	7.0	4.0	4.0	4.0
112	Rebel Sentry	4.9	7.3	4.2	4.7	3.7
113	Rebel Exeda	4.9	7.3	5.0	5.0	5.0
114	PSW# 209	4.9	7.0	4.8	4.7	5.0
115	FA DC-97-98	4.9	7.3	4.2	4.3	4.0
116	ATF-866	4.9	5.3	4.0	4.7	3.3
117	ATF-1043	4.9	6.3	3.0	3.3	2.7
118	ATF-1082	4.9	6.7	3.5	4.0	3.0
119	ATF-1101	4.9	6.7	4.7	5.0	4.3
120	ATF-1168	4.9	5.3	3.5	3.7	3.3
121	Quest	4.9	7.3	5.0	5.7	4.3
122	SR 8250	4.9	7.7	3.8	4.7	3.0
123	SR 8600	4.9	7.3	4.5	4.3	4.7
124	Scorpien	4.9	7.3	5.2	5.0	5.3
125	PSW# 213	4.9	6.3	4.8	5.7	4.0
126	TF BA-97	4.9	7.0	4.7	5.0	4.3
127	BarLexas II	4.9	7.3	3.5	4.3	2.7
128	PSW# 205	4.9	6.0	4.3	4.7	4.0
129	ATF-1094	4.8	7.3	4.0	5.0	3.0
130	Focus	4.8	7.0	4.2	4.0	4.3
131	Barrington	4.8	7.0	4.7	4.3	5.0
132	Barrera	4.8	6.7	4.8	4.3	5.3
133	Tracer	4.8	7.0	4.3	4.7	4.0
134	PSW# 210	4.8	6.7	4.2	4.3	4.0
135	AZ1MP-3B	4.8	6.7	5.3	6.0	4.7
136	ATF-1062	4.8	7.0	3.3	3.7	3.0
137	SRX CARH1	4.8	6.7	4.8	5.0	4.7
138	Pick MT3	4.8	6.3	4.8	5.0	4.7
139	SRX CABE2	4.8	7.3	4.7	5.0	4.3
140	SRX CACC2	4.8	7.3	4.5	5.3	3.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
141	Shenandoah II	4.8	7.3	4.5	5.0	4.0
142	Coronado	4.8	8.0	2.7	3.3	2.0
143	ATF-1069	4.7	6.7	5.0	5.3	4.7
144	ATF-1072	4.7	7.3	5.5	6.0	5.0
145	ATF-1075	4.7	7.7	5.0	5.7	4.3
146	ATF-1081	4.7	7.0	4.0	4.0	4.0
147	ATF-1098	4.7	7.7	5.3	6.0	4.7
148	TF 13	4.7	7.0	4.8	5.0	4.7
149	Grande II	4.7	8.0	4.3	4.0	4.7
150	ATF-1074	4.7	7.0	4.5	5.7	3.3
151	Five Point	4.7	7.0	3.8	4.3	3.3
152	Rembrandt	4.7	7.0	4.5	4.7	4.3
153	ATF-1084	4.7	5.7	4.0	4.7	3.3
154	ATF-1087	4.7	6.0	3.7	4.0	3.3
155	Millennium	4.7	8.0	5.5	6.3	4.7
156	TF 5	4.7	5.3	4.3	5.0	3.7
157	ATF-1033	4.6	4.7	3.5	4.3	2.7
158	ATF-1076	4.6	8.3	3.8	5.0	2.7
159	TF 6	4.6	5.0	5.0	4.7	5.3
160	SRX CAFT1	4.6	6.3	5.3	5.3	5.3
161	AZ1MP-3A	4.6	6.3	4.8	5.7	4.0
162	ATF-1086	4.6	6.7	5.2	5.7	4.7
163	ATF-1102	4.6	6.3	5.2	5.3	5.0
164	ATF-1045	4.6	6.7	4.0	4.3	3.7
165	SRX RH2	4.6	6.7	4.2	5.0	3.3
166	ATF-1078	4.5	7.3	3.5	4.0	3.0
167	ATF-1085	4.5	5.7	4.0	5.0	3.0
168	Tulsa II	4.5	8.3	3.5	4.3	2.7
169	Renegade II	4.5	6.7	3.8	4.0	3.7
170	ATF-1077	4.5	7.0	3.8	4.3	3.3
171	ATF-1079	4.5	6.3	4.3	4.3	4.3
172	ATF-1099	4.5	7.0	3.8	4.7	3.0
173	Titanium	4.5	7.0	5.7	5.7	5.7
174	ATF-1071	4.4	7.3	4.2	5.0	3.3
175	Gazelle	4.4	8.0	2.7	3.0	2.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2004	Establishment ² Sept. 2003	Brown Patch ³ 2004 Avg.	Brown Patch Aug. 5 2004	Brown Patch Aug. 21 2004
176	DTF	4.4	7.3	4.0	4.3	3.7
177	ATF-1103	4.4	7.0	4.3	5.0	3.7
178	GreyStone	4.4	7.3	4.5	5.7	3.3
179	Dynasty	4.4	5.0	4.0	4.0	4.0
180	SRX OHTF	4.3	8.0	3.0	4.0	2.0
181	Crossfire II	4.3	6.7	5.0	5.7	4.3
182	Watchdog	4.3	7.3	4.3	4.3	4.3
183	BAR Fa 1003	4.2	7.7	4.8	4.7	5.0
184	Arizona	4.2	4.3	4.2	4.7	3.7
185	ATF-1037	4.1	6.0	4.5	4.7	4.3
186	SRX RHI	4.1	8.7	4.8	5.0	4.7
187	Crewcut II	4.1	3.0	4.7	4.7	4.7
188	SRX CABE1	4.1	7.0	4.2	5.0	3.3
189	Falcon III	3.8	7.7	4.5	5.0	4.0
190	BAR Fa 1020	3.7	7.7	4.2	4.3	4.0
191	Tulsa	3.7	4.0	4.5	4.7	4.3
192	Jaguar 3	3.6	8.0	4.5	4.7	4.3
193	BAR Fa 1002	3.5	4.7	4.0	4.3	3.7
194	Bonanza II	3.5	7.7	3.8	3.7	4.0
195	Titan Ltd	3.4	6.3	4.5	4.7	4.3
196	Grande	3.3	9.0	4.0	4.0	4.0
197	Pick BWI-02	3.3	8.3	3.0	3.3	2.7
198	Regiment	2.8	3.7	3.3	3.7	3.0
199	South East	1.1	9.0	3.7	3.7	3.7
200	Kentucky-31	1.1	9.0	4.0	4.0	4.0
	LSD at 5% =	0.6	1.1	1.4	1.7	1.6

¹9 = best turf quality²9 = quickest establishment³9 = least disease

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

	2001		2002		2003		2004	
	N ¹	Ht ²	N	Ht	N	Ht	N	Ht
Table 1 (2000 Adelphia)	2.8	1.5	3.0	1.5	3.0	1.5	1.5	1.5
Table 2 (2001 Adelphia)			2.0	1.5	2.75	1.5	2.25	1.5
Table 3 (2001 North Brunswick)			4.1	1.5	1.25	1.5	1.73	1.5
Table 4 (2002 Adelphia)					3.0	1.5	3.0	1.5
Table 5 (2003 Adelphia)							3.75	1.5

¹ Annual N applied (lb/1000 ft²)

² Mowing height in inches