

2005 RUTGERS Turfgrass Proceedings



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The Rutgers Turfgrass Proceedings is published yearly by the Rutgers Center for Turfgrass Science, Rutgers Cooperative Extension, and the New Jersey Agricultural Experiment Station, Cook College, 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 2005 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
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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 that is widely used as both a forage and turfgrass in much of the United States. Over the past 25 years, tall fescue has become more popular due to significant improvements made in overall turf quality, which includes a darker color, finer texture, lower growth, denser canopy, and greater disease resistance. Tall fescue has a deep rooting system and performs well under low soil moisture. This species is also adapted to a wide range of soil types and does not require as many fertilizer inputs as most other cool-season grasses.

The first introduction of tall fescue germplasm into the United States occurred in the 19th century. The species was first utilized as a forage grass, but early cultivars such as Kentucky-31 and Alta, introduced in the early 1940s, were also used as turfgrasses. 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 in turf settings. Rebel tall fescue, a landmark cultivar released in 1980, was the first turf-type cultivar with a finer leaf texture, higher shoot density, darker green color, and lower growth habit. Although many cultivars with enhanced characteristics have since been developed, 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 a darker green color, lower growth habit, higher shoot density, finer leaf texture, and increased resistance to disease. Tall fescue can still be used in low maintenance situations such as roadsides, industrial sites, and construction sites to prevent soil erosion.

Current research at the New Jersey Experiment Station includes the study of beneficial turfgrass endophytes in tall fescue. Endophytic fungi can live in leaf sheath and stem tissues of tall fescue plants and have been shown to enhance drought tolerance and insect resistance. The development of cultivars that contain endophytes may lead to many more uses for tall fescue as a turfgrass, and plant breeders continue to look for new sources of these beneficial fungi.

In other research efforts, studies are underway to enhance the production of rhizomes in tall fescue. Tall fescue is a bunch-type turfgrass that may decrease in density over time. Rhizomes store carbohydrates that can be used to shorten recovery time when the turfgrass is damaged by traffic. Since rhizomes are underground stems, they are protected from temperature extremes and wear, 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 an increase in the use of tall fescue on home lawns and athletic fields.

Development of tall fescues with increased resistance to diseases, specifically brown patch, has been an important objective in the Rutgers breeding program. Each year, mowed-spaced plots and mowed turf trials are inoculated with the fungus that causes brown patch, *Rhizoctonia solani*. This provides uniform infection across the trials and improves the ability to identify resistant germplasm. From these

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trials, plants that exhibit excellent resistance to brown patch are selected for crossing blocks to develop cultivars with improved resistance to this disease.

PROCEDURES

Five tall fescue tests were established in New Jersey between 2001 and 2004. A single test was established each year at Adelphia (Tables 1, 3, 4, and 5) and in 2001 at North Brunswick (Table 2). 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). For the test at North Brunswick, 1.4 oz of seed (3.6 lb/1000 ft²) was seeded in August into 4 x 6 ft plots. All tests were arranged in a randomized complete block design with three replications. Each plot had a 6.0-inch unseeded border to limit contamination. Broadleaf weeds were controlled with spring or fall applications of 2,4-D, Sterling, and MCPP. Dimension was applied in the spring to control annual grassy weeds.

Single applications of fertilizer did not exceed 1.0 lb nitrogen/1000 ft². 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 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 damage due to insects and diseases). Other ratings such as establishment, spring green-up, color, density, leaf texture, and susceptibility to specific diseases 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 2004 tall fescue test at Adelphia (Table 5) was inoculated with the causal agent of brown patch, *R. solani*, in July at a rate of 0.2 g inoculum/m². The

2001, 2002, and 2003 tests (Tables 1 to 4), inoculated in previous years, had uniform outbreaks of brown patch, so additional inoculations were not required.

RESULTS AND DISCUSSION

Results of the tall fescue tests (Tables 1 through 5) 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, uniformity, finer leaf texture, lower growth habit, improved mowing quality, and less damage due to insects. Tables 1 and 2 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, which were developed as improved forage cultivars, consistently rank near the bottom of the tests when evaluated by turf quality. In 2005 trials, cultivars such as Falcon IV, Justice, DaVinci, Firenza, and Avenger performed consistently well. In many cases, a cultivar developed in 2001 may rank very high in the turf trial established that year, but the same cultivar may rank lower compared to more recently-developed entries in a test seeded just 2 or 3 years later. This is due to the rapid rate at 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 cool-humid environments is brown patch. Currently, there are no turf-type tall fescue cultivars with complete resistance to brown patch. Brown patch is strongly affected by the environment, and if appropriate environmental conditions exist, all available cultivars will sustain some damage from this disease. A dense turf produces a microenvironment that is more favorable to brown patch, thus tall fescues with a more open canopy have been selected in breeding efforts. Although these more open-type selections may not have the optimum density for some turf situations, the reduction in brown patch severity may greatly enhance summer turf quality.

The brown patch data in Tables 1 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) specifically selected for improved brown patch resistance exhibited excellent disease resistance and recovery. Cultivars such as Six Point, Falcon IV, and DaVinci displayed moderate to excellent resistance to brown patch at most locations.

Conditions favoring the development of red thread (caused by *Laetisaria fuciformis*) occurred in the spring, resulting in a natural outbreak of the disease on the 2003 test (Table 4). Cultivars with excellent resistance to red thread were Regiment, DaVinci, and Signia. Moderate resistance was seen in the cultivars Raptor, Rendition, and Tracer.

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 improvements 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 (as that seen in Rebel Jr. and Falcon II) to dark green.

Spring Green-up

Certain cultivars are able to break out of winter dormancy more quickly than others, resulting in an earlier spring green-up (Tables 1, 2, and 3). Cultivars that were quick to green up at all locations were Kentucky 31, Jaguar 3, and Floridian. Cultivars that greened up more slowly included Signia, Raptor, and Corgi. It is interesting to note that cultivars that are the slowest to green up usually rate the highest for color.

Density and Leaf Texture

Both of these traits are highly variable among tall fescue cultivars (Table 2). Cultivars with the high-

est turf density were Kalahari, Quest, Padre, and Escalade. On the opposite end of the spectrum were cultivars Tomahawk GT, Bonsai, and Kentucky-31, all of which exhibited a more open-type growth. Cultivars with the finest leaf texture, such as Escalade, Guardian 21, and DaVinci, also exhibited some of the highest turf density. The growth habit of cultivars with a coarser leaf texture, such as Tomahawk GT, Tempest, and Kentucky 31, was more open.

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. Improvements in shade tolerance, density, leaf texture, and color have made tall fescue a more popular selection in 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 susceptibility to brown patch, thus the Rutgers breeding program is focusing on developing cultivars that can better handle brown patch disease pressure.

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Table 1. Performance of tall fescue cultivars and selections in a turf trial established in September 2001 at Adelphia, NJ. (Includes all entries of the 2001 National Tall Fescue Test - NTEP.)

Cultivar or Selection	-----Turf Quality'-----					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
1 Justice	6.6	7.0	6.6	6.5	6.2	4.3	5.3	6.0	4.7
2 Avenger	6.5	7.1	6.2	6.3	6.3	4.0	5.8	5.7	6.0
3 DaVinci	6.3	6.5	6.3	6.1	6.3	2.7	5.7	5.3	6.0
4 Rebel IV	6.3	6.5	6.3	6.1	6.2	5.0	5.7	5.3	6.0
5 Inferno	6.3	7.0	6.4	5.6	6.1	3.3	5.8	5.0	6.7
6 Falcon IV	6.3	6.6	6.2	6.1	6.1	4.3	5.3	4.7	6.0
7 Cochise III	6.1	6.4	6.2	6.0	5.7	4.7	4.5	4.7	4.3
8 L1D comp	5.9	6.4	6.2	5.9	5.3	2.3	5.5	6.7	4.3
9 Baltimore	5.9	6.2	5.8	5.8	5.8	3.7	3.8	3.0	4.7
10 Blackwatch	5.9	6.5	5.7	6.0	5.5	5.0	5.7	5.3	6.0
11 L1F comp	5.9	6.4	5.8	6.0	5.4	4.0	5.2	5.0	5.3
12 Guardian-21	5.9	6.0	5.9	5.7	5.7	5.0	5.2	5.0	5.3
13 L11 comp	5.8	6.0	5.9	6.0	5.4	4.0	5.3	5.7	5.0
14 L1L comp	5.8	5.7	6.1	5.9	5.6	2.7	4.8	4.7	5.0
15 Rebel Exeda	5.8	6.3	5.5	5.6	5.6	6.0	5.3	5.3	5.3
16 SBL	5.8	6.2	5.8	5.7	5.3	5.0	5.7	5.7	5.7
17 Coyote II	5.7	5.2	6.0	6.0	5.8	1.7	5.2	5.0	5.3
18 Raptor	5.7	6.0	5.7	5.7	5.3	2.0	4.2	3.7	4.7
19 Finelawn Elite	5.7	6.2	5.7	5.5	5.3	4.3	4.8	4.7	5.0
20 Kalahari	5.7	5.8	5.7	5.6	5.5	3.7	4.3	4.3	4.3
21 01-6TF	5.6	5.7	5.6	5.8	5.4	4.7	4.3	4.0	4.7
22 Bingo	5.6	5.4	5.8	6.0	5.3	4.3	4.0	4.3	3.7
23 2nd Millennium	5.6	5.4	5.8	5.7	5.3	4.7	4.2	4.3	4.0
24 Escalade	5.5	5.2	5.5	5.9	5.6	5.0	4.8	5.0	4.7
25 Hounddog 6	5.5	5.2	5.8	5.7	5.4	3.7	4.0	3.7	4.3

(Continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
26 Mustang 3	5.5	5.2	5.3	5.5	6.1	3.7	5.8	5.7	6.0
27 Padre	5.5	5.3	5.4	5.5	5.9	4.3	5.8	5.7	6.0
28 Cayenne	5.5	5.4	5.8	5.4	5.3	3.0	4.2	4.3	4.0
29 Titanium	5.5	5.3	5.9	5.5	5.3	5.0	5.8	5.7	6.0
30 Turbo	5.5	5.4	5.6	5.2	5.6	3.7	4.5	4.7	4.3
31 BAR Fa 1005	5.4	5.3	5.4	5.4	5.5	4.3	5.7	5.3	6.0
32 Forte	5.4	5.7	5.5	4.9	5.4	3.0	5.0	4.7	5.3
33 Ultimate	5.4	4.7	5.2	5.9	5.7	4.0	4.8	4.0	5.7
34 01 5TF	5.4	5.4	5.5	5.2	5.3	4.0	4.2	3.0	5.3
35 PST-5FZD	5.3	5.0	5.3	5.5	5.4	3.7	4.5	4.3	4.7
36 Dynamic	5.3	6.0	5.2	5.0	5.0	4.0	4.2	4.0	4.3
37 Firebird	5.3	4.8	5.3	5.8	5.3	3.3	4.8	4.3	5.3
38 Magellan	5.3	4.8	5.3	5.4	5.7	3.7	6.2	6.3	6.0
39 Greenkeeper	5.3	5.8	5.3	5.0	5.0	5.3	4.2	4.3	4.0
40 Rendition	5.3	6.1	5.2	5.2	4.6	3.3	4.0	5.0	3.0
41 Fidelity	5.3	5.0	5.3	5.5	5.4	4.3	5.3	5.3	5.3
42 K01-E03	5.3	4.6	5.5	5.7	5.4	5.3	4.7	4.0	5.3
43 CIS-TF-60	5.3	4.1	5.6	6.2	5.3	4.7	3.8	3.7	4.0
44 CIS-TF 41	5.3	5.2	5.6	5.5	4.8	3.7	3.7	4.0	3.3
45 CIS-TF-77	5.3	5.1	5.3	5.4	5.2	4.0	4.8	5.3	4.3
46 MA 158	5.3	5.1	5.3	5.4	5.2	3.0	3.5	3.7	3.3
47 5BUD	5.3	5.2	5.2	5.1	5.5	4.3	5.8	5.7	6.0
48 Five Point	5.2	5.6	5.3	4.9	5.2	3.3	3.8	4.3	3.3
49 Dynasty	5.2	5.2	5.0	5.3	5.4	4.0	5.5	4.7	6.3
50 Solara	5.2	5.2	5.2	5.3	5.2	5.7	4.8	5.0	4.7

(Continued)

Table 1 (continued).

Cultivar or Selection	-----Turf Quality'-----					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
51 SRX 8FFT	5.2	5.9	5.5	4.9	4.7	3.0	3.3	3.0	3.7
52 5BU	5.2	5.2	5.3	5.1	5.3	3.3	5.0	5.0	5.0
53 PST-DDL	5.2	5.8	5.1	5.0	4.9	3.3	2.8	3.0	2.7
54 01-3TF	5.2	5.3	5.0	5.2	5.3	4.0	4.8	4.7	5.0
55 Lexington	5.2	4.9	5.1	5.3	5.4	4.0	5.3	4.7	6.0
56 SRX 8DD MPP	5.2	6.0	4.9	5.4	4.4	3.0	2.2	2.3	2.0
57 Cortez II	5.2	5.5	5.5	5.1	4.6	3.0	3.7	3.3	4.0
58 Scorpion II	5.2	4.8	5.2	5.6	5.1	1.7	4.8	4.7	5.0
59 5PAL	5.2	5.5	4.9	5.0	5.2	4.7	5.0	5.0	5.0
60 01-7TF	5.1	4.9	4.9	5.4	5.4	5.0	5.5	5.3	5.7
61 SR 8550	5.1	5.9	5.1	4.8	4.7	3.0	2.5	2.7	2.3
62 Blade Runner	5.1	5.1	5.0	5.3	5.2	4.7	4.7	4.7	4.7
63 SRX 8601	5.1	5.3	5.1	5.2	4.9	2.7	3.3	3.0	3.7
64 Serengeti	5.1	5.0	5.2	5.1	5.2	4.7	4.8	4.7	5.0
65 Beagle 1	5.1	5.6	5.3	4.9	4.6	2.0	2.7	2.7	2.7
66 Corgi	5.1	4.8	5.4	5.5	4.8	2.0	3.7	4.0	3.3
67 Apache III	5.1	5.1	5.2	5.0	5.1	4.7	3.7	3.7	3.7
68 5BUL	5.1	5.0	5.0	5.3	5.1	3.7	4.5	5.0	4.0
69 Quest	5.1	5.5	4.6	5.1	5.1	2.7	4.7	4.3	5.0
70 Tuxedo	5.1	4.6	5.3	5.2	5.2	3.0	3.8	3.3	4.3
71 Innovator	5.1	5.0	5.1	5.1	5.1	4.3	4.5	4.0	5.0
72 Pick 00 BFA	5.1	5.3	4.9	5.1	5.0	3.7	3.8	4.7	3.0
73 Pick TF FD-97	5.1	4.8	5.2	5.3	5.0	3.7	4.3	3.3	5.3
74 UT-155	5.1	5.1	5.0	5.2	4.8	3.0	3.8	3.7	4.0
75 Tahoe	5.0	5.1	5.0	5.2	4.9	2.0	3.2	3.0	3.3

(Continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
76 JT-12	5.0	4.5	5.1	5.3	5.1	2.7	3.5	4.0	3.0
77 JT-6	5.0	4.5	5.0	5.2	5.3	2.0	4.5	4.3	4.7
78 Masterpiece	5.0	4.5	5.0	5.4	5.1	5.7	4.8	4.7	5.0
79 ATF 866	5.0	4.6	5.1	5.4	4.9	3.0	3.0	3.3	2.7
80 Riverside	5.0	5.3	5.1	4.9	4.6	2.7	3.2	3.3	3.0
81 PST-5BZ	5.0	5.1	4.9	5.0	5.0	4.3	4.3	4.0	4.7
82 5BRO	5.0	4.8	4.9	5.2	5.0	3.7	6.5	6.3	6.7
83 ATF 859	5.0	4.9	5.1	5.1	4.8	3.0	4.2	3.7	4.7
84 01-8TF	5.0	5.0	4.7	5.0	5.2	4.0	4.5	4.3	4.7
85 Adam's Valley	5.0	5.3	4.9	4.8	4.9	5.0	3.3	3.0	3.7
86 Matador GT	5.0	4.6	5.1	4.9	5.2	3.7	4.5	4.3	4.7
87 JT-15	5.0	4.6	5.2	5.2	4.8	3.0	3.8	3.7	4.0
88 Constitution	5.0	4.9	5.0	5.0	4.9	3.3	4.2	3.7	4.7
89 Matador	5.0	5.6	5.0	4.6	4.6	3.3	2.5	2.0	3.0
90 01-ORTFZS	5.0	4.5	4.9	5.2	5.2	5.3	5.7	5.3	6.0
91 Rebel Sentry	4.9	5.8	5.2	4.6	4.2	4.0	3.5	3.0	4.0
92 Gremlin	4.9	5.1	5.2	4.9	4.5	4.0	3.2	3.7	2.7
93 Mustang 3	4.9	5.4	5.1	4.9	4.4	2.7	3.3	4.0	2.7
94 PST-5JM	4.9	4.8	5.0	4.9	5.0	2.3	4.0	4.0	4.0
95 Pick SM4	4.9	4.8	4.6	5.3	5.0	3.0	4.7	4.7	4.7
96 Rembrandt	4.9	4.9	4.8	5.0	4.8	4.7	4.2	4.7	3.7
97 01-ORTF2W	4.9	4.7	5.0	5.1	4.8	4.0	4.7	5.0	4.3
98 K01-8007	4.9	4.3	5.0	5.3	5.0	1.7	3.3	4.0	2.7
99 K01-E09	4.9	4.2	5.0	5.5	4.8	4.0	4.3	4.7	4.0
100 JT-13	4.9	4.4	5.1	5.2	4.9	1.3	3.7	3.3	4.0

(Continued)

Table 1 (continued).

	Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
101	SR 8250	4.9	5.3	4.9	4.8	4.6	3.3	3.5	3.3	3.7
102	Finesse II	4.9	4.7	5.1	4.9	4.9	2.3	3.0	2.7	3.3
103	Picasso	4.9	5.2	4.8	4.7	4.8	3.7	4.0	3.0	5.0
104	CAS-ED	4.9	4.7	4.6	5.2	5.1	4.0	4.8	4.3	5.3
105	PST-5NAS	4.9	4.7	5.0	4.7	5.1	4.7	4.7	4.7	4.7
106	MA-127	4.9	4.7	4.9	4.9	5.1	2.3	3.7	4.0	3.3
107	CIS TF-78	4.9	4.6	5.3	5.0	4.6	2.7	3.5	3.3	3.7
108	CIS TF 66	4.9	4.8	4.8	4.9	5.1	3.3	4.3	4.3	4.3
109	Virtue II	4.9	4.7	4.6	4.8	5.3	3.0	5.5	5.7	5.3
110	Silverstar	4.9	4.7	4.7	5.0	5.0	5.0	5.3	5.0	5.7
111	Crossfire II	4.9	4.9	4.7	5.1	4.7	5.0	5.0	4.3	5.7
112	PST-53T	4.8	4.9	4.8	4.9	4.8	3.7	3.3	3.3	3.3
113	Pure Gold	4.8	5.5	5.0	4.5	4.3	2.3	2.3	2.0	2.7
114	Silverado II	4.8	4.6	4.7	5.1	4.8	5.3	4.3	4.0	4.7
115	PST-5S12	4.8	5.0	4.9	4.8	4.6	5.7	3.8	4.3	3.3
116	Grande II	4.8	4.7	4.8	4.9	4.9	3.0	4.3	4.0	4.7
117	Tar Heel II	4.8	4.6	4.7	5.0	4.9	6.3	4.8	4.3	5.3
118	Covenant	4.8	4.2	4.8	5.5	4.7	3.3	4.2	3.7	4.7
119	01-4TF	4.8	5.0	4.7	5.1	4.4	5.0	3.0	2.3	3.7
120	PENN 1901	4.8	5.7	4.7	4.2	4.6	2.7	4.2	3.7	4.7
121	PST-5KU	4.8	4.7	5.1	4.6	4.8	2.3	3.7	3.3	4.0
122	Pick 00 CFA	4.8	4.8	4.6	4.8	4.9	4.0	4.3	4.3	4.3
123	PST-5LO	4.8	4.7	4.7	4.7	5.0	3.0	4.5	4.7	4.3
124	SR 8600	4.8	5.3	4.9	4.5	4.4	2.7	3.5	4.3	2.7
125	ATF 847	4.8	4.4	4.7	5.0	4.9	2.7	4.0	4.0	4.0

(Continued)

Table 1 (continued).

	Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
126	JT-9	4.8	4.3	4.8	5.3	4.7	2.0	3.7	3.3	4.0
127	Sunpro	4.8	5.3	4.5	4.8	4.4	2.0	3.5	3.7	3.3
128	Pick TF BA-97	4.8	4.4	4.6	5.2	4.8	4.7	4.2	4.0	4.3
129	Regiment II	4.7	4.8	4.8	4.5	4.8	3.0	4.3	3.3	5.3
130	EA-163	4.7	4.7	4.9	4.6	4.8	2.7	3.7	3.3	4.0
131	ATF 894	4.7	4.4	4.7	5.2	4.6	2.3	4.2	4.0	4.3
132	Wolfpack	4.7	5.0	4.6	4.8	4.6	5.7	4.2	4.0	4.3
133	01-ORTF2T	4.7	4.6	4.6	4.7	4.9	3.7	4.7	4.7	4.7
134	Scorpion	4.7	4.2	4.6	5.1	5.0	3.7	4.7	3.7	5.7
135	Crewcut II	4.7	5.5	4.6	4.4	4.3	2.7	2.8	3.0	2.7
136	GA 011	4.7	4.8	4.3	4.8	4.9	5.7	5.3	4.7	6.0
137	Olympic Gold	4.7	5.1	4.7	4.7	4.3	4.0	3.8	3.7	4.0
138	Pick 00-AFA	4.7	4.9	4.7	4.4	4.7	3.7	4.0	4.3	3.7
139	MRF-29	4.7	4.5	4.7	5.0	4.5	2.0	3.5	2.7	4.3
140	5TDH	4.7	4.6	4.6	4.9	4.7	3.0	5.5	6.3	4.7
141	FA 20-92	4.7	5.2	4.7	4.4	4.5	1.7	3.3	3.0	3.7
142	PST-5BAB	4.7	4.6	4.7	4.7	4.7	2.0	4.2	4.0	4.3
143	Pick TF H-97	4.7	4.9	4.5	4.6	4.5	3.7	4.3	5.0	3.7
144	Pick-OD-AFA	4.6	4.8	4.8	4.5	4.4	3.7	3.7	3.3	4.0
145	SRX 82RH2	4.6	4.6	4.3	4.7	4.9	3.7	4.3	4.3	4.3
146	Signia	4.6	4.6	4.7	4.2	4.9	1.7	4.3	3.7	5.0
147	ATF 805	4.6	4.8	4.9	4.5	4.3	1.7	3.7	3.0	4.3
148	Greystone	4.6	4.2	4.5	5.4	4.4	2.3	3.7	3.7	3.7
149	Arabia	4.6	5.5	4.2	4.3	4.4	2.3	2.8	2.3	3.3
150	5RZS	4.6	4.3	4.7	4.6	4.8	2.3	4.8	4.7	5.0

(Continued)

Table 1 (continued).

	Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
151	SRX 8ED FF	4.6	5.0	4.5	4.7	4.1	2.3	2.8	3.3	2.3
152	Arid 3	4.6	5.1	4.5	4.5	4.2	2.0	3.2	2.7	3.7
153	NA-TDD	4.6	4.1	4.5	4.8	4.9	1.7	3.8	3.7	4.0
154	MRF-27	4.5	4.7	4.5	4.7	4.3	3.0	3.2	3.0	3.3
155	Watchdog	4.5	4.8	4.2	4.2	4.8	3.7	4.7	4.3	5.0
156	MA 138	4.5	4.6	4.3	4.4	4.8	2.3	4.3	4.3	4.3
157	MRF-28	4.5	4.4	4.3	4.6	4.8	2.3	4.0	3.3	4.7
158	ATF 864	4.5	5.1	4.2	4.3	4.4	3.0	3.8	4.0	3.7
159	BAR Fa 1003	4.5	4.1	4.5	4.4	5.0	3.0	4.7	4.0	5.3
160	ATF 861	4.5	4.2	4.4	4.9	4.6	3.3	3.5	3.0	4.0
161	SRX 8CDE EW	4.5	4.6	4.3	4.7	4.4	2.7	3.5	3.7	3.3
162	Barrera	4.5	5.3	4.5	4.1	3.9	4.7	3.0	2.7	3.3
163	Focus	4.5	4.8	4.4	4.2	4.5	3.7	4.7	3.3	6.0
164	Prospect	4.5	4.9	4.4	4.3	4.3	3.7	4.3	4.7	4.0
165	Pick ZMG	4.5	4.3	4.4	4.2	4.8	3.0	5.0	4.7	5.3
166	ATF 857	4.5	4.3	4.3	4.8	4.4	2.7	2.8	3.0	2.7
167	ATF 895	4.5	4.2	4.3	5.1	4.3	2.3	3.7	3.0	4.3
168	ATF 860	4.4	4.2	4.1	4.8	4.6	4.0	4.5	5.0	4.0
169	Millennium	4.4	4.6	4.3	4.3	4.6	3.3	4.2	3.7	4.7
170	Stonewall	4.4	3.8	4.6	4.6	4.6	1.3	3.2	3.0	3.3
171	MRF-211	4.4	4.1	4.3	4.4	4.8	3.3	3.7	3.0	4.3
172	Pick TF DC-97-98	4.4	4.3	4.1	4.7	4.4	3.0	3.8	3.3	4.3
173	Tar Heel	4.4	4.5	4.2	4.2	4.6	4.0	5.0	5.0	5.0
174	DLFJ 209	4.3	4.0	4.1	4.4	4.9	3.0	4.8	5.0	4.7
175	ATF 806	4.3	4.2	4.3	4.8	4.0	3.3	2.3	2.3	2.3

(Continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
176 Barrington	4.3	4.9	4.4	4.1	3.9	3.0	2.7	2.3	3.0
177 MRF-26	4.3	4.0	4.1	4.6	4.4	2.0	3.2	3.3	3.0
178 ATF-800	4.3	4.0	4.3	4.4	4.5	1.3	3.5	3.0	4.0
179 Jaguar 3	4.3	4.2	3.9	4.2	4.8	5.3	4.7	4.3	5.0
180 Kitty Hawk 2000	4.3	4.0	4.1	4.7	4.3	3.3	3.0	3.3	2.7
181 ATF 586	4.3	4.2	4.1	4.6	4.2	1.7	3.2	3.0	3.3
182 DLFJ 211	4.3	4.6	4.3	4.2	4.0	2.7	3.2	3.7	2.7
183 Watchdog	4.3	4.6	3.8	4.2	4.4	2.7	3.8	3.7	4.0
184 MRF-210	4.2	4.2	4.2	4.4	4.1	2.3	2.8	2.3	3.3
185 Tulsa	4.2	4.3	4.0	4.5	4.2	4.0	3.8	4.3	3.3
186 Tracer	4.2	5.0	4.2	3.7	4.0	3.7	3.2	2.7	3.7
187 DP 50-9226	4.2	3.7	4.0	4.6	4.6	3.3	3.8	4.0	3.7
188 SR 8500	4.2	4.6	3.9	4.1	4.2	4.0	3.0	3.0	3.0
189 Expedition	4.2	4.2	4.0	4.3	4.3	3.0	3.7	3.3	4.0
190 Barlexas II	4.2	5.2	4.0	3.8	3.8	3.0	2.5	2.3	2.7
191 01-ORTF3	4.2	3.6	3.8	4.6	4.7	4.0	3.8	4.0	3.7
192 Arizona	4.2	4.6	4.5	3.9	3.8	2.3	2.7	2.7	2.7
193 T991	4.2	4.4	3.8	4.0	4.4	2.7	3.8	3.3	4.3
194 Endeavor	4.2	4.3	3.8	4.2	4.4	4.7	4.3	5.0	3.7
195 GS Bulk E-99	4.1	4.4	3.9	4.3	4.0	4.0	3.2	3.3	3.0
196 Wyatt	4.1	4.6	3.9	4.3	3.7	5.7	3.5	3.7	3.3
197 MRF-25	4.1	4.2	4.1	3.8	4.2	2.3	3.0	2.7	3.3
198 SRX 82RH1	4.1	3.5	3.6	4.8	4.4	5.0	3.8	3.0	4.7
199 Alamo	4.1	4.8	3.7	3.8	3.9	2.3	2.5	1.7	3.3
200 ATF 807	4.1	4.0	4.3	4.4	3.5	1.7	1.5	1.3	1.7

(Continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
201 Titan Ltd	4.0	4.7	3.7	3.8	4.0	3.0	4.0	4.3	3.7
202 ATF 863	4.0	4.7	3.8	3.6	4.1	1.0	3.3	3.7	3.0
203 Laramie	4.0	4.9	3.8	3.7	3.7	2.3	3.3	2.3	4.3
204 CIS TF 40	4.0	4.1	3.8	3.8	4.4	1.7	4.2	4.0	4.3
205 Tomahawk GT	4.0	4.5	3.9	3.8	3.8	2.7	2.8	2.7	3.0
206 Trooper	4.0	3.9	3.8	4.3	4.1	5.0	2.7	2.7	2.7
207 ATF 704	4.0	3.8	3.7	4.4	4.2	1.3	3.3	2.7	4.0
208 Southern Choice	4.0	4.1	4.1	3.7	4.0	2.7	3.5	3.3	3.7
209 Coyote	4.0	4.8	3.7	3.7	3.6	3.3	3.5	3.0	4.0
210 Lancer E	3.9	4.0	3.8	4.2	3.7	6.3	2.2	2.3	2.0
211 BAR FA 1CR 7	3.9	4.3	3.7	3.8	3.7	2.3	3.3	3.3	3.3
212 Bravo	3.9	4.4	3.7	3.5	3.8	3.7	3.5	3.3	3.7
213 DLF-J210	3.9	3.9	3.7	3.8	4.0	2.3	3.7	3.0	4.3
214 Tulsa II	3.8	4.1	3.6	3.5	4.1	2.3	3.7	3.0	4.3
215 TF 66	3.8	4.3	3.8	3.6	3.6	4.0	2.7	2.3	3.0
216 SR 8210	3.8	4.0	3.5	4.1	3.7	3.3	2.7	2.7	2.7
217 Legitimate	3.8	3.5	3.8	3.9	3.9	3.0	2.7	3.0	2.3
218 Daytona	3.8	4.1	3.6	3.5	3.8	2.3	2.8	2.7	3.0
219 Regiment	3.8	4.2	3.6	3.7	3.6	4.0	2.7	2.3	3.0
220 Grande	3.8	3.9	3.3	3.9	3.9	4.3	3.8	4.0	3.7
221 BAR FA 1002	3.8	3.5	3.4	4.0	4.1	3.7	3.8	3.7	4.0
222 Barlexas	3.7	4.1	3.8	3.5	3.5	4.0	3.3	2.3	4.3
223 Dominion	3.7	3.8	3.8	3.3	3.9	1.7	4.5	3.7	5.3
224 Talisman	3.7	4.1	3.7	3.6	3.5	3.3	3.3	3.7	3.0
225 MRF-22	3.7	3.9	3.5	3.4	4.0	3.7	2.5	1.7	3.3

(Continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
226 Starlet	3.7	4.3	3.6	3.4	3.5	3.7	2.8	3.0	2.7
227 ATF 865	3.7	3.4	3.5	4.1	3.8	2.0	2.5	2.0	3.0
228 Bonanza II	3.7	4.0	3.1	3.7	3.9	6.0	3.7	4.0	3.3
229 Stetson	3.6	3.8	3.5	3.5	3.5	5.3	2.8	3.3	2.3
230 01-ORTF2	3.6	3.4	3.8	3.6	3.4	2.3	2.8	3.0	2.7
231 GO-SIU2	3.5	3.2	3.1	3.7	4.2	3.0	4.0	3.7	4.3
232 South Paw	3.5	3.7	3.4	3.5	3.5	2.0	2.2	2.3	2.0
233 JTTF-2000	3.5	3.9	3.3	3.5	3.2	2.0	1.8	1.7	2.0
234 Mustang II	3.5	3.7	3.2	3.2	3.6	4.0	3.2	3.3	3.0
235 Elisa	3.4	3.6	3.2	3.3	3.6	6.0	4.2	4.3	4.0
236 DLFJ 9178	3.4	3.8	3.0	3.3	3.3	3.0	2.7	2.0	3.3
237 Crewcut	3.4	3.7	3.1	3.0	3.7	4.0	2.8	2.3	3.3
238 Falcon II	3.3	3.4	3.2	3.3	3.4	5.3	3.2	3.0	3.3
239 DP 50-9082	3.3	2.6	3.1	3.8	3.6	4.3	3.5	3.3	3.7
240 ATF 707	3.2	3.2	2.8	3.3	3.7	1.3	3.2	2.3	4.0
241 Floridian	3.1	3.4	2.8	3.2	2.9	5.3	2.3	2.0	2.7
242 GO-RD4	3.0	3.2	2.8	2.8	3.3	2.3	3.7	3.3	4.0
243 Bonsai	2.9	3.3	2.6	2.8	3.1	2.0	2.5	2.3	2.7
244 Total	2.5	2.5	2.2	2.6	2.8	5.0	2.5	2.3	2.7
245 Tipton	2.4	2.0	1.9	2.6	3.1	6.0	3.5	3.3	3.7
246 Kentucky-31 E+	1.1	1.3	1.0	1.0	1.1	7.0	3.2	2.7	3.7

(Continued)

Table 1 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
LSD at 5% =	0.4	0.6	0.5	0.7	0.6	1.3	1.6	2.0	1.4

¹9 = best turf quality
²9 = earliest spring green-up
³9 = least disease

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

	Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
		2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
1	Rebel IV	6.5	6.7	6.2	6.6	6.6	4.7	5.3	6.3	5.3	5.3
2	Falcon IV	6.1	6.8	5.1	6.7	5.6	4.7	4.3	6.7	6.0	6.0
3	Coyote II	6.0	6.9	5.8	5.9	5.2	1.0	4.0	5.0	5.3	6.3
4	Avenger	5.9	6.7	5.5	6.3	5.1	4.0	3.3	5.0	6.0	6.3
5	Padre	5.9	5.7	5.7	6.2	6.2	4.0	5.0	7.0	4.7	5.7
6	Finelawn Elite	5.9	5.9	5.5	6.0	6.0	5.0	5.3	4.0	5.0	5.0
7	Escalade	5.9	5.6	5.5	6.3	6.2	4.0	4.7	7.0	5.3	7.0
8	Blackwatch	5.9	5.9	5.4	5.8	6.3	5.0	4.0	5.7	5.3	4.7
9	L1D Comp	5.9	6.4	5.4	6.1	5.5	3.0	5.0	6.0	6.0	6.3
10	L1F Comp	5.9	6.8	5.8	5.9	5.0	4.0	4.3	6.3	5.3	5.7
11	L1L Comp	5.9	6.4	5.5	5.9	5.6	3.0	3.3	5.7	5.3	6.0
12	Tar Heel II	5.8	5.3	6.3	5.5	6.4	5.3	5.3	5.7	4.3	5.3
13	Davinci	5.8	6.0	5.4	6.5	5.3	3.0	4.3	6.3	5.3	6.3
14	Inferno	5.8	7.0	5.5	6.2	4.4	3.0	3.3	5.3	5.3	5.7
15	Bingo	5.7	5.8	5.6	6.1	5.4	4.0	4.0	5.3	7.3	5.7
16	Ultimate	5.7	5.4	5.5	5.7	6.3	3.7	4.3	7.0	5.3	6.0
17	Cayenne	5.7	5.7	5.6	6.1	5.4	4.0	4.7	6.7	5.0	5.0
18	Justice	5.6	6.9	5.0	6.2	5.2	4.0	3.7	6.0	5.7	5.7
19	2nd Millennium	5.6	5.6	5.6	6.1	5.1	5.3	3.7	5.3	5.0	5.3
20	BAR Fa 1005	5.6	5.4	5.5	6.0	5.7	4.3	3.7	5.7	5.3	6.7
21	Titanium	5.6	5.6	5.3	5.9	5.6	3.3	4.7	5.7	5.3	5.3
22	Guardian-21	5.6	5.7	5.7	5.8	5.2	4.7	3.7	6.3	5.7	6.7
23	Cochise III	5.5	5.9	5.1	5.9	5.2	4.0	3.7	5.0	5.0	5.0
24	K01-8007	5.5	5.5	5.1	6.1	5.3	1.7	3.0	7.0	5.0	7.3
25	L11 Comp	5.5	6.4	5.1	5.9	4.7	4.3	4.3	6.0	5.0	5.7

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
26 Mustang 3	5.5	5.5	5.2	5.7	5.4	4.0	4.0	6.7	5.0	4.7
27 PST-5FZD	5.5	5.5	5.7	5.7	5.0	3.7	4.0	5.7	5.7	6.0
28 Greenkeeper	5.5	5.7	5.3	5.4	5.5	4.7	4.0	6.7	5.0	5.7
29 Biltmore	5.4	6.1	4.8	5.6	5.2	4.3	3.7	6.3	6.0	5.3
30 Fidelity	5.4	5.3	5.4	5.8	5.3	4.3	4.3	5.7	5.7	6.3
31 Silverado II	5.4	5.3	5.4	5.9	5.1	4.0	3.7	5.7	5.0	5.0
32 L1M Comp	5.4	5.8	5.3	5.5	5.2	4.0	3.3	5.7	6.7	5.7
33 Kalahari	5.4	5.3	4.8	5.8	5.6	4.3	4.0	7.3	5.3	6.0
34 Rembrandt	5.4	5.5	5.1	5.6	5.3	6.0	3.3	6.0	6.0	5.7
35 Hounddog 6	5.3	5.4	4.8	5.9	5.0	2.3	3.7	6.0	5.7	5.7
36 Turbo	5.3	5.4	5.1	5.1	5.3	4.0	4.0	5.0	6.0	4.7
37 Rebel Exeda	5.2	5.4	5.0	5.9	4.9	5.0	3.3	4.7	5.0	5.3
38 PST-53T	5.2	5.2	5.2	5.5	5.0	4.0	3.3	5.3	5.3	5.0
39 Quest	5.2	5.4	5.1	5.0	5.2	3.7	3.7	7.3	6.7	5.0
40 Magellan	5.2	5.2	5.1	5.6	4.8	3.7	4.3	6.0	5.7	5.3
41 Innovator	5.2	5.1	5.2	5.2	5.2	4.0	4.7	6.7	5.0	5.7
42 Solara	5.2	5.4	4.6	5.2	5.7	4.7	4.7	6.0	5.3	5.7
43 Lexington	5.2	5.1	5.4	5.5	4.6	4.0	3.7	5.0	5.7	5.3
44 Five Point	5.1	5.4	5.1	5.6	4.4	4.0	3.7	4.7	6.0	5.0
45 Dynamic	5.1	6.0	5.2	5.6	4.2	4.7	2.7	5.3	5.0	6.0
46 PST-5JM	5.1	5.7	5.4	5.0	4.9	4.3	3.3	5.0	5.7	5.3
47 Apache III	5.1	5.2	4.7	5.4	5.2	4.7	4.7	4.3	5.3	6.3
48 Forte	5.1	5.4	4.7	5.6	4.6	3.7	4.3	6.0	6.0	4.7
49 SR 8550	5.1	5.2	5.0	5.3	4.9	2.7	4.7	5.7	4.7	5.7
50 Masterpiece	5.1	5.2	5.3	5.0	5.0	5.7	4.0	5.7	5.0	5.7

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
51 Firebird	5.1	5.2	5.1	5.6	4.3	2.3	3.7	5.3	7.0	6.0
52 PST-5NAS	5.1	5.3	4.7	5.7	4.6	4.3	4.0	5.3	4.7	5.7
53 Silverstar	5.1	5.0	4.8	5.4	5.2	6.0	5.0	6.3	5.7	6.3
54 Dynasty	5.0	5.2	4.5	5.6	4.9	4.0	3.0	5.7	4.0	6.0
55 Hunter	5.0	5.6	4.8	5.3	4.5	2.3	3.7	4.3	7.7	4.7
56 Signia	5.0	5.2	4.6	5.3	4.9	2.7	4.0	4.7	6.0	5.7
57 CIS-TF-77	5.0	5.1	4.9	5.2	5.0	3.7	5.7	5.3	5.0	5.3
58 K01-E03	5.0	5.6	4.3	5.3	4.8	4.7	3.0	6.3	5.0	5.3
59 MA-127	5.0	5.1	4.7	5.5	4.7	3.0	3.3	6.3	5.0	4.7
60 PST-5LO	5.0	5.1	4.6	5.3	4.9	4.3	5.7	5.3	4.7	5.3
61 Olympic Gold	5.0	4.7	5.2	5.0	4.9	6.0	3.3	5.0	5.0	5.0
62 Rendition	4.9	5.8	4.1	5.1	4.4	4.0	3.0	5.0	5.0	5.0
63 Raptor	4.9	5.3	4.9	5.4	3.9	1.3	3.7	4.3	4.3	5.7
64 Pick ZMG	4.9	4.7	4.7	5.4	4.7	2.7	2.7	4.3	5.0	4.7
65 PST-5BZ	4.9	5.2	4.9	5.1	4.5	5.3	4.0	6.0	5.3	5.3
66 PST-DDL	4.9	6.0	4.8	4.9	4.0	2.7	3.3	5.3	5.7	5.0
67 PST-5BAB	4.9	4.7	4.7	4.9	5.3	3.7	5.3	6.0	5.3	4.7
68 UT-155	4.9	5.0	4.6	5.6	4.6	3.0	3.0	5.3	5.7	5.3
69 JT-13	4.9	5.0	4.4	5.1	4.9	2.3	4.0	6.0	5.3	5.7
70 Serengeti	4.9	4.5	4.5	5.0	5.5	4.7	4.3	5.7	4.7	5.3
71 Blade Runner	4.8	4.8	4.8	5.1	4.7	4.7	3.7	5.3	5.3	5.7
72 Gremlin	4.8	4.8	4.2	5.1	5.3	4.7	4.3	6.3	5.3	5.7
73 Matador	4.8	5.5	4.6	4.9	4.3	3.3	3.0	4.0	6.3	6.0
74 JT-15	4.8	5.2	4.7	5.3	4.2	3.3	2.7	5.3	5.3	5.7
75 K01-E09	4.8	5.1	4.9	4.9	4.4	4.0	2.7	6.3	5.7	6.3

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
76 Grande II	4.8	5.1	4.7	5.2	4.3	4.0	3.7	5.0	5.3	5.7
77 Picasso	4.8	5.0	4.8	5.1	4.5	5.0	3.3	6.0	5.7	5.0
78 Riverside	4.8	4.9	5.0	5.2	4.1	3.7	3.7	5.7	4.7	4.7
79 Finesse II	4.8	5.0	4.4	5.2	4.5	2.7	3.3	5.0	5.3	5.3
80 Constitution	4.8	5.0	4.2	4.9	5.1	3.3	4.3	4.3	5.3	4.7
81 Jaguar 3	4.8	4.4	4.2	4.5	6.0	6.7	4.7	5.3	3.3	5.0
82 PST-5S12	4.8	4.7	4.9	4.9	4.7	6.3	3.7	5.3	4.7	5.0
83 EA-163	4.8	4.9	4.9	4.6	4.8	3.3	4.0	4.7	6.0	4.0
84 Watchdog	4.8	4.9	4.6	4.8	4.8	5.7	3.3	5.7	4.7	6.0
85 CAS-ED	4.8	4.6	4.5	4.8	5.1	3.0	3.7	5.7	5.3	4.7
86 Prospect	4.7	4.8	4.5	4.6	5.1	4.0	5.3	4.3	5.0	4.7
87 Focus	4.7	4.8	4.0	4.8	5.2	4.7	5.7	5.0	5.7	4.7
88 Pick-OD-AFA	4.7	5.3	4.4	4.8	4.3	4.0	3.3	5.0	5.0	5.7
89 Pick TF H-97	4.7	4.8	5.1	4.5	4.4	2.0	6.3	4.7	4.3	2.7
90 PST-5KU	4.7	4.7	4.5	5.5	4.3	3.3	2.3	5.7	5.0	5.3
91 Tar Heel	4.7	4.5	5.0	4.5	4.9	5.3	4.7	5.3	4.7	4.7
92 JT-12	4.7	4.9	4.7	5.2	4.1	2.7	3.3	5.7	7.0	6.3
93 Matador GT	4.7	4.8	4.3	5.0	4.8	4.0	4.7	6.0	5.7	6.0
94 Scorpion	4.7	5.0	4.6	5.0	4.2	5.3	3.0	4.7	4.7	5.3
95 Wolfpack	4.7	4.8	5.1	4.4	4.8	7.7	4.3	4.3	4.7	4.0
96 SR 8250	4.7	4.6	4.3	4.8	5.1	4.3	4.0	5.0	5.3	5.3
97 ATF 799	4.6	4.7	4.4	5.3	4.2	2.3	3.3	6.3	5.0	4.3
98 Endeavor	4.6	4.6	4.2	4.6	5.0	6.7	5.0	5.7	5.0	4.7
99 Tahoe	4.6	5.0	3.8	4.5	5.1	2.3	4.3	5.3	5.3	4.3
100 Barrington	4.6	4.8	4.5	4.8	4.3	4.3	3.7	4.3	5.0	5.3

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
101 Tuxedo	4.6	4.1	4.6	5.3	4.3	3.3	3.3	6.3	6.0	5.0
102 SR 8600	4.6	4.9	4.2	4.6	4.6	5.0	4.0	5.0	4.3	6.0
103 Corgi	4.5	4.8	4.6	5.0	3.7	2.7	2.7	5.0	4.7	6.0
104 MRF-27	4.5	4.9	4.1	4.8	4.1	4.0	3.0	4.7	5.0	4.3
105 NA-TDD	4.5	4.8	4.3	4.6	4.1	2.7	2.7	5.7	6.7	4.7
106 MA 138	4.5	4.6	4.1	4.7	4.7	2.0	3.7	5.3	5.7	5.0
107 Penn1901	4.5	4.8	3.6	4.8	4.7	3.3	4.7	4.7	5.0	5.7
108 MRF-210	4.5	4.6	4.1	4.8	4.4	4.0	4.0	5.3	5.0	5.3
109 MRF-211	4.5	5.0	4.3	4.9	4.0	2.0	2.7	5.7	5.7	5.0
110 Dominion	4.4	4.2	4.5	4.6	4.4	4.7	4.3	4.3	4.3	5.0
111 ATF 586	4.4	4.4	4.2	4.4	4.8	3.0	3.7	5.0	4.0	5.0
112 Adam's Valley	4.4	4.6	3.9	4.9	4.4	3.7	3.7	3.7	5.0	4.3
113 Ninja 2	4.4	4.3	3.8	5.1	4.6	2.3	3.7	4.7	5.3	4.7
114 Millennium	4.4	4.7	3.7	4.5	4.7	3.7	3.7	4.7	5.0	5.0
115 JT-6	4.4	4.7	4.2	4.5	4.2	1.7	3.3	5.0	6.3	5.3
116 JT-9	4.4	4.6	3.7	4.8	4.5	2.7	3.7	6.7	6.0	6.0
117 Wyatt	4.4	4.6	4.1	4.2	4.7	4.7	4.7	4.7	4.7	6.0
118 MA 158	4.4	4.6	4.1	4.7	4.3	4.7	4.0	5.0	4.7	4.7
119 Tracer	4.3	4.8	4.0	4.6	4.0	4.0	3.3	4.3	5.0	5.3
120 MRF-29	4.3	4.5	3.9	4.2	4.7	3.0	4.0	4.3	5.0	5.7
121 Covenant	4.3	4.7	3.9	4.5	4.1	3.3	3.0	6.0	5.0	5.3
122 Expedition	4.3	4.4	3.8	4.5	4.5	3.7	3.3	5.0	5.7	6.3
123 Rebel Sentry	4.3	5.0	3.7	4.4	4.1	2.7	4.3	4.0	4.7	4.0
124 Barrera	4.3	4.8	4.1	4.3	3.9	4.7	3.3	4.7	4.7	4.7
125 Bravo	4.3	4.9	4.0	4.4	3.9	5.3	4.0	4.0	4.7	5.0

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
126 Legitimate	4.3	4.1	4.0	4.5	4.5	4.3	4.0	5.0	4.3	4.0
127 Trooper	4.2	4.1	3.4	4.3	5.1	5.3	4.7	4.7	6.0	5.3
128 MRF-25	4.2	4.9	4.1	4.3	3.6	5.3	3.3	4.3	4.7	4.7
129 Barlexas II	4.2	4.8	3.9	4.4	3.6	4.0	3.3	3.7	5.0	6.0
130 MRF-26	4.2	4.4	3.5	4.4	4.5	3.7	3.3	6.0	4.3	4.7
131 Barlexas	4.2	4.5	4.0	3.9	4.3	4.3	4.7	4.3	4.3	5.7
132 Tulsa II	4.2	4.0	4.0	4.2	4.4	5.0	4.0	5.0	3.7	5.0
133 Stonewall	4.2	4.1	4.0	4.7	3.8	1.0	3.0	5.3	5.0	5.7
134 MRF-28	4.2	4.4	3.8	4.2	4.2	2.3	3.3	4.3	5.3	5.0
135 Elisa	4.1	4.5	4.4	3.9	3.6	8.7	2.7	4.3	4.0	5.3
136 Kitty Hawk 2000	4.1	4.6	3.7	4.5	3.9	4.0	3.7	5.0	5.0	5.0
137 DP 50-9226	4.1	4.3	3.9	4.4	3.9	5.0	3.7	4.3	4.0	5.0
138 TF66	4.1	4.5	3.5	4.3	4.2	5.0	3.0	5.3	5.3	6.3
139 ATF 806	4.1	4.4	3.8	4.5	3.8	3.0	2.7	5.7	4.3	4.0
140 Tempest	4.1	4.2	4.0	3.9	4.3	4.0	3.7	4.0	4.3	3.7
141 BAR Fa 1003	4.1	4.3	3.9	4.2	3.9	4.0	3.0	5.0	5.0	5.0
142 Tomahawk GT	4.1	4.4	4.0	4.1	4.0	3.0	3.7	3.0	4.7	4.0
143 Titan Ltd	4.0	4.6	3.6	3.8	3.9	3.3	3.7	5.3	4.3	5.7
144 Coyote	4.0	4.2	3.5	4.0	4.5	3.0	4.3	5.3	4.3	5.0
145 Regiment II	4.0	4.2	3.5	4.2	4.3	2.0	3.7	4.7	5.0	4.3
146 Pure Gold	4.0	4.3	3.7	4.5	3.2	1.3	4.0	4.7	4.3	5.3
147 ATF 704	3.8	3.7	3.3	4.3	4.0	3.3	3.7	5.0	4.0	4.0
148 Laramie	3.8	4.2	3.6	3.9	3.6	2.7	3.7	4.0	5.0	4.3
149 DLF-J210	3.8	3.8	3.0	4.3	4.1	3.0	4.7	3.7	4.7	3.3
150 Southern Choice	3.8	3.9	3.3	3.6	4.2	3.0	4.7	4.3	4.0	4.0

(Continued)

Table 2 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Spring Green-up ² April 2005	Brown Patch ³ July 2005	Density ⁴ Nov. 2005	Color ⁵ Nov. 2005	Texture ⁶ Nov. 2005
	2002-2005 Avg.	2002 Avg.	2003 Avg.	2004 Avg.	2005 Avg.					
151 Lancer E	3.7	4.0	3.3	4.2	3.5	7.3	2.7	3.7	4.0	5.0
152 Stetson	3.7	3.5	3.4	3.9	4.1	5.3	4.0	5.0	4.3	4.3
153 Falcon II	3.7	3.6	3.2	4.1	4.1	8.0	4.0	4.7	5.7	4.3
154 T991	3.7	4.3	3.5	3.7	3.3	2.3	2.7	3.7	5.7	4.0
155 Daytona	3.5	4.0	3.2	3.4	3.5	2.7	3.3	4.7	4.3	4.3
156 ATF 707	3.5	4.2	3.4	3.4	3.1	1.7	2.7	4.0	5.0	3.7
157 DP 50-9082	3.5	3.4	3.1	3.5	3.9	3.0	3.7	5.0	5.3	5.0
158 Floridian	3.5	3.7	3.1	3.3	3.8	8.3	4.0	4.0	4.3	4.3
159 GO-RD4	3.4	3.5	3.0	3.4	3.8	5.3	3.3	3.7	4.0	4.0
160 JTTF-2000	3.4	3.8	2.8	3.5	3.4	2.7	3.0	4.3	5.0	5.0
161 BAR FA 1CR 7	3.4	4.5	3.2	3.3	3.0	3.3	3.0	4.0	4.7	4.7
162 GO-SIU2	3.4	3.4	2.8	3.9	3.3	3.7	3.3	4.7	3.7	4.7
163 South Paw	3.4	3.7	3.1	3.4	3.2	3.0	3.3	4.0	3.7	5.0
164 Bonsai	3.1	3.6	3.2	3.1	2.7	3.0	3.3	3.0	3.0	4.3
165 Kentucky-31 E+	1.2	1.2	1.2	1.1	1.2	9.0	6.0	1.7	1.3	1.3
LSD at 5% =	0.5	0.7	1.0	0.8	1.1	1.4	1.6	1.9	1.7	1.5

¹9 = best turf quality
²9 = earliest spring green-up
³9 = least disease
⁴9 = highest turf density
⁵9 = darkest green color
⁶9 = finest leaf texture

Table 3. Performance of tall fescue cultivars and selections in a turf trial established in September 2002 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2003-2005 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
1	ATL comp	6.8	6.9	6.7	6.7	5.3	7.3	7.3	7.3
2	ATM comp	6.5	6.7	6.9	6.0	7.3	7.0	7.0	7.0
3	ATE comp	6.4	6.1	6.8	6.3	5.7	6.7	7.3	6.0
4	ATN comp	6.4	6.5	6.6	6.1	5.3	6.3	7.0	5.7
5	Falcon IV	6.4	6.5	6.7	5.9	5.3	5.8	6.7	5.0
6	WAM comp	6.3	6.3	6.6	5.8	5.3	6.7	7.3	6.0
7	CIS-TF-71	6.1	6.7	5.8	5.8	3.7	5.7	5.3	6.0
8	ATC comp	6.0	6.1	6.2	5.7	5.3	5.8	6.7	5.0
9	Avenger	6.0	6.2	6.0	5.8	5.0	6.5	6.3	6.7
10	CIS-TF-60	5.9	6.2	5.7	5.8	3.3	6.0	8.0	4.0
11	Justice	5.9	6.6	5.7	5.4	5.0	5.2	6.0	4.3
12	DaVinci	5.9	6.0	5.9	5.8	3.3	5.5	6.0	5.0
13	Firebird	5.8	6.5	5.7	5.3	4.7	5.0	4.3	5.7
14	02-D FA	5.8	5.9	5.6	6.0	4.7	6.3	6.7	6.0
15	CIS-TF-72	5.8	6.3	5.6	5.6	4.7	4.7	5.0	4.3
16	Cayenne	5.8	6.0	5.8	5.6	4.7	6.0	7.0	5.0
17	WAE comp	5.8	5.6	6.1	5.5	5.3	5.2	5.7	4.7
18	CIS-TF-80	5.7	5.8	5.8	5.6	3.7	5.7	6.7	4.7
19	02-CFA	5.7	5.8	5.8	5.4	4.0	6.3	7.3	5.3
20	Biltmore	5.6	5.6	5.8	5.4	4.7	4.7	5.3	4.0
21	Guardian-21	5.6	5.6	5.5	5.6	4.7	5.0	4.7	5.3
22	02-E FA	5.5	5.9	5.6	5.2	2.3	5.8	7.0	4.7
23	FA14-AB-02	5.5	5.8	5.5	5.3	4.0	5.3	5.7	5.0
24	Titanium	5.5	5.5	5.6	5.4	4.7	5.8	5.3	6.3
25	Cochise III	5.4	6.1	5.2	4.9	4.7	4.2	5.3	3.0
26	CIS-TF-77	5.4	5.7	5.6	5.0	3.7	5.7	7.0	4.3
27	CIS-TF-93	5.4	5.3	5.7	5.2	3.3	5.8	7.3	4.3
28	Raptor	5.4	6.0	5.0	5.2	3.0	4.7	5.0	4.3
29	02-I FA	5.4	6.1	5.0	5.1	4.3	4.8	5.3	4.3
30	02-B FA	5.4	5.8	4.9	5.4	3.0	5.8	5.7	6.0
31	ATF-903	5.3	5.2	5.6	5.2	2.3	5.3	5.7	5.0
32	CIS-TF-61	5.3	5.7	5.3	5.0	2.3	4.0	5.3	2.7
33	Hounddog 6	5.3	6.2	4.8	4.9	3.3	4.2	4.7	3.7
34	02-H FA	5.3	5.0	5.3	5.6	4.3	6.8	8.0	5.7
35	SRX 8DDMPP	5.3	5.9	5.2	4.8	3.0	5.0	5.7	4.3

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2003- 2005 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
36	ATF-805	5.3	5.3	5.1	5.4	4.3	6.5	6.7	6.3
37	Constitution	5.3	5.5	5.3	5.0	4.3	5.5	6.7	4.3
38	CIS-TF-79	5.2	5.0	5.5	5.2	4.7	6.0	6.7	5.3
39	02-G FA	5.2	5.3	5.1	5.3	2.3	5.8	6.3	5.3
40	02-F FA	5.2	5.6	5.1	4.9	4.0	5.8	7.0	4.7
41	FA 34-4-02	5.2	5.4	5.3	4.9	4.0	5.3	5.3	5.3
42	ATF-909	5.2	5.3	5.3	4.9	3.3	5.7	6.3	5.0
43	ATF-896	5.2	4.8	5.8	4.9	3.3	4.8	6.0	3.7
44	Grande II	5.2	5.3	5.4	4.9	3.3	4.7	4.0	5.3
45	Tuxedo	5.2	5.4	5.2	4.9	2.3	4.8	5.7	4.0
46	FA 34-B-02	5.2	5.2	5.2	5.0	4.3	5.8	6.7	5.0
47	2nd Millennium	5.1	5.3	5.1	5.0	5.3	4.3	4.7	4.0
48	Blade Runner	5.1	5.0	5.1	5.2	4.0	5.2	5.0	5.3
49	CIS-TF-63	5.1	5.0	5.5	4.7	4.0	5.7	6.7	4.7
50	Corgi	5.1	5.3	5.0	4.9	2.0	3.8	3.7	4.0
51	ATF-901	5.1	5.2	5.0	5.0	4.0	5.5	6.3	4.7
52	Bingo	5.1	5.5	5.0	4.7	4.0	4.0	4.7	3.3
53	Masterpiece	5.1	5.0	5.2	4.9	3.7	5.2	5.7	4.7
54	Penn 1901	5.1	5.4	5.0	4.8	4.0	5.0	6.0	4.0
55	Rebel Exceeda	5.1	5.6	4.8	4.8	5.0	5.0	5.0	5.0
56	Scorpien	5.0	4.9	5.2	5.0	5.0	4.3	4.3	4.3
57	SRX 8FFT	5.0	5.5	4.8	4.8	4.0	5.3	6.0	4.7
58	SR 8550	5.0	5.6	4.7	4.8	2.3	4.3	4.3	4.3
59	Five Point	5.0	5.4	4.9	4.7	3.7	4.0	4.0	4.0
60	Pick TF B-97	5.0	5.1	5.4	4.5	5.3	3.8	4.3	3.3
61	ATF-907	5.0	4.8	5.4	4.7	3.7	4.7	6.0	3.3
62	Finelawn Elite	4.9	5.2	4.9	4.8	4.0	4.3	5.0	3.7
63	Finesse II	4.9	5.5	4.7	4.6	2.3	4.0	5.0	3.0
64	Forte	4.9	5.6	4.7	4.4	3.7	4.2	5.0	3.3
65	ATF-906	4.9	4.8	5.2	4.6	3.7	5.7	6.0	5.3
66	SR 8250	4.9	5.6	4.7	4.4	4.3	3.7	4.7	2.7
67	ATF-897	4.9	5.0	5.2	4.5	2.3	6.0	6.7	5.3
68	ATF-902	4.9	4.8	5.1	4.7	3.7	5.7	7.0	4.3
69	JT-3	4.9	5.4	4.7	4.6	3.7	3.7	4.3	3.0
70	Gazelle	4.9	5.5	4.7	4.5	3.3	3.3	3.3	3.3

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2003- 2005 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
71	ATF-899	4.9	5.1	4.9	4.6	3.3	5.0	6.0	4.0
72	Signia	4.9	5.4	4.5	4.8	2.0	4.2	4.0	4.3
73	Pick 00-AFA	4.9	5.2	4.8	4.6	3.7	5.5	6.3	4.7
74	Rendition	4.9	5.1	5.0	4.5	2.3	4.2	4.7	3.7
75	ATF-905	4.8	4.9	4.9	4.7	3.3	5.5	7.3	3.7
76	TF H-97	4.8	5.4	4.8	4.3	2.7	4.5	5.7	3.3
77	ATF-898	4.8	4.8	5.3	4.3	3.3	5.0	7.3	2.7
78	Pick TF DC-97-98	4.8	4.7	5.0	4.6	4.3	4.5	5.0	4.0
79	JT-4	4.8	5.1	4.7	4.5	4.0	3.5	4.3	2.7
80	TF E-97	4.8	4.8	4.7	4.8	3.0	5.2	5.3	5.0
81	Matador	4.8	5.0	4.5	4.7	3.0	4.5	4.3	4.7
82	Crossfire II	4.7	4.7	5.2	4.3	5.0	4.8	5.0	4.7
83	ATF-908	4.7	4.7	5.3	4.2	3.0	4.8	5.7	4.0
84	JT-2	4.6	5.1	4.7	4.0	2.7	3.2	3.7	2.7
85	00-C FA	4.6	4.7	4.6	4.5	4.7	3.8	3.7	4.0
86	SRX 8RH2	4.6	4.9	4.7	4.2	3.0	4.0	4.3	3.7
87	Pick MT3	4.6	4.7	4.5	4.6	4.3	5.2	5.3	5.0
88	Millennium	4.5	4.6	4.7	4.3	3.0	4.0	3.7	4.3
89	Shenandoah II	4.5	4.7	4.9	4.1	5.0	4.2	4.7	3.7
90	Ninja	4.5	4.7	4.5	4.4	2.3	4.2	3.7	4.7
91	Focus	4.5	5.1	4.3	4.1	4.3	4.7	6.3	3.0
92	Rebel Sentry	4.5	5.0	4.5	4.1	2.7	4.3	5.7	3.0
93	Greystone	4.4	4.6	4.7	4.0	3.3	4.2	5.7	2.7
94	Durana	4.4	4.7	4.5	4.1	4.3	4.7	4.7	4.7
95	Picasso	4.4	4.6	4.5	4.1	5.0	3.3	4.0	2.7
96	ATF-904	4.4	4.6	4.5	4.0	2.7	5.0	6.3	3.7
97	CIS-TF-92	4.4	4.5	4.6	4.0	3.7	5.2	6.3	4.0
98	DLF-209	4.4	4.4	4.3	4.4	4.3	4.7	4.3	5.0
99	Prospect	4.3	5.2	3.8	4.0	4.3	3.5	3.3	3.7
100	Arizona	4.3	4.4	4.2	4.3	3.0	4.7	5.3	4.0
101	Jaguar 3	4.3	4.0	4.7	4.2	7.0	4.5	5.7	3.3
102	TTF-O2AA	4.3	3.9	4.5	4.4	5.0	5.3	6.0	4.7
103	ATF-900	4.3	4.2	4.3	4.3	1.7	5.3	6.3	4.3
104	Crewcut II	4.3	4.2	4.4	4.2	2.3	4.5	5.0	4.0
105	DLF-210	4.2	4.4	4.0	4.1	3.7	4.5	4.7	4.3

(Continued)

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Spring Green-up ² April 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 2005
		2003- 2005 Avg.	2003 Avg.	2004 Avg.	2005 Avg.				
106	Expedition	4.2	4.4	4.2	3.9	2.7	3.3	2.3	4.3
107	Bandana	4.1	4.3	3.9	3.9	4.7	3.8	4.3	3.3
108	Bonsai 2000	4.0	3.9	4.3	3.7	4.7	5.2	5.3	5.0
109	SRX 8RH1	4.0	3.8	4.2	3.9	5.3	4.8	5.0	4.7
110	Tulsa	4.0	3.8	4.2	3.8	3.7	4.0	4.7	3.3
111	Virture	3.9	4.0	4.0	3.7	6.0	4.5	4.3	4.7
112	Finelawn Petite	3.9	4.2	3.8	3.7	5.0	4.0	4.3	3.7
113	Oncue	3.9	3.8	4.0	3.8	4.7	4.3	5.7	3.0
114	Watchdog	3.9	3.6	4.2	3.8	4.0	3.5	4.0	3.0
115	Tulsa II	3.8	3.8	3.9	3.6	4.7	3.3	3.7	3.0
116	Titan LTD	3.8	4.0	3.8	3.4	2.3	3.8	4.7	3.0
117	Regiment	3.7	3.9	3.5	3.8	4.0	3.8	4.0	3.7
118	Bonanza II	3.6	3.6	3.8	3.4	4.3	4.0	5.0	3.0
119	Duster	3.5	4.0	3.4	3.3	4.3	3.2	3.3	3.0
120	Grande	3.5	3.6	3.7	3.3	6.0	4.8	5.3	4.3
121	Mini-Mustang	3.5	3.4	3.7	3.4	6.0	4.3	4.3	4.3
122	Mustang II	3.2	3.1	3.3	3.1	6.3	4.5	5.0	4.0
123	Landmark	1.3	1.2	1.7	1.0	8.0	4.8	5.7	4.0
124	Jesup Plus	1.2	1.1	1.4	1.0	8.3	5.2	6.3	4.0
125	Kentucky-31	1.2	1.1	1.1	1.2	8.3	5.0	5.7	4.3
	LSD at 5% =	0.5	0.8	0.6	0.6	1.2	1.3	2.4	1.9

¹9 = best turf quality²9 = earliest spring green-up³9 = least disease

Table 4. Performance of tall fescue cultivars and selections in a turf trial established in September 2003 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ²	Brown Patch ²	Brown Patch ²	Red Thread ²
		2004-2005 Avg.	2004 Avg.	2005 Avg.	2005 Avg.	July 2005	Aug. 2005	June 2005
1	ATO	6.5	6.4	6.6	6.8	7.3	6.3	7.0
2	MST	6.0	5.9	6.1	6.2	6.3	6.0	7.3
3	ATF-1041	6.0	6.1	5.9	4.8	6.3	3.3	6.7
4	Falcon IV	6.0	6.2	5.7	5.3	5.3	5.3	7.7
5	Six Point	5.9	6.0	5.8	6.7	7.3	6.0	7.7
6	RAD-TF 8	5.9	5.8	5.9	5.7	6.0	5.3	5.3
7	IS-TF-94	5.8	6.0	5.6	4.5	6.0	3.0	6.7
8	Padre	5.8	5.7	5.9	6.7	6.7	6.7	7.7
9	ATF-1089	5.8	6.0	5.6	4.2	5.7	2.7	6.3
10	ATF-1092	5.8	6.1	5.5	3.3	4.0	2.7	5.3
11	IS-TF-80	5.8	5.9	5.7	4.5	4.7	4.3	6.3
12	ATF-1109	5.7	5.9	5.5	5.2	5.3	5.0	7.3
13	ATF-1093	5.7	6.1	5.3	3.3	3.3	3.3	6.7
14	Justice	5.7	5.9	5.5	5.0	6.0	4.0	7.0
15	ATF-1038	5.7	5.8	5.5	5.5	5.7	5.3	6.7
16	ATF-1108	5.6	5.6	5.6	5.3	5.0	5.7	7.7
17	RAD-TF 10	5.6	5.9	5.3	4.8	5.7	4.0	7.0
18	ATF-1096	5.6	5.7	5.4	4.0	4.3	3.7	6.7
19	IS-TF-93	5.6	5.6	5.5	4.2	5.0	3.3	6.7
20	SRX CARH2	5.6	5.7	5.4	4.5	5.3	3.7	7.7
21	ATF-1040	5.5	5.7	5.4	4.3	5.7	3.0	5.0
22	ATF-1067	5.5	5.7	5.4	5.2	5.7	4.7	7.7
23	ATF-1107	5.5	5.6	5.4	4.7	6.0	3.3	7.0
24	DaVinci	5.5	5.3	5.7	6.3	6.3	6.3	8.0
25	TF 7	5.5	5.7	5.3	5.2	5.3	5.0	6.0
26	EA 185	5.5	5.8	5.2	4.5	5.3	3.7	7.3
27	Blackwatch	5.5	5.3	5.6	5.5	5.7	5.3	7.0
28	ATF-1095	5.4	5.7	5.2	3.7	4.0	3.3	6.7
29	Cortez II	5.4	5.7	5.1	3.7	4.0	3.3	5.7
30	ATF-1088	5.4	5.9	5.0	4.0	5.0	3.0	7.3
31	RAD-TF 9	5.4	5.2	5.6	5.8	5.3	6.3	7.7
32	RAD-TF 16	5.4	5.6	5.2	4.0	4.3	3.7	7.3
33	PSW# 202	5.4	5.5	5.4	4.2	4.0	4.3	6.3
34	ATF-1036	5.4	5.7	5.1	3.8	5.3	2.3	6.0
35	TF 18	5.4	5.4	5.4	4.7	4.3	5.0	6.3

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2005 Avg.	Brown Patch ² July 2005	Brown Patch ² Aug. 2005	Red Thread ² June 2005
		2004- 2005 Avg.	2004 Avg.	2005 Avg.				
36	ATF-1080	5.4	5.7	5.1	3.7	5.0	2.3	5.7
37	ATF-1034	5.4	5.5	5.3	4.7	5.0	4.3	6.7
38	ATF-1105	5.4	5.5	5.3	3.8	4.0	3.7	5.7
39	ATF-929	5.4	5.6	5.1	4.0	5.0	3.0	7.3
40	ATF-1090	5.4	5.4	5.3	5.3	5.3	5.3	7.0
41	RAD-TF 2	5.4	5.4	5.3	4.8	5.0	4.7	8.0
42	Hounddog 6	5.3	6.3	4.4	2.7	3.3	2.0	7.3
43	Guardian-21	5.3	5.7	5.0	4.5	4.7	4.3	7.0
44	Raptor	5.3	5.6	5.0	4.3	4.7	4.0	6.0
45	ATF-1112	5.3	5.3	5.3	5.8	6.7	5.0	7.0
46	PSW# 212	5.3	5.5	5.0	4.5	5.3	3.7	6.3
47	ATF-1110	5.2	5.6	4.9	3.2	3.0	3.3	7.7
48	ATF-1111	5.2	5.6	4.8	2.8	2.7	3.0	7.0
49	SRX CABE5	5.2	5.5	5.0	4.2	4.0	4.3	7.3
50	PSW# 201	5.2	5.2	5.2	4.7	5.0	4.3	8.0
51	ATF-1100	5.2	5.5	4.9	3.0	4.3	1.7	7.3
52	PSW# 206	5.2	5.8	4.6	3.2	4.0	2.3	7.0
53	Cayenne	5.2	5.7	4.7	4.2	4.3	4.0	7.3
54	PSW# 204	5.1	5.7	4.6	3.3	4.0	2.7	6.3
55	Scorpion 2	5.1	5.3	4.9	5.2	5.7	4.7	6.3
56	SRX CABE4	5.1	5.5	4.7	2.5	2.0	3.0	5.0
57	PSW# 203	5.1	5.2	5.0	3.8	4.0	3.7	5.7
58	TF Z-96	5.1	5.3	4.9	4.8	5.3	4.3	6.3
59	ATF-1106	5.1	5.1	5.0	4.3	5.0	3.7	6.0
60	IS-TF-79 E-	5.1	5.2	4.9	4.2	4.7	3.7	6.7
61	ATF-1068	5.0	5.0	5.1	4.7	5.0	4.3	7.3
62	SRX CABE3	5.0	5.5	4.6	2.5	2.7	2.3	7.0
63	ATF-1104	5.0	5.0	5.0	4.5	5.0	4.0	6.7
64	ATF-866	5.0	4.9	5.1	4.0	4.7	3.3	6.3
65	ATF-1083	5.0	5.1	4.9	4.8	5.0	4.7	6.3
66	ATF-1091	5.0	5.1	4.9	4.2	4.3	4.0	8.3
67	Finesse II	5.0	5.2	4.7	3.3	4.0	2.7	7.0
68	ATF-1035	5.0	5.2	4.7	3.0	3.0	3.0	6.3
69	2nd Millennium	5.0	5.6	4.3	2.5	2.7	2.3	7.0
70	Sitka	5.0	5.1	4.8	3.3	4.0	2.7	6.0

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2005 Avg.	Brown Patch ² July 2005	Brown Patch ² Aug. 2005	Red Thread ² June 2005
		2004- 2005 Avg.	2004 Avg.	2005 Avg.				
71	SRX CAFT2	5.0	5.5	4.4	2.8	3.0	2.7	7.7
72	Magellan	5.0	5.2	4.7	4.3	5.7	3.0	7.3
73	ATF-1073	4.9	5.1	4.8	4.2	5.0	3.3	7.7
74	SRX 8FFT	4.9	5.5	4.3	3.0	3.3	2.7	6.0
75	SR 8550	4.9	5.2	4.7	3.3	4.0	2.7	7.7
76	PSW# 207	4.9	5.4	4.4	4.2	5.3	3.0	7.0
77	SRX CAV91	4.9	5.2	4.6	2.8	2.7	3.0	6.0
78	ATF-1070	4.9	5.4	4.4	3.0	3.3	2.7	7.3
79	ATF-1101	4.9	4.9	4.8	5.0	5.7	4.3	6.3
80	MA 184	4.9	5.1	4.6	3.8	4.3	3.3	6.3
81	ATF-1042	4.8	5.3	4.4	2.5	2.7	2.3	5.7
82	Forte	4.8	5.3	4.4	2.0	2.3	1.7	7.3
83	SRX CARH1	4.8	4.8	4.9	3.8	4.7	3.0	8.0
84	SRX CADD	4.8	5.3	4.4	2.5	2.7	2.3	7.3
85	Regiment	4.8	5.1	4.5	2.5	2.7	2.3	8.3
86	PSW# 200	4.8	5.0	4.6	4.3	4.7	4.0	8.0
87	Millennium	4.8	4.7	4.9	4.5	5.0	4.0	6.7
88	Finelawn Elite	4.8	5.5	4.1	2.3	2.7	2.0	6.3
89	ATF-1039	4.8	4.9	4.6	3.8	4.3	3.3	6.0
90	ATF-1046	4.8	5.3	4.2	3.0	3.7	2.3	5.7
91	RAD-TF 17	4.8	5.1	4.4	3.3	3.7	3.0	6.3
92	SRX CA861	4.8	5.5	4.1	1.3	1.7	1.0	7.7
93	Bingo	4.8	5.5	4.0	2.3	2.7	2.0	6.7
94	ATF-1167	4.8	5.2	4.3	3.2	3.3	3.0	5.3
95	RAD-TF 4	4.8	5.0	4.5	3.0	3.3	2.7	7.7
96	SRX CABE2	4.8	4.8	4.7	3.5	2.7	4.3	7.0
97	Riverside	4.7	5.2	4.3	2.2	3.0	1.3	7.3
98	PSW# 213	4.7	4.9	4.6	4.3	5.0	3.7	7.3
99	BAR Fa 1CR7	4.7	5.6	3.8	1.3	1.0	1.7	6.0
100	ATF-1066	4.7	5.1	4.3	3.3	4.3	2.3	8.3
101	Penn1901	4.7	5.1	4.2	2.8	3.0	2.7	7.3
102	Gremlin	4.7	5.3	4.0	2.2	2.3	2.0	6.7
103	JT-6	4.7	5.1	4.2	2.2	2.7	1.7	7.3
104	AZ1MP-3B	4.7	4.8	4.5	4.0	4.3	3.7	7.0
105	Titanium	4.7	4.5	4.8	5.2	5.3	5.0	5.7

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2005 Avg.	Brown Patch ² July 2005	Brown Patch ² Aug. 2005	Red Thread ² June 2005
		2004- 2005 Avg.	2004 Avg.	2005 Avg.				
106	ATF-1064	4.6	5.1	4.2	2.8	3.3	2.3	7.3
107	Stonewall	4.6	5.3	4.0	2.3	3.0	1.7	6.7
108	Biltmore	4.6	5.1	4.1	2.7	2.7	2.7	7.7
109	ATF-804	4.6	5.1	4.1	2.7	3.7	1.7	6.0
110	ATF-1043	4.6	4.9	4.3	2.8	3.3	2.3	6.3
111	ATF-1074	4.6	4.7	4.5	3.8	5.0	2.7	7.7
112	Scorpius	4.6	4.9	4.3	3.8	4.3	3.3	7.3
113	PSW# 205	4.6	4.9	4.4	2.8	3.3	2.3	7.0
114	FA DC-97-98	4.6	4.9	4.3	2.2	2.0	2.3	6.3
115	ATF-1075	4.6	4.7	4.5	3.8	3.7	4.0	4.3
116	ATF-1097	4.6	5.5	3.7	3.2	2.7	3.7	4.3
117	RAD-TF 6	4.6	4.6	4.6	4.7	5.0	4.3	6.3
118	BAR Fa 1005	4.6	5.5	3.7	1.5	1.7	1.3	6.7
119	PSW# 208	4.6	5.2	4.0	3.0	3.0	3.0	6.3
120	PSW# 211	4.6	5.2	4.0	2.0	2.0	2.0	6.7
121	00-BFA	4.6	5.1	4.1	2.7	3.3	2.0	7.3
122	AZ1MP-3A	4.6	4.6	4.6	4.2	3.7	4.7	6.7
123	TF FD-97	4.6	5.4	3.8	2.2	2.7	1.7	6.3
124	ATF-894	4.6	4.9	4.2	3.3	3.7	3.0	6.3
125	ATF-1102	4.6	4.6	4.6	4.2	4.7	3.7	6.7
126	Rendition	4.6	5.3	3.8	2.2	2.7	1.7	6.0
127	ATF-1076	4.5	4.6	4.4	3.2	3.0	3.3	6.7
128	ATF-1082	4.5	4.9	4.2	3.2	3.3	3.0	6.0
129	Pick ZMG	4.5	5.0	4.1	2.7	3.3	2.0	7.7
130	Coronado	4.5	4.8	4.3	3.5	3.3	3.7	7.0
131	Rebel Sentry	4.5	4.9	4.1	2.5	2.7	2.3	7.0
132	ATF-1044	4.5	5.1	3.9	1.7	2.0	1.3	7.7
133	ATF-1072	4.5	4.7	4.3	3.3	4.0	2.7	7.3
134	ATF-1078	4.5	4.5	4.5	3.2	2.7	3.7	6.7
135	Signia	4.5	5.0	4.0	1.3	1.0	1.7	8.0
136	ATF-1033	4.5	4.6	4.3	3.3	4.0	2.7	7.0
137	Quest	4.5	4.9	4.0	3.3	3.7	3.0	6.7
138	Barrington	4.5	4.8	4.1	3.0	3.0	3.0	6.0
139	ATF-1079	4.4	4.5	4.4	3.7	4.0	3.3	7.0
140	ATF-1098	4.4	4.7	4.1	3.2	3.3	3.0	6.7

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ² 2005 Avg.	Brown Patch ² July 2005	Brown Patch ² Aug. 2005	Red Thread ² June 2005
		2004- 2005 Avg.	2004 Avg.	2005 Avg.				
141	GreyStone	4.4	4.4	4.5	4.8	5.0	4.7	7.0
142	Barrera	4.4	4.8	4.0	2.8	3.3	2.3	6.7
143	TF BA-97	4.4	4.9	3.9	1.8	1.7	2.0	7.0
144	ATF-1062	4.4	4.8	4.0	2.5	3.0	2.0	7.7
145	ATF-1069	4.4	4.7	4.1	2.3	2.7	2.0	7.0
146	Tracer	4.4	4.8	4.0	2.3	2.7	2.0	6.0
147	SRX CACC2	4.4	4.8	4.0	2.7	2.7	2.7	6.3
148	ATF-1085	4.4	4.5	4.2	2.0	2.0	2.0	6.7
149	Rebel Exeda	4.3	4.9	3.7	1.0	1.0	1.0	7.3
150	SR 8250	4.3	4.9	3.8	2.0	2.0	2.0	7.0
151	SR 8600	4.3	4.9	3.8	1.3	1.7	1.0	7.7
152	ATF-1084	4.3	4.7	4.0	2.2	2.7	1.7	5.7
153	ATF-1094	4.3	4.8	3.8	3.0	3.3	2.7	4.7
154	BarLexas II	4.3	4.9	3.8	2.2	2.7	1.7	6.0
155	Shenandoah II	4.3	4.8	3.9	2.8	3.0	2.7	7.0
156	PSW# 209	4.3	4.9	3.7	2.0	2.7	1.3	7.0
157	PSW# 210	4.3	4.8	3.8	2.0	2.0	2.0	6.3
158	Grande II	4.3	4.7	3.8	2.7	3.3	2.0	6.7
159	Pick MT3	4.3	4.8	3.8	2.7	2.7	2.7	7.0
160	ATF-1045	4.3	4.6	4.0	3.2	4.0	2.3	5.3
161	Focus	4.3	4.8	3.7	1.5	1.7	1.3	7.3
162	ATF-1081	4.2	4.7	3.7	2.7	3.3	2.0	7.0
163	ATF-1086	4.2	4.6	3.8	3.0	3.3	2.7	6.0
164	ATF-1103	4.2	4.4	4.1	3.3	3.7	3.0	7.0
165	ATF-1168	4.2	4.9	3.5	2.2	2.7	1.7	5.0
166	SRX OHTF	4.2	4.3	4.1	3.7	4.3	3.0	5.0
167	ATF-1071	4.2	4.4	3.9	2.8	3.7	2.0	6.7
168	ATF-1037	4.2	4.1	4.2	3.0	2.7	3.3	7.0
169	ATF-1077	4.2	4.5	3.8	3.2	3.3	3.0	6.3
170	Tulsa II	4.1	4.5	3.8	3.5	3.7	3.3	6.0
171	Rembrandt	4.1	4.7	3.6	1.8	2.3	1.3	7.0
172	SRX CAFT1	4.1	4.6	3.6	1.7	1.7	1.7	7.3
173	ATF-1087	4.1	4.7	3.5	2.3	2.7	2.0	6.0
174	SRX RHI	4.1	4.1	4.0	2.5	2.3	2.7	6.3
175	Five Point	4.0	4.7	3.4	2.3	2.7	2.0	6.7

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Brown Patch ²	Brown Patch ²	Brown Patch ²	Red Thread ²
		2004-2005 Avg.	2004 Avg.	2005 Avg.	2005 Avg.	July 2005	Aug. 2005	June 2005
176	SRX RH2	4.0	4.6	3.5	2.7	3.7	1.7	4.7
177	Crossfire II	4.0	4.3	3.7	2.3	2.7	2.0	6.7
178	ATF-1099	4.0	4.5	3.5	1.8	2.0	1.7	6.3
179	BAR Fa 1003	4.0	4.2	3.7	2.5	2.7	2.3	7.7
180	Crewcut II	3.9	4.1	3.8	2.8	2.3	3.3	6.0
181	SRX CABE1	3.9	4.1	3.8	2.7	2.3	3.0	6.7
182	Watchdog	3.9	4.3	3.5	2.0	2.3	1.7	6.7
183	Renegade II	3.9	4.5	3.3	2.2	2.7	1.7	6.7
184	Gazelle	3.9	4.4	3.4	1.5	1.3	1.7	7.0
185	Dynasty	3.9	4.4	3.4	1.8	2.0	1.7	5.7
186	DTF	3.9	4.4	3.3	1.3	1.0	1.7	6.0
187	Arizona	3.8	4.2	3.4	1.2	1.3	1.0	6.7
188	BAR Fa 1020	3.6	3.7	3.5	2.5	3.3	1.7	7.0
189	Tulsa	3.5	3.7	3.3	2.7	2.7	2.7	6.3
190	Pick BWI-02	3.5	3.3	3.8	2.3	2.7	2.0	7.0
191	BAR Fa 1002	3.5	3.5	3.5	2.2	3.0	1.3	7.0
192	Falcon III	3.5	3.8	3.2	3.0	3.0	3.0	7.0
193	Jaguar 3	3.4	3.6	3.2	2.2	2.3	2.0	7.3
194	Titan Ltd	3.3	3.4	3.1	2.0	2.0	2.0	6.7
195	Bonanza II	3.3	3.5	3.0	1.7	1.7	1.7	6.3
196	Grande	3.1	3.3	2.9	2.2	2.3	2.0	7.0
197	Regiment	2.9	2.8	2.9	1.7	1.7	1.7	5.3
198	Ky-31	1.2	1.1	1.3	2.5	2.3	2.7	5.7
199	South East	1.1	1.1	1.1	3.7	3.7	3.7	5.7
	LSD at 5% =	0.5	0.6	0.6	1.2	1.8	1.5	2.0

¹9 = best turf quality²9 = least disease

Table 5. Performance of tall fescue cultivars and selections in a turf trial established in September 2004 at Adelphia, NJ.

	Cultivar or Selection	Turf Quality ¹ 2005 Avg.	Emergence ² 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 19 2005	Brown Patch ³ Aug. 26 2005
1	WT Comp	6.6	5.3	6.8	6.3	7.3	6.7
2	Firenza	6.0	5.7	6.8	6.0	7.3	7.0
3	03-12 TF#8	5.9	3.0	4.2	5.3	3.3	4.0
4	IS-TF 80	5.8	5.0	6.2	6.7	6.3	5.7
5	RP3 Comp	5.8	4.7	7.2	8.0	7.7	6.0
6	CR3 Comp	5.8	4.7	7.0	7.3	7.0	6.7
7	ATF-1233	5.7	4.7	5.9	6.3	5.7	5.7
8	BT1 Comp	5.7	4.7	6.4	6.3	7.0	6.0
9	ATF-1223	5.6	4.7	5.0	6.7	4.3	4.0
10	ATF-1235	5.6	5.3	4.7	5.3	4.7	4.0
11	RAD-TF8	5.6	4.3	6.9	7.7	7.0	6.0
12	ATF-1232	5.6	5.0	6.0	7.0	6.3	4.7
13	ATF-1201	5.6	3.7	5.0	7.7	4.3	3.0
14	IS-TF 118	5.5	4.3	5.4	7.7	4.7	4.0
15	PST-SYN-5L13-04	5.5	4.7	6.0	7.0	5.7	5.3
16	ATF-1203	5.5	5.0	6.0	6.7	5.7	5.7
17	Six Point	5.5	6.7	7.7	8.7	7.3	7.0
18	Constitution	5.5	5.3	5.7	6.7	5.0	5.3
19	CR2 Comp	5.5	6.0	6.6	7.7	6.7	5.3
20	RP2 Comp	5.5	4.7	6.9	7.0	7.3	6.3
21	03-12 TF#6	5.4	3.3	5.0	5.0	5.0	5.0
22	Escalade	5.4	5.3	6.9	7.7	7.0	6.0
23	CR1 Comp	5.4	4.7	5.8	6.0	5.3	6.0
24	ATF-1224	5.4	6.3	5.7	6.3	5.7	5.0
25	ATF-1226	5.4	4.7	4.7	6.3	4.3	3.3
26	Falcon IV	5.4	4.7	5.6	6.7	5.3	4.7
27	Inferno	5.4	5.3	4.9	6.7	4.3	3.7
28	PST-5TDH-04	5.3	4.3	5.8	7.0	5.7	4.7
29	ATF-1231	5.3	4.7	4.2	6.7	3.3	2.7
30	Gremlin	5.3	4.3	5.1	6.0	4.7	4.7
31	PT1 Comp	5.3	4.7	5.6	6.7	5.7	4.3
32	04-2 FA	5.3	3.0	5.1	6.3	4.3	4.7
33	03-12 TF Bulk	5.3	3.7	4.6	5.3	4.7	3.7
34	IS-TF 114	5.3	3.7	5.1	5.3	5.0	5.0
35	Raptor	5.3	4.0	4.7	6.3	4.0	3.7

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2005 Avg.	Emergence ² 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 19 2005	Brown Patch ³ Aug. 26 2005
36	PST-SYN-5M25	5.2	5.0	5.1	6.0	5.0	4.3
37	PST-5BAB	5.2	4.7	4.8	5.3	4.7	4.3
38	03-12 TF#1	5.2	3.3	4.2	6.3	3.3	3.0
39	IS-TF 94	5.2	5.0	5.2	6.7	5.3	3.7
40	Padre	5.2	5.0	4.8	5.0	4.7	4.7
41	BT2 Comp	5.2	4.3	6.9	7.3	7.0	6.3
42	ATF-1227	5.1	4.7	5.7	6.7	5.3	5.0
43	04-4 FA	5.1	3.0	3.9	6.0	3.0	2.7
44	03-2 TF#5	5.1	3.7	4.3	5.3	4.0	3.7
45	03-5 TF Bulk	5.1	3.0	5.4	6.7	5.0	4.7
46	Matador GT	5.1	5.7	5.2	6.3	5.0	4.3
47	PST-SYN	5.1	4.0	7.3	7.7	7.0	7.3
48	Blade Runner	5.1	5.3	4.1	5.0	3.7	3.7
49	ATF-1236	5.0	5.3	4.7	5.7	4.3	4.0
50	03-12 TF#2	5.0	3.3	3.9	6.0	2.7	3.0
51	Cortez II	5.0	4.3	4.9	5.3	4.3	5.0
52	ATF-1234	5.0	5.0	5.4	6.7	4.7	5.0
53	Finelawn Elite	5.0	5.7	4.9	6.0	4.3	4.3
54	SR 8550	5.0	4.7	4.3	5.0	4.3	3.7
55	04-6 FA	4.9	3.0	4.3	5.7	3.7	3.7
56	RAD-TF16	4.9	4.7	5.1	7.0	4.7	3.7
57	Grande II	4.9	5.0	4.6	6.3	4.0	3.3
58	RAD-TF6	4.9	4.0	5.4	5.7	6.0	4.7
59	Silverado II	4.9	6.3	5.6	7.0	5.7	4.0
60	04-5 FA	4.9	3.0	4.3	5.0	4.0	4.0
61	Riverside	4.9	5.0	4.9	6.0	4.7	4.0
62	03-6 TF Bulk	4.8	4.0	4.7	6.7	4.0	3.3
63	03-2 TF Bulk	4.8	3.0	4.9	6.3	4.3	4.0
64	RAD-TF22	4.8	4.3	6.0	6.7	6.0	5.3
65	Titanium	4.8	4.7	6.0	8.3	5.7	4.0
66	PST-SYN-5D25	4.8	3.3	5.6	6.0	5.3	5.3
67	PST-SYN-5DVD	4.8	4.3	5.2	4.7	5.7	5.3
68	Shenandoah II	4.8	6.0	4.0	4.0	4.3	3.7
69	Picasso	4.8	3.7	4.1	5.0	3.7	3.7
70	Cochise III	4.8	5.3	4.1	6.0	3.0	3.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2005 Avg.	Emergence ² 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 19 2005	Brown Patch ³ Aug. 26 2005
71	03-9 TF#4	4.8	3.7	3.9	6.0	3.3	2.3
72	03-12 TF#4	4.8	3.3	3.9	5.3	3.0	3.3
73	Magellan	4.8	4.7	4.1	4.7	3.7	4.0
74	PST-SYN-5T25	4.7	4.0	5.3	6.3	5.3	4.3
75	PST-5BRO	4.7	4.3	6.4	7.3	6.7	5.3
76	Blackwatch	4.7	6.3	3.8	4.0	3.0	4.3
77	03-11 TF Bulk	4.7	3.3	4.6	5.0	4.3	4.3
78	03-9 TF Bulk	4.7	3.0	4.1	6.3	3.3	2.7
79	Five Point	4.7	4.7	4.2	4.3	4.0	4.3
80	RAD-TF10	4.7	3.3	5.6	6.3	6.0	4.3
81	PST-SYN-5BIL	4.7	3.7	5.8	6.0	5.7	5.7
82	PST-5V4 BS	4.7	4.3	5.6	5.7	6.0	5.0
83	Cayenne	4.7	4.3	4.8	5.0	4.7	4.7
84	03-12 TF#9	4.7	3.0	4.3	5.0	4.3	3.7
85	03-12 TF#5	4.7	2.7	4.7	6.0	3.7	4.3
86	03-5 TF#6	4.7	3.3	4.4	6.0	4.3	3.0
87	RAD-TF9	4.7	3.3	6.6	7.7	6.7	5.3
88	RAD-TF17	4.7	3.3	4.8	5.7	5.0	3.7
89	Silverstar	4.7	5.7	4.3	5.0	4.0	4.0
90	PST-SYN-5SIS	4.7	5.7	5.9	6.7	5.7	5.3
91	Gazelle	4.7	5.7	3.3	4.0	2.7	3.3
92	RAD-TF23	4.7	5.0	5.7	6.7	6.3	4.0
93	Rendition	4.7	3.7	4.0	5.0	3.3	3.7
94	Bingo	4.6	5.7	4.6	5.0	4.7	4.0
95	NAT-04M	4.6	2.7	5.6	6.7	5.0	5.0
96	Avenger	4.6	4.7	5.3	6.0	5.3	4.7
97	04-1 FA	4.6	3.0	3.7	6.0	2.7	2.3
98	04-7 FA	4.6	3.0	3.6	3.7	3.0	4.0
99	03-2 TF#6	4.6	2.3	5.4	6.7	4.7	5.0
100	RAD-TF21	4.6	4.7	4.0	6.0	3.7	2.3
101	04-Walk	4.6	3.3	5.0	5.7	4.7	4.7
102	03-5 TF#5	4.6	3.3	3.7	5.3	3.0	2.7
103	Justice	4.6	6.3	5.6	6.3	6.0	4.3
104	Scorpion	4.6	4.7	4.2	5.7	3.7	3.3
105	IS-TF 93	4.6	5.3	3.7	4.7	3.0	3.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2005 Avg.	Emergence ² 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 19 2005	Brown Patch ³ Aug. 26 2005
106	PST-5S12-BS	4.5	4.7	5.7	6.3	5.3	5.3
107	Tarheel	4.5	6.3	5.1	6.0	4.3	5.0
108	03-9 TF#3	4.5	3.0	4.7	5.0	4.0	5.0
109	03-2 TF#1	4.5	3.7	5.9	7.3	5.3	5.0
110	Regiment II	4.5	4.7	4.3	5.0	4.0	4.0
111	03-1 TF Bulk	4.5	3.3	4.3	6.0	3.7	3.3
112	03-7 TF Bulk	4.5	3.0	4.6	3.7	5.0	5.0
113	Rembrandt	4.5	4.3	5.3	6.0	5.3	4.7
114	PST-SYN-5SLT-04	4.5	4.3	5.4	6.3	5.0	5.0
115	03-4 TF Bulk	4.5	4.0	4.6	5.7	4.0	4.0
116	SR 8600	4.5	5.7	4.3	5.7	3.7	3.7
117	Guardian 21	4.4	5.3	4.4	5.3	3.7	4.3
118	Arid 3	4.4	5.7	3.9	5.3	3.3	3.0
119	2nd Millenium	4.4	6.0	3.8	4.7	3.3	3.3
120	PST-SYN-5TK04	4.4	2.3	4.3	5.0	4.0	4.0
121	PST-55 HZ	4.4	3.3	4.8	6.0	4.3	4.0
122	03-9 TF#2	4.4	3.3	3.8	5.3	3.0	3.0
123	Quest	4.4	5.3	3.7	4.7	3.0	3.3
124	DaVinci	4.4	5.3	5.1	6.3	4.3	4.7
125	03-9 TF#1	4.3	3.0	4.7	5.3	4.3	4.3
126	03-9 TF#5	4.3	2.7	3.4	4.3	3.0	3.0
127	Stonewall	4.3	6.0	4.0	4.7	3.7	3.7
128	Arid II	4.3	5.3	3.6	4.3	3.3	3.0
129	04-Dust	4.3	3.0	4.2	4.0	4.0	4.7
130	03-7 TF#1	4.2	2.3	3.6	5.3	2.3	3.0
131	03-9 TF#6	4.2	3.3	4.1	5.7	3.0	3.7
132	Mustang 3	4.2	3.0	4.4	4.7	4.3	4.3
133	03-7 TF#4	4.2	3.3	3.7	4.3	3.3	3.3
134	Renrgade II	4.2	5.0	3.6	3.3	4.0	3.3
135	Crewcut II	4.2	3.0	3.9	4.3	3.3	4.0
136	PST-SYN-5JR4	4.1	3.3	5.3	6.0	5.0	5.0
137	Wolfpack	4.1	7.0	5.3	6.3	5.3	4.3
138	03-7 TF#2	4.0	2.3	3.7	4.0	3.3	3.7
139	Masterpiece	4.0	6.7	3.6	4.3	3.0	3.3
140	Biltmore	4.0	2.0	4.4	4.7	4.3	4.3

(Continued)

Table 5 (continued).

	Cultivar or Selection	Turf Quality ¹ 2005 Avg.	Emergence ² 2005	Brown Patch ³ 2005 Avg.	Brown Patch ³ July 2005	Brown Patch ³ Aug. 19 2005	Brown Patch ³ Aug. 26 2005
141	FE-JD 41103	4.0	6.3	4.4	5.3	4.7	3.3
142	FE-JD 34103	4.0	5.3	4.8	5.7	4.3	4.3
143	Dynasty	4.0	5.7	4.0	5.3	3.7	3.0
144	Sunpro	4.0	2.7	3.9	4.0	3.7	4.0
145	Ninja II	4.0	5.7	4.4	5.7	4.0	3.7
146	Trooper	4.0	5.3	4.1	5.3	3.0	4.0
147	PST-SYN-5RIL	3.9	3.7	5.1	5.3	5.3	4.7
148	PST-SYN-5 TK3	3.8	2.3	4.8	4.3	5.3	4.7
149	Tulsa III	3.8	5.0	3.8	4.7	3.3	3.3
150	Expedition	3.7	5.7	3.0	3.7	2.7	2.7
151	Falcon III	3.7	4.3	3.7	4.3	3.0	3.7
152	Alamo	3.7	5.0	3.7	4.3	3.3	3.3
153	Mini-Mustang	3.6	4.3	4.0	5.0	3.7	3.3
154	SR 8500	3.6	5.0	3.7	4.7	3.0	3.3
155	03-7 TF#5	3.6	2.3	3.2	4.0	2.7	3.0
156	03-7 TF#3	3.5	2.7	3.4	3.3	2.7	4.3
157	Jaguar 3	3.5	5.0	3.8	3.3	4.3	3.7
158	Pixie	3.5	6.0	3.8	4.3	3.7	3.3
159	FE-JD 3104	3.4	5.7	4.6	5.7	4.7	3.3
160	Titan LTD	3.3	6.0	3.7	5.7	2.7	2.7
161	Grande	3.1	7.0	3.8	5.0	3.3	3.0
162	Mustang II	2.9	6.0	3.2	5.3	2.0	2.3
163	Tulsa	2.8	1.7	3.8	5.0	3.7	2.7
164	Southeast	1.4	8.0	5.2	7.7	4.7	3.3
165	Ky-31	1.3	5.3	4.2	6.0	3.3	3.3
	LSD at 5% =	0.7	1.0	1.3	1.9	1.5	1.9

¹9 = best turf quality²9 = best seedling emergence³9 = least disease

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

	2002		2003		2004		2005	
	N ¹	Ht ²	N	Ht	N	Ht	N	Ht
Table 1 (2001 Adelphia, NTEP)	2.0	1.5	2.8	1.5	2.3	1.5	2.3	1.5
Table 2 (2001 North Brunswick, NTEP)	4.1	1.5	1.3	1.5	1.8	1.5	1.8	1.5
Table 3 (2002 Adelphia)			3.0	1.5	3.0	1.5	3.0	1.5
Table 4 (2003 Adelphia)					3.8	1.5	3.0	1.5
Table 5 (2004 Adelphia)							2.3	1.5

¹ Annual N applied (lb/1000 ft²)

² Mowing height in inches