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# 1997 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 University 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. Articles appearing in these proceedings are divided into two sections.

The first section (white pages) includes lecture notes of papers presented at the 1997 New Jersey Turfgrass Expo. Publication of the New Jersey Turfgrass Expo Notes provides a readily

available source of information covering a wide range of topics. The Expo Notes include technical and popular presentations of importance to the turfgrass industry.

The second section (green pages) includes technical research papers containing original research findings and reviews covering selected subjects in turfgrass science. The primary objective of these papers is to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

Special thanks are given to those who have submitted papers for this proceedings, to the New Jersey Turfgrass Association for financial assistance, and to those individuals who have provided support to the Rutgers Turf Research Program at Cook College - Rutgers, The State University of New Jersey.

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

# PERFORMANCE OF KENTUCKY BLUEGRASS CULTIVARS AND SELECTIONS IN NEW JERSEY TURF TRIALS

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Kentucky bluegrass (*Poa pratensis* L.) has an extensive rhizome system that can develop a dense, durable, and attractive sod. It is adapted to a wide range of soils and climates, and as a result, is used extensively for soil stabilization and conservation, forage, and turf. Many acres of excessively tilled and severely eroded soils have been stabilized and restored to attractive lawns and productive pastures by this rhizomatous grass. Kentucky bluegrass is utilized on more than 35 million acres of pastures in the northeastern and northcentral United States, as well as large areas of Canada and Europe. Kentucky bluegrass is considered a premier lawn grass, contributing to the turf of over 40 million lawns throughout the subarctic, temperate, and subtropical (high altitude) climates of the United States.

There are two main uses for Kentucky bluegrass: forage and conservation, and specialized turf. Common-type Kentucky bluegrasses are widely used for soil conservation, pastures, and lower maintenance turf. Common types have the erect narrow leaves typical of plants predominating in old pastures and low maintenance lawns. Early maturity, good stress tolerance, and the ability to survive dry summers in a dormant state are some general characteristics of common-type Kentucky bluegrasses. Turf-type Kentucky bluegrasses have a lower, more prostrate growth habit, respond well to higher maintenance regimes, tolerate closer mowing, and have greater resistance to leaf spot disease (*Drechslera* and *Bipolaris* spp.) than common types.

Kentucky bluegrass is an apomictic species that has a broad range of genetic variation and adapts to many different environments. Although apomixis presents a challenge to breeders attempting to improve Kentucky bluegrass, it provides the opportunity to produce true-to-type seed from superior genotypes. Methods of cultivar development used with Kentucky bluegrass may include i) selection of naturalized ecotypes; ii) selection of single, highly apomictic plants from old pastures or turfs; iii) blending of single apomictic progenies; and iv) selection of single, highly apomictic plants from breeding programs using intraspecific or interspecific hybridization.

The Kentucky bluegrass improvement program at Rutgers involves extensive field evaluation of collections and new material developed in the breeding program as well as the evaluation of cultivars or selections developed by other breeders. Additionally, the turfgrass research program at Rutgers participates in the National Turfgrass Evaluation Program (NTEP) which is sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, INC.

## PROCEDURES

### Turf Evaluation Trials

Ten trials were seeded in September or October between 1993 and 1996 at North Brunswick or Adelphia, New Jersey (Tables 1 to 10). Two low maintenance tests were located at Adelphia (Tables 4 and 8) and one at North Brunswick (Table 7). The other tests were con-

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ducted under medium-high maintenance regimes. Two of the tests contained all the entries from the NTEP sponsored 1995 National Kentucky Bluegrass Medium-High Maintenance Trial (Tables 5 and 6), and two other tests contained all the entries from the NTEP sponsored 1995 National Kentucky Bluegrass Low Maintenance Trial (Tables 7 and 8). The soils at the two research farms are moderately fertile and fairly well drained.

Entries in each test were sown by hand using a maximum of 0.53 oz of seed per 3 X 5 ft plot (2.2 lbs/1000 ft<sup>2</sup>), except for the test seeded in 1995 at North Brunswick (Table 5) which utilized 4 X 6 ft plots. An unplanted six-inch border was left around each plot. Each test was arranged in a randomized complete block design with three replications. Annual nitrogen (N) applied and mowing heights for each test are presented in Table 12. The amount of N applied varied between tests to permit the evaluation of characteristics known to respond to N level. No single nitrogen application exceeded 1.0 lb/1000 ft<sup>2</sup>. Mowing was frequent enough to avoid excessive defoliation and accumulation of clippings (two or three times per week during active growth). Reel mowers were used to maintain a 1.5 or 2 inch height of cut, whereas rotary mowers were employed at a higher cut.

After establishment, summer annual weeds were controlled by a spring application of DCPA or bensulide, and broadleaf weeds were controlled by a spring and/or autumn application of 2,4-D and dicamba. No other pesticides were applied. Soil pH was normally maintained between 6.0 and 6.5 with agricultural limestone. Tests were irrigated during establishment and also when needed to avoid severe drought stress. The low maintenance tests (Tables 4, 7, and 8) were irrigated only during establishment.

All tests were rated frequently throughout the growing season for turf quality (color, leaf texture, density, uniformity, and amount of disease and insect damage). Other characteristics were evaluated separately on some tests when differences between entries were apparent. These

characteristics included spring green-up (Tables 1 to 8), stripe smut disease (Table 3), leaf spot disease (Tables 2, 4 to 6, and 8), genetic color (Tables 5, 6, 9, and 10), leaf texture (Table 5 and 7), steminess (Table 6), percent green turf cover (Tables 5, 6, and 8), heat and drought tolerance (Table 6), emergence (Table 9), and establishment (Table 10). All ratings were based on a 1 to 9 scale, where 9 represented the most favorable turf quality or desirable turf characteristic. Ratings were scored by more than one person on many occasions to reduce individual preferences toward a particular trait.

### **Powdery mildew evaluation**

During the winter of 1996-1997, 103 entries from the NTEP sponsored 1995 National Kentucky Bluegrass Medium-High Maintenance Trial were established under greenhouse conditions to evaluate powdery mildew (*Erysiphe graminis*) susceptibility in Kentucky bluegrass (Table 11). Seed from each entry was lightly seeded into 3 X 3 inch square pots, arranged in a randomized complete block design with three replications, and fertilized with a complete water soluble fertilizer (20-20-20) during the period of establishment. Plants were inoculated with the powdery mildew fungus, and at the first sign of disease were watered at the base of the plant to minimize spread. Seedlings were rated for degree of powdery mildew on a 1 to 9 scale, where 9 represented the least disease (Table 11).

## **RESULTS**

### **Turf evaluation trials**

Results of the ten turf quality trials are presented in Tables 1 through 10. Entries in each table are ranked according to their overall (multi-year) quality average. Additional characteristics observed in various tests (i.e., spring green-up, leaf spot disease, genetic color, leaf texture, steminess, percent green turf cover, heat and drought tolerance, emergence, and establishment) are discussed below.

**Spring green-up.** This trait is obvious during late winter or early spring and reflects the wide range of genetic diversity present among

the genotypes of Kentucky bluegrass (Tables 1 to 8). Many cultivars or selections in the evaluation trials are adapted to New Jersey and the mid-Atlantic region (37°N to 42°N latitude). Compared to the high latitudes and cool climates of Scandinavia (60°N latitude), the mid-Atlantic region is characterized by shorter days and warmer temperatures during the growing season. Due to an increase in leaf elongation that occurs in response to increases in temperature and daylength (Parsons and Robson, 1980), cultivars adapted to this region may green up earlier in the spring. Other cultivars and selections adapted to higher latitudes may need a more dramatic change in daylength before spring growth is initiated.

**Leaf spot disease.** Leaf spot, caused by *Drechslera* and *Bipolaris* spp., is a foliar disease that affects Kentucky bluegrass most dramatically in the spring of the year during cloudy and wet weather. Differences in tolerance to this disease were evident among many of the cultivars and selections tested (Tables 2, 4 to 6, and 8). Leaf spot disease is often associated with plants that have low levels of carbohydrate in the leaf tissue. Some cultivars with early spring green-up (increased shoot elongation) may lose carbohydrates through mowing, and are thus more susceptible to leaf spot (Smiley, 1992). Other cultivars or selections that do not actively elongate during the spring do not lose carbohydrates during mowing and, as a result, may have increased resistance to leaf spot.

**Genetic color.** Genetic color is one readily observed characteristic of Kentucky bluegrass that demonstrates the broad genetic diversity that exists within the species. Many professional sod growers, landscapers, and consumers are interested in the intensity of a cultivar's green color during the growing season (Tables 9 and 10) or in the retention of its green color during the winter months (Tables 5, 6, 9, and 10).

**Leaf texture.** Leaf texture ratings reflect the width of the leaf blade in a turf (Tables 5 and 7). This is another readily visible characteristic that reflects the broad genetic variation among culti-

vars and selections of Kentucky bluegrass. As shoot density increases, increased competition reduces the leaf blade width (i.e., the leaf texture becomes finer). Thus, factors that affect the shoot density of a turf, such as management strategies, pests, and environmental conditions, also affect leaf texture.

**Steminess.** Steminess is prevalent in spring when some cultivars and selections of Kentucky bluegrass produce easily visible panicles and seed heads when closely mowed (Table 6). Cultivars with a large number of reproductive tillers generally exhibit this characteristic which detracts from turf quality in the late spring.

**Heat and drought tolerance.** Kentucky bluegrass cultivars and selections show a wide range of tolerance to heat and drought stress (Table 6). Genotypes adapted to the Mid-Atlantic region characteristically have better heat and drought tolerance under field conditions in New Jersey than selections adapted to more northern latitudes. The differences in morphological and summer stress resistance characteristics observed in Kentucky bluegrass may be an expression of adaptive characteristics that developed in response to the physical environment in which these varieties evolved (Hay and Pedersen, 1986).

**Emergence and establishment.** Rapid seedling emergence and establishment (i.e., seedling vigor) is important to consumers, sod growers, and other turf professionals who establish Kentucky bluegrass turfs from seed (Tables 9 and 10). Seedling vigor can be influenced by factors such as genetics, seed quality, the environment, management practices, and after-ripening dormancy. Freshly harvested seed often possess a dormancy factor that delays the germination of the seed under conditions of warm days and warm nights. This dormancy is gradually broken during storage at warm temperatures and is less pronounced if germination occurs during cool nights with frequent rainfall. Thus, plantings that utilize recently harvested seed lots that exhibit low seedling vigor during warm days and warm nights

may be exhibiting varying degrees of after-ripening dormancy rather than genetic differences between varieties.

### **Powdery mildew evaluation**

Powdery mildew is a foliar disease caused by the fungus *Erysiphe graminis*. This organism is biotrophic and lives its entire life on living tissue. In the greenhouse, powdery mildew is prevalent under cool, moist conditions. In the field, the disease is most common when the humidity is high and the days are cool and cloudy.

There was a wide range of resistance to powdery mildew among the Kentucky bluegrass cultivars and selections studied (Table 11). Unique, Connie, Baruzo, and LKB-95 showed excellent resistance to powdery mildew. Limousine, Med-1580, and Ascot were moderately susceptible, whereas Midnight, Classic, ZPS-2572, and Award were extremely susceptible to this disease.

### **SUMMARY**

Kentucky bluegrass is grown for many uses under a diverse range of soil, environmental, and management conditions. As a result, there is a demand for cultivars that produce a durable, high quality turf for an assortment of uses under a broad range of conditions. Improved resistance to important disease and insect pests, heat, drought, close mowing, shade, and wear is needed in cultivars that are expected to perform well in many situations.

### **ACKNOWLEDGMENTS**

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Table 1. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in October 1993 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>4</sup> March 1997
		1995-1997 Avg. <sup>2</sup>	1994 Avg. <sup>3</sup>	1995 Avg.	1996 Avg.	1997 Avg.	
1	A85-301	6.8	6.4	6.9	6.7	6.6	2.3
2	A83-876	6.7	7.2	6.8	6.8	6.5	4.7
3	A91-706	6.7	7.4	6.7	6.8	6.8	3.7
4	Ram I	6.6	7.6	6.3	6.9	6.6	4.7
5	Midnight	6.4	6.3	6.9	6.6	5.6	1.7
6	Glade	6.3	6.1	6.5	6.0	6.4	2.7
7	A88-90	6.3	5.7	6.6	5.8	6.5	5.7
8	Wildwood	6.1	5.2	6.7	5.5	6.1	3.0
9	Princeton P-105	5.9	5.2	6.0	5.6	6.0	2.1
10	Princeton 104	5.9	4.9	6.0	5.6	6.0	6.3
11	Julia	5.9	5.8	6.0	5.9	5.8	3.3
12	J-308	5.8	6.0	6.2	5.5	5.7	4.7
13	Washington	5.8	5.9	5.7	5.5	6.2	3.7
14	Eclipse	5.8	5.3	5.8	5.7	6.0	4.0
15	A91-507	5.7	5.0	5.4	5.4	6.2	3.7
16	C-74	5.6	7.4	5.7	5.5	5.6	3.7
17	SRX 2109	5.6	5.7	5.8	5.9	5.6	4.5
18	NuStar	5.6	5.3	6.0	5.0	5.7	2.0
19	H90-1149	5.4	7.3	5.7	5.3	5.2	5.0
20	Champagne	5.4	7.6	4.8	5.7	5.7	5.0
21	A84-619	5.4	4.7	5.6	5.0	5.8	1.7
22	J-327	5.3	5.0	5.8	5.2	5.0	4.3
23	J-303	5.3	5.2	5.8	4.7	5.3	5.0
24	Plush	5.3	5.3	5.6	5.0	5.3	4.0
25	Rita	5.2	7.0	5.1	5.2	5.4	4.2
26	Belturf	5.2	5.6	5.0	5.1	5.7	2.7
27	Adelphi	5.1	5.5	5.2	4.9	5.2	4.9
28	Amazon	5.1	4.9	5.0	4.9	5.2	3.3
29	Limousine	5.1	4.0	5.9	4.7	4.8	4.0
30	Cheri	5.0	4.6	4.6	5.1	5.5	3.0

(Continued)

Table 1 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>4</sup> March 1997
		1995-1997 Avg. <sup>2</sup>	1994 Avg. <sup>3</sup>	1995 Avg.	1996 Avg.	1997 Avg.	
31	Freedom	4.9	5.6	4.9	5.1	4.6	5.7
32	H86-190	4.9	6.6	5.0	4.7	4.9	3.3
33	Penn Pro	4.9	3.4	5.0	5.2	4.4	5.0
34	Classic	4.8	7.0	5.4	4.6	4.4	6.0
35	H87-104	4.8	6.8	5.0	4.7	4.7	7.0
36	Dragon	4.8	5.9	5.6	4.8	3.9	4.4
37	Shamrock	4.8	5.9	4.9	4.8	4.7	4.2
38	Fylking	4.7	6.2	4.8	4.9	4.4	5.3
39	Suffolk	4.7	5.3	4.4	4.9	4.6	6.0
40	A82-1272	4.7	7.0	4.5	4.6	5.1	5.0
41	Trenton	4.7	5.6	4.9	4.9	4.3	5.7
42	A84-591	4.7	4.7	4.4	4.4	5.3	4.0
43	Apex	4.7	5.4	4.7	4.4	4.8	3.3
44	Belmont	4.7	3.2	5.1	4.6	4.4	2.7
45	Nassau	4.6	6.8	4.4	4.5	4.8	3.7
46	Huntsville	4.6	3.8	4.3	4.5	4.9	5.0
47	Rugby	4.5	5.1	4.7	4.6	4.3	4.7
48	NuBlue	4.5	4.6	5.1	4.4	3.9	4.0
49	1757	4.5	5.2	4.6	4.7	4.2	5.3
50	Wabash	4.5	3.3	4.1	4.4	5.1	5.3
51	Sydsport	4.4	3.8	4.2	4.2	4.9	2.0
52	Merion	4.4	3.0	5.2	4.0	4.0	6.0
53	Georgetown	4.3	4.2	4.3	4.3	4.3	4.7
54	S-21	4.3	3.0	4.6	3.8	4.4	7.0
55	Pomeroy	4.1	3.7	4.1	3.5	4.6	6.7
56	Baron	3.8	4.0	4.8	3.3	3.4	3.3
	LSD at 5% =	0.8	--- <sup>3</sup>	1.0	1.0	0.9	1.4

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

<sup>2</sup>Total quality average does not include 1994 quality average.

<sup>3</sup>Quality average for 1994 includes only one replication.

<sup>4</sup>9 = earliest spring green-up



Table 2. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1994 at Adelphia, NJ. (High Maintenance Test.)

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 1997	Leaf Spot <sup>3</sup> April 1997
		1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
1	Midnight	7.2	7.0	7.9	6.7	1.3	5.3
2	Wildwood	6.7	7.1	7.2	5.9	2.7	6.0
3	ZPS-2183	6.6	6.5	7.0	6.3	4.5	6.2
4	Princeton P-105	6.6	6.5	7.1	6.1	3.2	5.3
5	SR 2109	6.5	6.2	6.8	6.7	5.0	7.7
6	Unique	6.4	6.8	6.3	6.0	4.7	5.5
7	A91-706	6.4	6.1	7.2	5.9	3.3	5.0
8	C-74	6.3	6.6	6.4	5.9	4.3	5.3
9	America	6.3	7.0	6.0	5.8	5.3	6.3
10	Blacksburg	6.2	6.7	7.0	5.1	3.7	7.3
11	A91-630	6.2	5.6	6.5	6.3	6.0	6.0
12	H90-1149	6.2	6.5	6.0	5.9	4.7	6.0
13	A83-876	6.1	6.6	6.0	5.6	4.7	6.7
14	Aspen	6.1	5.6	6.3	6.2	6.0	6.3
15	H86-697	6.0	6.2	5.9	6.0	5.3	7.3
16	Apex	6.0	6.1	6.7	5.4	1.3	6.7
17	A91-624	6.0	6.0	5.4	6.6	6.0	6.0
18	NuStar	6.0	5.1	6.6	6.2	2.0	5.3
19	Ram I	5.9	6.0	6.0	5.8	4.0	5.7
20	Champagne	5.9	5.6	6.1	6.1	5.3	5.7
21	A91-626	5.9	5.2	6.4	6.1	6.3	4.3
22	SR A82-2005	5.8	6.5	5.6	5.4	4.7	6.3
23	Eclipse	5.8	5.7	5.9	5.8	4.7	4.7
24	Princeton 104	5.8	5.4	5.8	6.2	4.7	5.0
25	H86-1019	5.8	6.1	6.0	5.3	2.5	6.0
26	Julia	5.8	5.5	6.5	5.3	4.0	6.7
27	Glade	5.8	5.4	6.1	5.7	3.7	4.7
28	Rita	5.7	6.1	5.5	5.5	4.8	4.8
29	A91-725	5.7	5.2	5.8	6.0	6.7	6.3
30	NJ-1190	5.7	6.7	5.5	4.9	3.8	5.5

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 1997	Leaf Spot <sup>3</sup> April 1997
		1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
31	Preakness	5.6	5.7	5.5	5.6	4.2	6.0
32	Limousine	5.6	6.3	5.5	5.0	2.7	4.7
33	LTP-62O	5.6	5.4	5.7	5.7	5.3	7.0
34	Fylking	5.5	4.7	6.3	5.6	3.3	4.7
35	Shamrock	5.5	5.5	5.1	5.9	5.0	7.7
36	Washington	5.4	5.0	5.7	5.7	5.0	7.3
37	NuBlue	5.4	5.2	5.5	5.7	5.0	6.0
38	A91-628	5.4	5.3	5.3	5.6	5.7	6.7
39	Trenton	5.4	5.1	5.5	5.5	6.3	6.0
40	A91-625	5.3	4.8	5.7	5.5	5.7	7.7
41	Cheri	5.3	5.4	4.8	5.6	3.7	5.3
42	Freedom	5.2	5.5	5.0	5.0	5.7	6.7
43	Adelphi	5.1	5.5	5.3	4.6	5.0	7.3
44	Rugby	5.1	5.3	5.2	4.7	6.0	5.0
45	Kelly	5.0	4.9	5.1	5.1	1.7	5.3
46	Classic	5.0	5.4	5.0	4.7	6.0	5.0
47	1757	5.0	5.1	4.9	4.8	5.7	7.7
48	A89-139 Pat Pk	4.9	4.3	5.4	5.1	7.0	6.5
49	Liberty	4.9	5.1	4.8	5.0	5.3	5.7
50	Sydsport	4.9	5.2	4.6	5.0	3.7	7.0
51	Belmont	4.9	5.0	5.0	4.8	4.0	7.0
52	Amazon	4.9	4.8	4.8	5.0	3.7	6.0
53	Penn Pro	4.9	4.6	4.6	5.4	4.7	5.7
54	Suffolk	4.9	5.0	5.4	4.2	6.0	4.7
55	Livingston	4.8	4.6	4.9	5.0	4.3	5.0
56	H90-1121 Rt 130	4.8	4.4	5.0	5.0	4.7	5.7
57	Belturf	4.8	5.2	4.7	4.7	3.9	3.3
58	A89-255 Ga 448	4.8	4.1	4.8	5.4	5.3	6.7
59	Baron	4.7	4.6	5.0	4.6	2.0	6.7
60	Georgetown	4.7	5.1	4.5	4.6	6.0	5.3

(Continued)

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 1997	Leaf Spot <sup>3</sup> April 1997
		1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
61	PST BM3	4.6	4.4	5.0	4.5	8.0	6.5
62	Merit	4.5	4.7	4.5	4.4	3.3	6.7
63	A34	4.5	4.5	4.4	4.7	5.0	4.5
64	Nimbus	4.4	4.6	4.1	4.5	5.7	7.3
65	Canterbury	4.1	5.0	3.9	3.6	5.7	5.7
66	Plush	4.1	3.9	4.0	4.3	5.0	7.0
67	Bel 21	4.0	3.7	4.0	4.3	5.3	5.7
68	Huntsville	3.7	3.5	4.0	3.8	6.0	6.0
69	S-21	3.0	2.5	3.2	3.1	8.0	4.5
LSD at 5% =		0.6	0.7	0.8	0.9	1.9	1.2

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

<sup>2</sup>9 = earliest spring green-up

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

Table 3. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1994 at Adelphia, NJ. (High Maintenance Test.)

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 1997	Stripe Smut <sup>3</sup> June 1997
	1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
1 Moonlight	7.2	7.4	7.7	6.6	2.6	9.0
2 Midnight	6.7	6.1	7.7	6.2	1.3	9.0
3 Blacksburg	6.1	5.8	7.0	5.6	2.3	9.0
4 Unique	5.8	6.3	5.9	5.3	4.7	9.0
5 America	5.7	6.1	6.0	5.0	4.3	9.0
6 A118	5.6	6.0	5.7	5.1	3.9	9.0
7 Baron	4.4	4.2	4.8	4.1	2.7	3.3
LSD at 5% =	0.5	0.7	0.7	0.7	1.3	1.1

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

<sup>2</sup>9 = earliest spring green-up

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

Table 4. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1994 at Adelphia, NJ. (Low Maintenance Test.)

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> March 1997	Leaf Spot <sup>3</sup> May 1997
	1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
1 Midnight	6.4	6.5	7.5	5.2	2.0	6.7
2 Blacksburg	6.4	6.3	7.2	5.6	3.0	5.7
3 H86-1019	5.9	6.0	6.2	5.5	2.0	5.5
4 A82-2005	5.8	6.7	5.8	4.8	4.3	4.0
5 SRX 2109	5.6	6.2	6.1	4.6	3.4	6.5
6 Ram I	5.5	6.0	6.2	4.4	3.0	5.3
7 Rita	5.5	5.6	5.9	5.0	5.8	5.5
8 Apex	5.5	6.2	6.2	4.1	1.3	5.3
9 A91-714	5.5	5.8	5.8	4.7	2.7	5.3
10 Wildwood	5.5	5.8	6.2	4.4	2.3	4.7
11 H86-697	5.5	6.1	5.2	5.1	4.0	5.7
12 H90-1149	5.4	6.0	5.8	4.5	4.3	5.0
13 A91-706	5.4	5.5	6.2	4.5	3.0	5.3
14 Preakness	5.4	5.5	5.3	5.5	2.5	5.0
15 Princeton 104	5.3	5.1	5.5	5.1	5.0	4.7
16 H86-920	5.1	5.4	5.9	4.2	4.3	4.7
17 Cheri	5.1	5.3	5.2	4.9	2.3	5.0
18 Champagne	5.1	5.1	5.1	5.1	3.4	4.9
19 Unique	5.1	6.0	4.9	4.3	2.7	5.0
20 A83-876	5.1	6.3	5.2	3.6	4.0	3.3
21 A91-625	5.0	5.3	5.3	4.5	3.3	5.3
22 ZPS-2183	5.0	5.2	5.6	4.1	5.0	5.7
23 Washington	5.0	5.0	5.3	4.7	2.7	3.7
24 Princeton P-105	5.0	5.3	5.0	4.5	2.7	6.5
25 Fylking	4.9	5.0	5.3	4.6	1.7	4.7
26 Eclipse	4.9	5.2	5.1	4.4	3.7	4.7
27 A91-626	4.9	5.7	4.6	4.4	3.3	5.3
28 Nimbus	4.9	5.1	4.9	4.7	3.3	4.3
29 Shamrock	4.9	5.0	5.0	4.6	3.7	6.3
30 Livingston	4.8	4.7	4.9	4.9	3.3	6.0

(Continued)

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> March 1997	Leaf Spot <sup>3</sup> May 1997
		1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
31	NuStar	4.8	4.9	5.0	4.5	2.0	5.3
32	America	4.8	5.8	4.7	3.8	3.3	4.3
33	Limousine	4.7	5.0	4.9	4.3	3.0	4.7
34	RSP	4.7	5.2	4.2	4.8	3.4	2.5
35	Adelphi	4.6	4.9	4.8	4.1	2.7	4.3
36	H86-749	4.5	4.7	4.3	4.5	3.9	3.7
37	Freedom	4.5	4.9	5.2	3.3	5.0	4.7
38	Suffolk	4.5	4.6	4.5	4.2	5.3	4.7
39	Sydsport	4.5	4.6	4.3	4.5	2.7	5.3
40	1757	4.4	4.8	4.6	3.9	4.0	5.0
41	Plush	4.4	4.6	4.5	4.3	3.3	3.7
42	Baron	4.4	4.5	4.3	4.4	2.7	5.3
43	Classic	4.4	5.1	4.5	3.5	4.7	4.7
44	Rugby	4.4	5.1	4.5	3.6	5.7	5.0
45	Julia	4.4	5.2	4.5	3.4	3.0	5.3
46	A89-255	4.3	4.3	4.5	4.2	3.7	5.3
47	Bel 21	4.3	4.6	3.9	4.4	2.0	3.7
48	Belmont	4.3	4.5	4.7	3.7	3.3	6.0
49	Aspen	4.2	4.8	4.5	3.3	4.0	5.3
50	Penn Pro	4.1	3.6	4.5	4.2	3.3	4.7
51	Georgetown	4.1	4.7	4.2	3.3	4.7	5.0
52	Merit	3.9	4.4	4.0	3.4	2.3	4.7
53	Glade	3.9	4.7	3.3	3.7	3.0	3.7
54	Huntsville	3.9	4.5	3.1	4.1	3.3	2.3
55	Amazon	3.9	4.3	4.0	3.4	2.0	4.0
56	Trenton	3.9	4.4	4.2	3.1	5.0	5.7
57	Kelly	3.9	4.4	3.7	3.6	2.3	5.0
58	Belturf	3.8	4.9	3.1	3.6	2.0	3.5
59	Liberty	3.5	4.5	3.4	2.7	4.0	4.5
60	A34	3.4	3.5	3.5	3.3	3.0	4.0

(Continued)

Table 4 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> March 1997	Leaf Spot <sup>3</sup> May 1997
	1995-1997 Avg.	1995 Avg.	1996 Avg.	1997 Avg.		
61 Canterbury	3.4	3.7	3.6	2.8	3.3	4.3
62 S-21	3.3	3.6	2.8	3.7	4.7	2.3
63 NuBlue	3.3	4.2	2.7	3.0	3.7	5.0
LSD at 5% =	0.8	0.7	1.2	1.1	1.4	1.2

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

<sup>2</sup>9 = earliest spring green-up

<sup>3</sup>9 = least leaf spot

Table 5. Performance of Kentucky bluegrass cultivars and selections in a test established in September 1995 at North Brunswick, NJ. (Includes NTEP Medium-High Maintenance Test-1.)

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1997 Avg.				Aug. 1997	Sept. 1997	
1 Moonlight	6.6	6.2	9.0	2.7	4.3	88.3	80.0	8.7
2 Blackstone	6.3	6.2	8.4	5.8	4.9	89.2	83.2	4.0
3 Midnight	6.3	6.4	8.7	1.5	6.0	79.0	49.3	6.7
4 SR 2000	6.0	6.3	9.0	4.0	2.3	51.7	42.3	7.7
5 H94-283	5.9	5.9	8.4	3.4	4.5	82.0	69.5	6.4
6 Liberator	5.8	5.1	8.7	2.2	6.3	93.3	75.0	8.0
7 Pick 8-15-94W	5.8	5.1	6.3	4.5	4.3	84.0	75.7	5.7
8 Indigo	5.8	5.5	7.3	4.8	6.7	92.3	83.3	5.7
9 A82-204 VT	5.8	6.0	7.3	4.5	4.3	81.3	52.3	4.0
10 Eclipse	5.7	5.2	6.7	4.3	5.3	61.3	84.0	6.3
11 A90-924	5.7	6.1	8.0	3.7	5.0	31.3	20.7	7.8
12 Princeton P-105	5.7	5.5	7.7	2.9	5.0	78.7	63.8	4.8
13 Rugby II	5.7	4.9	8.7	2.2	6.0	95.3	71.7	7.0
14 Jefferson	5.7	5.2	6.7	5.8	5.0	84.0	73.3	4.0
15 Blacksburg	5.6	4.9	7.0	5.8	5.0	61.7	39.0	6.7
16 PST-B3-180	5.6	5.0	4.7	2.8	4.7	92.7	91.7	7.0
17 H90-1149	5.6	5.4	8.0	5.2	4.0	58.3	75.0	5.7
18 Unique	5.6	5.4	5.0	4.2	5.0	91.3	87.0	5.0
19 A90-287	5.6	6.1	8.0	2.8	3.5	30.8	11.8	7.3
20 Odyssey	5.5	4.7	8.0	2.5	5.3	91.7	79.7	7.3

(Continued)



Table 5 (continued).

	-----Turf Quality <sup>1</sup> -----		Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1997 Avg.				Aug. 1997	Sept. 1997	
21	5.5	5.2	8.7	5.0	6.7	71.7	57.3	6.3
22	5.5	5.6	6.3	1.5	6.7	68.3	28.3	7.7
23	5.5	4.9	6.0	5.8	6.3	96.0	85.0	3.0
24	5.5	5.3	5.3	3.3	6.0	85.3	75.3	5.2
25	5.4	5.2	4.7	2.2	6.7	63.7	35.0	8.0
26	5.4	4.9	1.7	7.5	7.3	86.0	69.0	4.7
27	5.3	4.6	4.3	3.0	4.3	93.7	87.0	4.7
28	5.3	5.1	7.0	4.4	5.3	70.5	68.3	4.2
29	5.3	5.4	5.0	4.3	7.3	37.7	18.3	5.0
30	5.3	4.6	8.7	2.5	5.3	82.7	58.3	7.0
31	5.2	4.4	7.7	3.7	6.3	91.7	75.0	7.3
32	5.2	4.4	8.3	2.3	4.7	65.7	66.7	7.3
33	5.2	4.5	4.7	3.3	4.0	96.3	87.7	5.7
34	5.2	5.9	5.7	4.3	5.0	17.3	13.0	4.7
35	5.2	4.7	8.0	3.2	6.0	58.3	55.0	7.0
36	5.2	5.1	5.7	5.2	6.7	51.7	26.7	4.3
37	5.1	5.0	9.0	3.2	5.7	63.3	71.7	4.7
38	5.1	5.0	6.3	3.0	6.7	75.0	71.7	6.0
39	5.1	5.1	8.7	2.2	5.7	83.3	30.7	6.3
40	5.1	5.2	6.3	3.0	5.3	67.7	21.7	7.7

(Continued)

Table 5 (continued).

	-----Turf Quality <sup>1</sup> -----		Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.				1997 Avg.	Aug. 1997	
41	5.1	4.3	6.7	6.8	4.3	68.3	73.3	6.7
42	5.1	4.8	6.7	5.3	5.3	44.0	71.7	4.7
43	5.1	5.1	5.7	3.0	4.3	41.7	27.3	5.3
44	5.1	5.3	6.0	5.8	6.0	39.0	47.3	4.0
45	5.1	5.4	6.0	5.8	3.7	35.0	32.7	4.7
46	5.0	4.2	8.7	2.3	6.0	80.0	55.0	8.3
47	5.0	5.0	5.3	4.7	5.3	50.7	25.7	5.0
48	5.0	4.8	7.7	2.7	4.7	68.3	29.7	7.3
49	5.0	6.2	6.0	5.8	6.3	11.7	17.3	7.0
50	5.0	5.3	6.0	3.0	6.3	86.3	36.7	3.0
51	4.9	5.1	7.3	4.8	5.3	32.3	16.3	8.0
52	4.9	5.2	7.0	6.2	6.7	25.7	30.0	8.3
53	4.9	5.2	6.0	5.7	5.3	32.3	31.0	6.3
54	4.9	4.7	4.0	1.7	5.0	40.0	19.3	8.7
55	4.9	5.0	5.3	5.2	4.3	58.3	41.7	3.3
56	4.9	5.1	6.0	4.1	4.8	49.2	29.2	4.8
57	4.9	4.7	7.0	4.5	5.7	14.0	45.7	4.3
58	4.9	5.3	6.0	5.5	5.3	25.0	53.3	3.0
59	4.9	5.1	8.0	3.8	4.0	42.2	75.0	4.8
60	4.8	4.9	6.3	4.3	5.0	40.0	32.3	3.7

(Continued)

Table 5 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.	1997 Avg.				Aug. 1997	Sept. 1997	
61 A91-625	4.8	4.9	4.8	7.3	3.8	5.0	39.3	36.0	4.7
62 A91-702	4.8	4.6	5.1	7.7	7.5	4.0	78.0	60.0	4.0
63 Monopoly	4.8	4.3	5.4	4.0	4.0	5.0	86.7	80.0	3.3
64 Dragon	4.8	4.6	5.1	7.0	5.2	4.2	85.2	65.8	3.5
65 Wildwood	4.8	4.8	4.9	6.0	3.5	7.0	51.7	32.0	7.3
66 NJ-GD	4.8	5.3	4.4	5.3	5.8	6.3	23.3	25.0	4.0
67 Ba 70-060	4.8	4.7	4.9	6.3	3.8	5.0	30.0	26.7	6.0
68 BAR VB 3115B	4.8	4.5	5.0	4.3	3.8	7.0	24.7	48.7	5.3
69 Goldrush	4.8	4.6	4.9	5.0	3.3	5.0	31.7	14.0	6.0
70 PST-P46	4.8	4.9	4.6	7.7	2.7	5.0	26.3	26.0	6.0
71 Raven	4.7	4.3	5.3	4.7	3.0	5.0	48.3	27.7	6.3
72 Chicago	4.7	4.6	4.9	7.0	3.8	6.3	54.3	33.3	5.3
73 H94-451	4.7	4.9	4.6	9.0	3.7	4.3	68.3	20.7	3.7
74 BAR VB 5649	4.7	4.5	4.9	5.0	4.8	3.7	23.3	49.0	4.3
75 ZPS-309	4.7	4.9	4.5	6.0	4.5	6.0	21.7	30.0	4.0
76 Crest	4.7	4.6	4.9	4.3	3.2	4.3	37.7	24.0	6.0
77 Abbey	4.7	4.5	4.9	5.0	3.5	6.0	42.3	31.7	6.0
78 Ba 73-373	4.7	4.6	4.7	5.3	3.7	5.3	23.3	21.0	5.7
79 Haga	4.6	4.8	4.5	5.3	4.7	5.7	37.7	26.7	3.3
80 Ba 81-220	4.6	4.3	5.0	6.0	4.3	4.0	52.7	36.7	5.3

(Continued)

Table 5 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.	1997 Avg.				Aug. 1997	Sept. 1997	
81 Fortuna	4.6	4.3	5.0	5.3	4.0	6.7	34.0	39.0	6.0
82 A91-703	4.6	4.5	4.8	8.0	6.3	4.3	73.3	50.0	4.0
83 A118	4.6	5.0	4.3	6.3	3.5	4.3	28.3	15.0	4.3
84 Baron	4.6	4.1	5.1	4.7	2.5	4.0	31.0	19.7	6.0
85 Caliber	4.6	4.5	4.7	5.3	5.5	6.3	40.7	37.7	3.0
86 Ba 75-173	4.6	4.6	4.5	4.3	3.5	5.7	28.0	10.7	6.0
87 LTP-620	4.6	4.6	4.5	7.2	4.6	4.7	38.7	38.3	3.3
88 BAR VB 6820	4.5	4.1	4.9	5.0	2.5	6.7	27.3	13.3	8.3
89 Marquis	4.5	4.4	4.8	5.7	4.0	5.7	28.0	25.0	5.3
90 Seabring	4.5	4.6	4.5	8.0	2.2	6.3	26.7	24.0	7.3
91 A93-372	4.5	4.8	4.3	8.7	2.8	4.7	60.0	12.7	2.7
92 Plush	4.5	4.0	5.0	4.3	4.7	4.0	84.3	75.7	2.0
93 Nassau	4.4	5.3	3.7	4.7	5.8	6.0	11.3	15.0	4.3
94 Ba 77-702	4.4	4.1	4.7	3.3	2.5	4.3	41.7	22.7	6.0
95 Ba 81-227	4.4	4.3	4.5	6.0	4.0	3.7	27.3	40.0	4.0
96 Bronco	4.4	4.2	4.6	5.3	2.3	3.7	66.7	38.3	3.7
97 Bartita	4.4	5.1	3.7	4.7	3.8	6.0	13.0	7.0	7.3
98 A93-474	4.4	3.9	4.8	6.7	7.0	5.3	85.0	66.0	1.7
99 Bel-21	4.3	3.9	4.8	4.0	3.0	7.0	71.7	79.0	2.0
100 HV-242	4.3	4.4	4.2	5.0	4.8	5.7	9.0	26.7	3.7

(Continued)

Table 5 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.				1997 Avg.	Aug. 1997	
101 Rambo	4.3	4.0	4.7	4.3	7.3	46.0	27.3	4.3
102 Explorer	4.3	4.1	5.7	3.8	6.7	39.0	30.0	5.0
103 Eagleton	4.3	4.1	4.0	4.8	4.8	63.2	54.2	2.5
104 Ba 81-270	4.2	4.6	4.0	3.0	4.3	11.7	11.3	5.0
105 A34	4.2	4.5	4.7	5.0	5.0	22.3	17.7	3.0
106 Preakness	4.2	4.0	7.3	4.5	4.3	46.7	56.7	3.3
107 HV 130	4.2	4.4	6.3	2.8	5.7	14.7	12.3	4.7
108 Rami	4.1	4.7	5.3	4.7	5.3	27.3	11.3	3.7
109 Impact	4.1	4.2	4.0	3.3	5.3	33.3	29.3	4.3
110 Touchdown	4.1	4.1	2.7	6.3	5.3	18.3	7.3	5.3
111 PST-A7-245A	4.0	3.8	4.3	2.8	4.3	11.7	20.0	5.3
112 Allure	4.0	4.4	4.0	3.7	4.3	8.3	15.7	4.3
113 H90-315 Muddy Pk	4.0	4.0	2.3	5.3	5.0	81.7	78.3	2.7
114 BlueChip	4.0	3.6	5.3	3.8	4.7	24.0	40.7	6.0
115 Conni	4.0	4.5	3.7	2.2	7.3	18.7	8.3	5.0
116 Chateau	4.0	4.3	3.7	2.7	3.7	13.3	12.3	5.0
117 Pick 855	3.9	3.8	6.7	6.3	7.3	30.0	14.7	4.0
118 SRX 2205	3.9	3.7	2.0	3.8	3.7	22.3	14.3	4.7
119 Sidekick	3.9	3.3	6.0	5.3	2.7	60.0	81.7	3.0
120 LKB-95	3.8	3.7	4.3	4.8	7.0	22.3	43.3	4.0

(Continued)

Table 5 (continued).

	-----Turf Quality <sup>1</sup> -----			Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.	1997 Avg.				Aug. 1997	Sept. 1997	
121	3.8	3.5	4.1	9.0	3.8	4.7	35.0	18.0	5.3
122	3.8	4.1	3.5	4.3	2.7	3.3	7.0	10.3	4.3
123	3.8	3.9	3.7	3.0	6.3	5.3	12.3	15.7	5.0
124	3.7	3.0	4.4	7.7	7.0	5.0	83.3	76.7	1.3
125	3.7	2.8	4.7	4.3	5.7	5.7	68.3	53.3	5.0
126	3.7	3.1	4.2	6.3	4.2	4.7	76.7	52.7	3.3
127	3.6	4.5	2.6	4.8	6.3	5.0	7.5	3.8	3.5
128	3.5	3.4	3.7	3.7	3.3	2.3	20.3	28.3	4.0
129	3.5	3.7	3.3	8.7	3.7	3.7	32.3	13.7	3.0
130	3.5	3.8	3.1	4.3	7.2	4.5	12.8	18.0	3.3
131	3.4	3.6	3.3	5.0	4.0	3.3	7.3	8.0	4.0
132	3.4	4.0	2.7	4.7	7.3	5.0	11.0	10.7	3.3
133	3.3	3.8	2.8	3.3	5.2	4.7	9.7	5.3	3.7
134	3.3	3.8	2.7	1.3	4.5	5.7	12.3	7.0	3.0
135	3.2	3.8	2.7	3.3	3.5	6.0	9.7	12.7	3.0
136	3.1	3.1	3.0	4.0	2.5	5.0	7.0	5.0	6.3
137	3.0	3.2	2.9	4.7	5.7	4.7	23.3	12.3	3.3
138	3.0	2.9	3.0	4.7	3.5	6.7	8.3	3.3	3.0
139	2.9	2.8	3.1	3.7	5.2	6.3	13.3	6.0	4.7
140	2.8	2.9	2.8	6.3	6.7	5.3	6.7	9.3	6.7

(Continued)

Table 5 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Bright Green Color <sup>2</sup> Nov. 1997	Spring Green-up <sup>3</sup> April 1997	Leaf Texture <sup>4</sup> July 1997	---Green Turf <sup>5</sup> (%)---		Leaf Spot <sup>6</sup> May 1997
	1996-1997 Avg.	1996 Avg.				1997 Avg.	Aug. 1997	
141 Sodnet	2.4	1.8	7.0	4.7	5.0	11.0	5.0	6.7
142 Kenblue	2.3	2.1	3.0	6.3	5.7	41.7	30.7	1.0
143 EXP# 1589	2.2	2.3	4.0	7.3	5.0	9.3	8.7	1.0
LSD at 5 %								
	0.7	0.9	1.7	1.3	2.6	31.0	32.0	1.4

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

<sup>2</sup>9 = brightest green color

<sup>3</sup>9 = earliest spring green-up

<sup>4</sup>9 = finest leaf texture

<sup>5</sup>Percent green turf (turf loss was primarily due to patch disease)

<sup>6</sup>9 = least leaf spot disease

Table 6. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1995 at Adelphia, NJ. (Includes NTEP Medium-High Maintenance Test-2.)

Cultivar or Selection	-----Turf Quality'-----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
1 Quantum Leap	6.6	6.7	2.0	6.0	6.7	8.3	6.3	6.7	92.7
2 Moonlight	6.5	6.8	2.7	4.3	7.0	8.0	8.0	8.3	91.3
3 Total Eclipse	6.5	6.8	1.7	5.0	7.3	8.7	8.0	6.7	89.7
4 H94-301	6.5	6.6	5.0	5.3	7.0	7.0	8.7	7.0	81.7
5 A95-284	6.3	6.7	5.0	4.7	6.7	5.7	7.0	7.0	78.3
6 H94-461	6.3	6.5	3.0	5.3	7.0	8.7	8.3	6.3	78.3
7 A95-289	6.3	6.2	4.3	4.7	7.3	6.0	7.3	7.3	94.0
8 J-1576	6.3	6.4	2.0	4.7	7.7	9.0	7.0	6.3	81.7
9 SR 2109	6.2	6.2	5.0	6.0	7.0	8.7	6.7	6.3	63.3
10 Midnight	6.2	6.5	1.0	5.3	7.0	8.7	7.3	6.3	83.3
11 Arcadia	6.1	6.3	2.0	5.0	7.0	9.0	7.3	6.3	87.3
12 Liberator	6.1	6.5	2.0	5.3	7.3	9.0	7.3	5.7	79.3
13 Odyssey	6.1	6.2	2.0	6.0	7.0	8.7	6.3	6.0	86.0
14 A93-421	6.1	6.2	3.3	5.0	7.3	8.0	7.0	6.0	80.7
15 NuGlade	6.1	6.0	1.3	5.0	7.0	9.0	7.0	5.7	85.7
16 Blackstone	6.0	6.8	6.7	4.7	6.7	9.0	4.7	4.3	58.3
17 H90-1149	6.0	5.8	6.7	6.3	7.0	7.0	6.0	8.0	80.0
18 Award	6.0	6.5	1.7	4.7	6.7	8.7	6.3	5.3	77.3
19 H92-558	6.0	6.6	2.0	4.3	7.7	8.7	6.7	5.3	56.7
20 Blacksburg	6.0	6.0	5.7	6.0	7.7	8.7	6.0	4.0	49.0

(Continued)



Table 6 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
		1996-1997 Avg.	1997 Avg.							
21	A90-287	6.0	6.4	5.6	4.2	7.4	8.5	6.7	5.4	71.2
22	Absolute	5.9	6.3	5.6	4.3	7.7	9.0	7.0	6.7	72.7
23	H94-451	5.9	6.4	5.4	5.7	6.3	6.3	6.3	6.0	73.3
24	Rita	5.9	6.3	5.6	5.2	6.7	7.2	6.4	7.5	67.8
25	A93-372	5.9	6.4	5.4	4.0	7.7	7.0	6.7	6.7	75.0
26	H86-697	5.9	6.6	5.2	5.0	7.3	8.0	5.7	4.7	45.0
27	Indigo	5.9	6.0	5.9	5.4	7.0	7.7	6.7	7.8	90.4
28	A93-417	5.9	6.2	5.6	4.3	7.3	7.7	6.3	5.3	65.7
29	H94-296	5.9	6.1	5.7	4.7	7.0	6.0	8.3	8.0	85.0
30	Princeton P-105	5.8	6.0	5.7	6.0	6.3	7.7	7.0	6.0	85.7
31	ZPS-2183	5.8	5.4	6.2	5.7	8.3	7.7	7.0	7.3	80.0
32	A82-204 VT	5.8	6.0	5.6	5.3	7.3	8.3	6.7	7.7	80.0
33	Challenger	5.8	6.1	5.5	6.3	7.0	4.3	5.7	6.0	75.0
34	Rugby II	5.8	6.1	5.5	5.7	7.0	8.7	6.3	5.3	73.3
35	C-74	5.8	6.0	5.7	4.7	7.0	8.5	6.0	7.4	91.0
36	AG 508	5.8	6.2	5.4	4.7	7.3	8.0	6.3	5.0	58.3
37	H94-283	5.8	5.9	5.6	3.3	7.0	3.7	8.0	8.3	87.3
38	Wildwood	5.8	6.2	5.4	5.7	7.0	9.0	8.0	5.0	70.0
39	Alpine	5.8	5.9	5.6	5.3	7.0	7.0	6.3	3.3	57.7
40	PST-P46	5.7	6.3	5.2	4.3	7.0	8.7	7.7	4.7	63.3

(Continued)

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
		1996-1997 Avg.	1997 Avg.							
41	PST-A7-60	5.7	6.1	5.3	3.7	7.0	8.0	6.7	4.7	46.7
42	A90-924	5.7	6.1	5.3	3.5	7.3	8.5	7.0	6.2	68.4
43	PST-B2-42	5.7	5.8	5.6	3.7	7.3	8.0	6.7	7.7	93.3
44	H94-285	5.7	6.0	5.3	3.3	7.0	8.3	5.0	6.3	89.0
45	93KB 5	5.7	6.1	5.3	5.7	6.0	8.0	6.7	3.3	58.3
46	Unique	5.7	5.8	5.5	5.0	7.0	8.0	5.0	7.7	87.0
47	Pick 8-15-94W	5.6	6.0	5.3	5.7	7.3	6.3	5.0	3.7	65.0
48	BA 81-058	5.6	5.6	5.6	5.3	7.3	5.7	6.7	6.3	48.3
49	A84-605	5.6	5.6	5.5	5.7	7.7	8.3	6.3	7.3	83.3
50	H94-282	5.5	6.0	5.1	5.0	7.0	2.3	6.0	6.7	66.7
51	Eclipse	5.5	5.2	5.8	5.0	7.3	5.7	6.0	6.7	77.0
52	A93-330	5.5	6.0	4.9	4.3	6.0	7.3	6.7	5.3	30.7
53	Bartita	5.5	5.3	5.7	5.7	7.0	8.0	6.7	5.7	75.0
54	H94-728	5.5	5.9	5.1	3.0	6.7	2.7	6.7	7.0	66.7
55	PST-B3-180	5.4	5.7	5.1	3.3	6.7	8.0	4.3	7.0	90.0
56	NJ-1190	5.4	6.0	4.7	4.7	6.0	8.3	4.3	2.3	37.3
57	A83-876	5.4	6.1	4.7	4.0	5.7	8.0	5.0	2.7	49.0
58	Champagne	5.4	5.2	5.5	5.0	6.7	7.3	5.7	6.0	56.7
59	NJ-GD	5.4	5.4	5.3	3.7	7.0	7.0	5.7	6.7	56.7
60	Preakness	5.4	5.6	5.2	4.0	5.5	8.2	5.2	5.9	70.9

(Continued)

Table 6 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
61 America	5.4	5.7	5.1	4.3	6.7	8.3	5.3	6.7	84.3
62 PST-BO-141	5.4	5.6	5.1	4.3	7.0	7.7	5.0	7.0	88.3
63 H94-596	5.3	5.9	4.7	3.0	6.7	1.7	7.0	7.3	80.0
64 Ascot	5.3	5.3	5.3	4.7	7.0	2.0	6.3	7.0	90.7
65 A91-639	5.3	5.7	4.9	3.7	6.0	7.7	6.0	5.0	45.0
66 A91-625	5.3	5.7	4.9	3.7	6.7	7.0	5.7	4.7	49.7
67 Freedom	5.3	5.5	5.1	7.3	5.7	5.0	3.3	4.7	53.3
68 Princeton 104	5.2	4.8	5.7	5.3	7.0	8.0	5.7	6.7	76.7
69 Pick 247	5.2	5.2	5.3	4.7	7.0	7.3	4.7	7.7	81.7
70 Livingston	5.2	5.0	5.5	5.3	6.3	6.3	6.0	6.0	65.0
71 HV 130	5.2	6.2	4.3	4.0	6.3	8.7	4.0	3.3	30.3
72 Seabring	5.2	5.5	4.9	3.0	7.3	1.0	5.3	4.7	58.3
73 Cheri	5.2	5.4	5.0	5.0	6.7	4.7	5.0	5.7	46.7
74 Jefferson	5.2	5.1	5.2	4.7	5.3	7.0	7.0	6.7	83.3
75 Glade	5.2	5.4	4.9	3.3	5.0	8.7	6.3	5.3	75.0
76 Allure	5.2	5.2	5.1	5.3	7.0	7.0	6.0	5.3	56.7
77 BAR VB 6820	5.1	4.7	5.5	5.3	7.3	8.3	6.3	4.7	51.7
78 Cardiff	5.1	5.1	5.2	5.3	6.3	6.3	3.7	4.3	56.7
79 Julia	5.1	5.3	4.9	5.0	7.0	6.0	4.0	5.3	21.7
80 Explorer	5.1	5.1	5.0	4.7	7.0	7.7	4.0	4.7	46.7

(Continued)

Table 6 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
81 ZPS-309	5.1	5.0	5.1	5.3	7.0	4.0	3.7	3.7	16.0
82 Fylking	5.0	4.8	5.2	5.7	6.7	8.0	6.0	4.7	44.0
83 BAR VB 3115B	5.0	5.1	4.9	4.7	6.7	8.7	6.7	5.7	51.7
84 AG 496	5.0	4.5	5.4	4.3	7.7	7.7	7.0	5.3	52.3
85 Conni	5.0	5.3	4.6	5.0	6.0	8.0	5.3	3.0	11.7
86 Crest	4.9	5.1	4.7	4.0	6.7	4.3	6.3	4.7	63.3
87 Chateau	4.9	5.1	4.8	5.0	7.3	5.0	4.3	5.3	50.0
88 A91-624	4.9	5.3	4.5	3.5	6.4	4.7	5.5	3.7	25.7
89 SRX 2205	4.9	4.8	5.0	5.0	6.0	8.0	5.7	5.3	74.0
90 Coventry	4.9	4.9	4.9	4.0	7.0	5.7	4.3	5.0	66.0
91 Misty	4.9	4.9	4.9	4.3	6.0	7.3	5.3	3.7	48.3
92 BAR VB 233	4.9	4.8	4.9	5.0	7.7	5.3	4.7	3.7	12.3
93 Shamrock	4.9	5.0	4.8	4.0	7.3	6.3	5.7	5.0	35.0
94 Rambo	4.9	5.0	4.7	3.3	6.7	7.7	3.3	4.0	39.3
95 Platini	4.9	5.1	4.6	5.0	7.0	7.0	5.0	3.3	28.7
96 BA 81-270	4.8	5.0	4.6	4.0	7.0	5.0	4.3	4.0	38.3
97 BAR VB 5649	4.8	5.2	4.4	5.0	7.3	6.0	3.7	4.0	18.0
98 Bronco	4.8	4.5	5.1	4.0	6.0	7.3	6.7	7.3	71.7
99 Touchdown	4.8	4.4	5.2	4.2	7.2	7.4	6.2	5.4	62.9
100 Washington	4.8	4.2	5.4	3.4	6.0	8.0	6.7	6.0	75.7

(Continued)

Table 6 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
101 NuStar	4.8	4.7	4.9	4.7	7.0	8.0	5.7	6.0	51.7
102 VB 16015	4.8	5.1	4.5	5.3	7.3	2.0	2.7	3.3	41.7
103 Liberty	4.8	4.9	4.6	6.3	7.0	3.0	4.3	5.3	27.0
104 Sydsport	4.8	4.9	4.6	4.0	7.0	5.3	4.7	4.0	39.3
105 Fortuna	4.7	4.5	5.0	5.0	7.0	8.0	6.0	6.7	82.3
106 SR 2000	4.7	5.0	4.4	4.0	6.7	8.0	4.3	6.3	73.3
107 Impact	4.7	4.9	4.6	4.3	6.0	6.3	4.7	3.7	46.7
108 Chicago	4.7	4.8	4.7	4.3	6.7	6.3	4.0	4.3	27.7
109 Plush	4.7	4.3	5.1	4.3	4.0	5.0	6.0	7.3	95.3
110 Pick 151	4.7	4.2	5.1	4.0	6.7	5.3	5.7	6.3	65.0
111 Haga	4.7	4.9	4.4	5.3	6.7	5.0	4.0	3.7	40.0
112 Limousine	4.7	5.1	4.3	3.0	7.3	9.0	2.7	2.3	14.3
113 BA 70-060	4.7	4.4	5.0	5.3	6.7	6.7	5.7	6.0	60.0
114 Caliber	4.6	4.3	4.9	5.0	7.0	4.3	4.0	4.7	48.0
115 Pick 4	4.6	4.2	4.9	4.3	6.7	6.7	5.0	6.3	48.3
116 Baronie	4.6	4.4	4.7	6.0	6.0	3.7	2.7	5.0	36.7
117 Raven	4.6	4.5	4.7	4.7	6.7	8.3	6.7	6.3	65.7
118 Nimbus	4.5	4.6	4.5	5.3	6.7	8.7	5.0	3.7	24.7
119 BlueChip	4.5	4.6	4.5	4.3	7.0	7.7	5.0	6.0	61.7
120 KBGJB91-B	4.5	4.3	4.7	4.3	6.3	3.0	6.0	4.3	45.0

(Continued)

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
		1996-1997 Avg.	1997 Avg.							
121	BA 81-220	4.5	4.7	3.0	4.0	6.3	4.7	6.0	5.3	63.3
122	Cobalt	4.5	3.7	2.0	3.3	6.3	6.0	4.3	3.7	18.3
123	Suffolk	4.5	4.5	5.0	6.3	5.3	4.3	3.0	3.0	22.7
124	PST-B9-196	4.5	4.5	4.3	4.0	7.7	6.3	5.0	6.3	73.3
125	H86-690	4.5	4.9	5.3	2.7	7.0	6.0	7.0	5.7	78.3
126	BA 75-173	4.5	4.4	2.3	4.7	7.0	4.7	3.7	4.7	39.0
127	Marquis	4.5	4.7	3.0	4.7	7.0	8.3	6.3	4.7	55.0
128	Monopoly	4.4	4.7	2.3	5.7	5.7	5.3	5.0	4.0	53.3
129	BA 73-373	4.4	4.4	2.7	5.3	7.0	7.0	5.0	3.7	21.0
130	Classic	4.4	4.1	5.0	6.3	6.7	3.7	2.3	3.3	14.7
131	SR 2100	4.4	4.4	3.3	4.3	6.7	7.7	3.3	4.7	32.3
132	Pick 3	4.4	4.6	4.3	4.0	6.7	5.7	4.7	4.7	33.3
133	D3WN 763	4.4	5.3	4.3	5.0	6.7	2.3	7.7	7.7	80.0
134	LKB-95	4.4	4.5	3.7	5.3	6.0	7.7	4.7	4.0	38.3
135	A91-702	4.4	4.7	6.7	4.3	7.0	2.7	7.7	4.3	45.0
136	Sodnet	4.4	4.2	5.0	3.7	6.7	6.7	4.3	3.3	45.0
137	BA 77-102	4.4	4.8	2.3	5.7	6.7	6.0	6.3	7.0	79.0
138	Goldrush	4.4	4.3	2.0	4.3	6.7	8.3	5.7	5.0	42.3
139	PST-A7-245A	4.4	4.1	1.7	3.7	6.7	7.3	3.7	4.0	41.7
140	HV 242	4.3	3.8	4.0	4.3	7.0	5.0	2.3	1.7	8.3

(Continued)

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
		1996-1997 Avg.	1997 Avg.							
141	Pick 855	4.3	4.3	5.3	5.7	4.7	7.0	3.7	3.7	24.3
142	Nugget	4.3	4.1	1.0	2.7	7.0	5.0	5.3	3.7	30.7
143	Eagleton	4.3	4.6	3.6	3.8	4.1	6.2	6.8	6.8	85.3
144	Canterbury	4.3	4.2	5.2	5.8	6.2	3.0	3.2	4.2	26.9
145	JC91 L II	4.3	3.9	2.3	3.7	5.7	5.3	3.7	2.3	14.0
146	BA 75-103	4.3	3.9	4.0	2.7	7.3	4.0	5.3	3.7	45.0
147	Ram I	4.3	4.7	3.0	5.7	6.0	3.3	5.7	5.7	56.7
148	Abbey	4.3	4.1	3.0	5.3	7.0	4.3	4.7	5.3	29.3
149	Nassau	4.2	4.2	5.7	5.3	7.0	2.7	4.3	4.3	25.0
150	PST-BO-165	4.2	4.0	2.0	3.7	7.0	3.7	4.0	3.3	25.0
151	J-1555	4.2	4.2	3.7	5.0	6.0	7.7	4.0	4.3	63.3
152	KB-02-06Ax23	4.2	4.5	3.7	4.0	7.0	3.0	2.7	3.0	28.3
153	Dragon	4.1	4.1	5.7	5.0	6.7	1.0	3.0	3.3	41.7
154	Wx5 955-2	4.1	4.6	4.0	4.0	5.3	5.3	5.7	5.3	58.3
155	BA 81-227	4.1	4.5	1.3	4.0	6.3	3.3	4.0	4.0	49.3
156	PTE	4.1	4.6	5.3	4.3	7.0	2.0	3.3	4.3	29.3
157	Baron	4.1	3.8	1.7	5.3	7.0	4.0	5.3	5.7	63.3
158	KB-02-04x35	4.0	4.1	3.0	3.7	6.7	3.7	2.7	5.0	45.0
159	93KB 9	4.0	4.1	3.0	5.0	6.5	3.5	5.0	4.5	41.0
160	Bel 21	4.0	3.9	2.7	3.9	5.2	6.7	4.3	5.9	76.2

(Continued)

Table 6 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
161 Pepaya	4.0	4.2	3.8	4.3	7.0	2.0	4.7	2.7	16.7
162 Amazon	4.0	4.1	3.8	4.0	6.3	6.0	4.0	3.3	19.3
163 BA 81-113	4.0	3.8	4.1	5.0	7.0	1.7	3.7	4.3	26.7
164 93KB 4	4.0	4.1	3.8	6.0	5.7	2.3	3.7	3.3	24.7
165 NTT 683	3.9	4.1	3.8	2.3	7.0	4.7	3.7	3.0	7.3
166 Merion	3.9	3.7	4.0	3.0	6.3	5.3	5.0	5.0	71.7
167 95-199	3.8	3.9	3.7	4.0	7.0	3.0	2.7	3.0	13.0
168 NJ-54	3.8	3.0	4.6	4.7	6.7	2.3	7.0	6.7	60.0
169 Lipoa	3.8	4.6	3.0	3.0	6.0	3.0	3.0	2.3	19.3
170 BA 75-490	3.8	3.7	3.8	3.3	4.0	4.0	3.0	4.7	69.0
171 Pick 2	3.8	3.2	4.3	3.7	7.0	1.7	3.7	5.3	55.0
172 A88-744	3.8	4.4	3.1	3.0	7.0	5.7	2.0	2.7	14.0
173 93KB 8	3.7	3.8	3.7	4.7	5.3	2.3	4.7	4.0	18.3
174 H90-315	3.7	3.4	3.9	4.2	3.9	7.7	4.5	3.9	64.5
175 BlueStar	3.7	3.8	3.6	3.7	7.0	4.0	3.3	3.0	30.0
176 S-21	3.6	2.9	4.3	3.3	2.7	7.0	6.7	3.7	65.0
177 Baruzo	3.6	4.1	3.0	3.7	4.0	3.3	2.7	2.3	6.7
178 93KB 2	3.6	3.2	4.0	4.7	5.3	3.3	4.0	3.7	46.7
179 LTP-620	3.5	3.3	3.7	5.3	6.3	4.3	2.0	2.7	22.7
180 93 KB1	3.5	3.1	3.9	5.3	5.7	2.3	2.7	3.0	40.0

(Continued)



Table 6 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> March 1997	Bright Green Color <sup>3</sup> Dec. 1997	Leaf Spot <sup>4</sup> April 1997	Stem-ness <sup>5</sup> May 1997	Heat Tolerance <sup>6</sup> July 1997	Drought Tolerance <sup>7</sup> Aug. 1997	Green Turf Cover (%) Aug. 1997
	1996-1997 Avg.	1997 Avg.							
181 BA 76-197	3.5	4.0	2.7	4.0	6.3	4.0	3.7	4.3	43.3
182 Huntsville	3.4	3.7	5.7	3.7	3.0	6.7	5.3	5.3	56.7
183 Pick Vat	3.4	3.6	5.0	3.7	3.7	7.7	3.0	3.7	45.0
184 Sidekick	3.4	3.7	5.0	4.7	5.0	1.7	2.3	4.0	48.3
185 Exp# 1589	3.4	3.8	8.0	4.0	3.0	6.3	5.7	3.0	48.3
186 Compact	3.3	3.6	3.7	3.3	5.7	3.7	2.3	3.3	32.3
187 Kenblue	3.0	3.6	6.3	3.0	2.3	7.7	6.7	4.0	76.7
188 S. Dakota Cert.	2.9	3.3	5.7	2.7	2.3	5.7	4.0	3.3	65.0
LSD at 5% =									
	0.7	1.0	1.5	1.6	1.1	1.8	1.9	1.9	33.5

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

<sup>2</sup>9 = earliest spring green-up

<sup>3</sup>9 = brightest green color

<sup>4</sup>9 = least leaf spot disease

<sup>5</sup>9 = least stemminess

<sup>6</sup>9 = best heat tolerance

<sup>7</sup>9 = best drought tolerance

Table 7. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1995 at North Brunswick, NJ. (Includes NTEP Low Maintenance Test-2.)

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Texture <sup>3</sup> July 1997	Density <sup>4</sup> Aug. 1997
		1996-1997 Avg.	1996 Avg.	1997 Avg.			
1	PST-A7-60	5.5	6.1	4.8	1.8	6.3	4.7
2	SR 2109	5.5	5.0	5.9	4.3	5.7	6.0
3	Bartitia	5.4	5.6	5.1	3.1	6.3	5.3
4	Moonlight	5.3	5.4	5.2	2.4	3.7	4.7
5	Baruzo	5.3	5.7	4.8	2.8	7.0	5.3
6	H94-451	5.1	5.2	5.1	4.3	2.3	4.7
7	Preakness	5.1	4.6	5.6	3.8	5.0	6.3
8	Blackstone	5.1	5.4	4.8	4.0	6.3	5.0
9	Indigo	5.0	5.4	4.6	4.1	5.3	5.3
10	H94-224	5.0	4.7	5.3	3.7	4.0	6.0
11	Bar VB 3115B	5.0	4.6	5.4	3.9	5.0	6.0
12	Ram I	4.9	5.0	4.9	2.5	4.7	4.7
13	Midnight	4.9	5.5	4.4	1.5	3.7	3.7
14	LTP-620	4.9	5.0	4.8	2.9	3.7	3.7
15	Bar VB 6820	4.8	5.2	4.4	2.3	5.0	4.3
16	A91-624	4.7	4.5	4.8	4.9	5.9	4.3
17	Champagne	4.7	5.0	4.3	3.2	4.7	4.0
18	Alpine	4.6	4.9	4.3	2.3	5.7	4.0
19	A90-924	4.6	4.8	4.5	2.9	1.5	3.5
20	H90-1149	4.5	4.5	4.6	3.8	2.7	3.7
21	Crest	4.5	4.7	4.2	3.3	4.3	3.7
22	Eagleton	4.5	4.2	4.8	3.7	3.7	5.3
23	SR 2205	4.5	4.2	4.7	3.0	6.7	4.7
24	BH 95-199	4.4	4.4	4.4	3.6	4.0	3.7
25	Touchdown	4.4	4.7	4.2	4.0	5.0	4.0
26	Dragon	4.4	4.0	4.9	3.9	2.7	4.7
27	A91-625	4.4	4.4	4.4	3.4	4.3	4.7
28	Princeton 104	4.4	4.7	4.1	4.6	2.7	2.7
29	SR 2100	4.4	4.3	4.5	2.4	4.0	5.0
30	Baron	4.3	4.2	4.5	3.0	3.7	5.0

(Continued)

Table 7 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Texture <sup>3</sup> July 1997	Density <sup>4</sup> Aug. 1997
		1996-1997 Avg.	1996 Avg.	1997 Avg.			
31	Baronie	4.3	4.4	4.2	5.3	5.0	4.0
32	Bar VB 233	4.3	4.5	4.1	3.5	3.7	3.3
33	Plush	4.3	3.8	4.7	4.4	3.3	5.7
34	Washington	4.3	4.5	4.0	4.1	4.7	4.7
35	H94-294	4.2	4.4	4.1	2.2	4.3	5.0
36	NJ-1190	4.2	4.7	3.8	4.9	4.0	2.7
37	Bar VB 5649	4.2	4.2	4.3	3.4	3.3	4.0
38	VB 16015	4.2	4.4	4.1	3.7	4.0	4.0
39	P105	4.2	4.4	4.0	3.8	4.7	3.3
40	Bel 21	4.2	3.7	4.6	3.9	5.0	5.3
41	SR 2000	4.1	4.4	3.9	3.9	1.0	3.0
42	A88-744	4.1	4.2	4.0	3.2	4.3	4.3
43	Nassau	4.1	4.0	4.2	4.5	3.7	3.0
44	H94-728	4.1	4.0	4.2	2.4	3.3	5.0
45	Bronco	4.1	4.0	4.2	2.5	2.3	4.3
46	America	4.1	4.3	3.8	3.0	4.0	4.7
47	Monopoly	4.1	3.5	4.6	3.9	4.3	5.0
48	MTT 683	4.1	3.7	4.5	2.3	6.3	4.0
49	H94-283	4.0	4.0	4.1	3.2	3.7	4.7
50	D3 WN 763	4.0	3.2	4.8	4.8	3.3	4.7
51	PST-B9-196	4.0	3.8	4.2	3.7	2.0	3.0
52	Canterbury	3.9	3.8	4.1	4.4	5.0	4.0
53	H94-461	3.9	4.0	3.9	2.8	2.7	3.7
54	Lipoa	3.9	4.2	3.6	3.8	4.7	2.7
55	WXS-955-2	3.7	3.7	3.8	3.4	3.7	4.3
56	Blue Star	3.5	3.9	3.2	3.6	3.3	3.0
57	Caliber	3.5	3.6	3.5	5.4	3.3	3.7
58	Kenblue	3.2	2.6	3.7	6.5	8.0	6.3
59	South Dakota	3.2	2.9	3.4	5.9	7.3	6.0
60	Exp # 1589	3.0	2.6	3.5	6.5	5.3	4.7

(Continued)

Table 7 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup>	Leaf Texture <sup>3</sup>	Density <sup>4</sup>
	1996-1997 Avg.	1996 Avg.	1997 Avg.	April 1997	July 1997	Aug. 1997
LSD at 5% =	0.7	0.8	0.9	1.0	1.6	1.5

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

<sup>2</sup>9 = earliest spring green-up

<sup>3</sup>9 = finest leaf texture

<sup>4</sup>9 = greatest density

Table 8. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1995 at Adelphia, NJ. (Includes NTEP Low Maintenance Test-2.)

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996-1997 Avg.	1996 Avg.	1997 Avg.			
1	Moonlight	5.6	5.6	5.6	4.0	5.2	55.9
2	Liberator	5.5	6.5	4.5	3.3	4.0	46.7
3	Blackstone	5.4	6.1	4.7	4.8	4.7	48.9
4	A93-372	5.4	6.0	4.8	5.3	5.0	40.0
5	Quantum Leap	5.3	6.4	4.3	4.7	4.3	38.3
6	H86-697	5.3	6.2	4.5	4.7	4.7	30.0
7	Glade	5.2	6.0	4.4	3.7	3.3	41.7
8	Preakness	5.2	5.4	5.0	4.3	4.3	45.0
9	Cobalt	5.2	5.5	4.9	3.7	3.7	41.7
10	Rambo	5.2	5.5	4.8	4.7	3.3	36.7
11	A93-417	5.1	5.7	4.6	4.7	4.7	38.3
12	H90-1149	5.1	5.5	4.8	4.3	3.7	41.7
13	Arcadia	5.1	5.7	4.5	4.0	4.3	36.7
14	Odyssey	5.1	5.8	4.4	3.3	4.7	45.0
15	Absolute	5.1	5.1	5.0	3.3	4.3	41.7
16	A93-421	5.0	5.8	4.2	4.0	4.3	33.3
17	A90-287	5.0	5.4	4.6	4.5	4.5	40.8
18	SR 2109	5.0	5.1	4.9	4.7	4.0	46.7
19	NuGlade	5.0	5.9	4.1	4.0	4.3	43.3
20	Impact	5.0	5.6	4.3	3.7	4.3	41.7
21	Conni	4.9	6.1	3.7	2.3	3.3	36.7
22	Rita	4.9	5.2	4.6	5.0	4.0	46.7
23	BAR VB 3115B	4.9	5.1	4.8	4.3	3.0	50.0
24	BAR VB 6820	4.9	5.4	4.3	3.0	4.7	41.7
25	Indigo	4.9	5.4	4.3	5.2	4.2	34.2
26	Wildwood	4.9	4.7	5.1	3.7	4.3	48.3
27	A90-924	4.8	5.4	4.2	4.5	4.7	35.0
28	Total Eclipse	4.8	5.6	4.0	3.3	4.3	35.0
29	Baron	4.8	4.9	4.7	4.3	4.0	46.7
30	Award	4.8	5.4	4.2	2.7	4.3	38.3

(Continued)

Table 8 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996- 1997 Avg.	1996 Avg.	1997 Avg.			
31	LKB-95	4.8	5.3	4.3	4.0	2.7	35.0
32	Pick 247	4.8	5.0	4.5	4.7	4.7	43.3
33	Chateau	4.8	5.1	4.4	5.0	3.7	38.3
34	Goldrush	4.8	4.8	4.7	3.7	4.0	50.0
35	Seabring	4.7	4.7	4.8	3.7	5.0	46.7
36	America	4.7	4.9	4.4	4.0	3.9	45.0
37	Bartitia	4.7	5.0	4.4	4.3	4.0	43.3
38	NJ-1190	4.7	5.0	4.4	5.5	3.5	45.8
39	SRX 2205	4.7	5.3	4.0	4.0	4.0	35.0
40	Eclipse	4.7	5.3	4.1	4.7	4.0	31.7
41	Midnight	4.7	5.4	3.9	2.3	4.3	40.0
42	A82-204 VT	4.7	5.6	3.7	5.0	4.7	31.7
43	H94-451	4.7	5.4	3.9	4.7	4.3	30.0
44	Coventry	4.7	5.3	4.0	4.0	3.0	36.7
45	HV 130	4.6	5.1	4.2	3.7	3.7	33.3
46	BA 73-373	4.6	5.2	4.1	3.3	3.7	40.0
47	PST-B9-196	4.6	4.7	4.5	5.7	5.0	36.7
48	Sydsport	4.6	4.6	4.6	4.3	3.7	45.0
49	VB 16015	4.6	5.0	4.2	6.0	5.3	33.3
50	BAR VB 5649	4.6	4.8	4.5	4.7	4.3	36.7
51	Nimbus	4.6	4.9	4.4	4.0	3.2	40.0
52	PST-A7-60	4.6	4.5	4.7	3.7	5.0	48.3
53	Eagleton	4.6	4.4	4.8	5.0	3.7	55.0
54	Ram I	4.6	4.9	4.3	4.7	3.7	40.0
55	NJ-54	4.6	3.6	5.5	6.0	4.0	46.7
56	Rugby II	4.6	5.5	3.6	3.3	4.3	35.0
57	Liberty	4.6	5.2	4.0	4.3	4.3	33.3
58	PST-BO-141	4.5	4.6	4.4	3.7	3.7	45.0
59	H94-461	4.5	4.6	4.4	4.3	4.7	40.0
60	AG 496	4.5	4.3	4.7	4.7	4.0	41.7

(Continued)

Table 8 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996- 1997 Avg.	1996 Avg.	1997 Avg.			
61	SR 2000	4.5	4.9	4.1	4.5	4.6	36.6
62	Platini	4.5	4.5	4.5	5.7	4.0	33.3
63	C-74	4.5	4.9	4.0	4.0	3.9	37.5
64	Princeton P-105	4.5	5.2	3.9	3.7	3.7	34.2
65	Misty	4.5	4.9	4.1	5.3	4.0	35.0
66	Shamrock	4.5	5.1	3.9	4.9	3.6	30.6
67	PST-B3-180	4.5	4.6	4.4	3.7	4.0	48.3
68	Fortuna	4.5	4.5	4.5	3.7	4.0	50.0
69	BA 81-058	4.5	4.6	4.4	4.3	4.0	38.3
70	Explorer	4.5	5.0	3.9	3.0	4.0	31.7
71	Raven	4.5	4.5	4.4	4.0	4.0	41.7
72	NuStar	4.5	5.0	3.9	3.3	3.7	33.3
73	PST-A7-245A	4.4	4.9	3.9	4.0	4.0	35.0
74	BA 75-173	4.4	4.5	4.4	4.0	3.7	41.7
75	D3WN 763	4.4	3.6	5.2	5.3	3.7	50.0
76	BlueChip	4.4	4.7	4.1	5.0	4.0	35.0
77	Jefferson	4.4	4.6	4.2	5.0	3.2	37.5
78	SR 2100	4.4	5.1	3.8	3.4	3.9	33.4
79	Pick 8-15-94W	4.4	4.6	4.2	4.0	3.7	38.3
80	Challenger	4.4	4.8	3.9	5.0	4.3	40.0
81	BA 81-220	4.4	4.3	4.5	3.7	4.0	40.0
82	PST-BO-165	4.4	4.8	3.9	4.3	4.0	35.0
83	BlueStar	4.4	4.5	4.2	4.3	4.3	43.3
84	Allure	4.3	4.9	3.8	3.7	3.7	36.7
85	ZPS-2183	4.3	3.1	5.5	8.0	6.0	66.7
86	BA 70-060	4.3	4.8	3.9	3.3	4.0	38.3
87	Crest	4.3	4.3	4.4	4.3	3.7	45.0
88	Dragon	4.3	4.0	4.5	5.0	5.0	43.3
89	BAR VB 233	4.3	4.7	3.9	5.0	4.0	28.3
90	AG 508	4.3	5.2	3.4	3.3	4.0	27.3

(Continued)

Table 8 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996- 1997 Avg.	1996 Avg.	1997 Avg.			
91	KBGJB91-B	4.3	4.6	4.0	4.7	4.0	35.0
92	Caliber	4.3	4.2	4.3	5.0	2.7	35.0
93	BA 81-270	4.3	4.3	4.3	4.3	4.0	43.3
94	Baronie	4.3	4.6	3.9	5.7	4.0	30.0
95	Pick 3	4.3	4.5	4.1	5.3	4.0	33.3
96	Compact	4.3	4.3	4.2	4.0	2.7	36.7
97	Champagne	4.3	4.8	3.7	4.1	3.1	28.9
98	Alpine	4.3	4.7	3.8	3.0	4.3	35.0
99	Blacksburg	4.3	3.9	4.6	6.0	5.7	48.3
100	Limousine	4.3	4.5	4.0	5.0	4.0	33.3
101	MED-1580	4.2	5.0	3.5	3.0	3.7	28.3
102	Bronco	4.2	4.3	4.1	3.7	4.7	41.7
103	Wx5 955-2	4.2	4.7	3.7	4.0	3.0	30.0
104	PST-P46	4.2	3.7	4.8	3.3	4.3	51.7
105	J-1555	4.2	4.6	3.8	3.7	3.3	35.0
106	A88-744	4.2	4.6	3.8	3.4	3.9	29.1
107	Cheri	4.2	4.4	4.0	3.7	3.7	33.3
108	H86-690	4.2	4.3	4.1	4.7	3.4	36.7
109	Julia	4.2	5.0	3.4	5.3	3.7	25.0
110	BA 81-227	4.2	4.3	4.1	5.0	3.3	40.0
111	Freedom	4.2	4.7	3.7	5.7	3.7	30.0
112	South Dakota Cert.	4.2	3.8	4.6	7.0	1.3	46.7
113	Baruzo	4.2	5.0	3.5	2.7	2.3	25.0
114	BA 77-102	4.2	4.1	4.3	3.0	3.7	40.0
115	Princeton 104	4.2	4.4	4.0	5.3	3.7	33.3
116	PST-B2-42	4.2	4.5	3.8	3.3	3.7	46.7
117	Livingston	4.2	4.5	3.8	5.0	3.7	30.0
118	Pick 151	4.2	4.3	4.0	4.7	4.0	35.0
119	Canterbury	4.2	4.5	3.9	6.0	3.7	30.0
120	Amazon	4.2	4.7	3.6	4.0	3.7	33.3

(Continued)



Table 8 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996- 1997 Avg.	1996 Avg.	1997 Avg.			
121	A91-625	4.1	4.4	3.8	3.3	3.7	33.3
122	BH 95-199	4.1	4.3	3.9	5.0	3.7	35.0
123	Washington	4.1	4.1	4.2	5.7	2.5	40.9
124	Unique	4.1	4.3	3.9	3.3	4.0	45.0
125	PTE	4.1	4.5	3.7	5.7	4.3	31.7
126	A93-330	4.1	4.8	3.4	4.3	3.7	31.7
127	Ascot	4.1	4.3	3.9	4.0	4.0	38.3
128	H94-283	4.1	3.8	4.4	4.3	3.7	48.3
129	Haga	4.1	4.8	3.4	5.3	3.7	31.7
130	Abbey	4.0	4.0	4.1	5.0	3.7	41.7
131	Chicago	4.0	4.4	3.6	4.0	4.0	28.3
132	BA 75-163	4.0	3.8	4.2	4.7	4.3	35.0
133	Pick 855	4.0	4.1	3.9	5.3	3.7	40.0
134	Classic	4.0	4.8	3.2	5.3	3.0	25.0
135	Cardiff	4.0	3.7	4.2	7.0	4.7	48.3
136	Pick 4	4.0	4.3	3.7	5.0	3.3	31.7
137	NTT 683	4.0	4.0	3.9	3.0	4.7	33.3
138	HV 242	3.9	4.3	3.5	5.0	2.7	28.3
139	H90-315 Muddy PK	3.9	3.5	4.4	5.7	2.3	46.7
140	Fylking	3.9	4.6	3.3	3.7	4.0	26.7
141	Marquis	3.9	3.7	4.1	4.0	3.7	41.7
142	Pepaya	3.9	4.1	3.7	2.7	3.7	30.0
143	Monopoly	3.9	4.1	3.8	3.3	2.7	38.3
144	BA 81-113	3.9	4.1	3.7	4.0	4.3	33.3
145	A91-624	3.9	4.5	3.3	5.4	3.5	31.7
146	Sidekick	3.9	4.1	3.7	4.7	4.3	35.0
147	Suffolk	3.9	4.3	3.4	5.0	3.3	28.3
148	NJ-GD	3.9	4.7	3.0	4.3	2.7	25.0
149	ZPS-309	3.8	3.8	3.8	5.3	4.0	30.0
150	LTP-620	3.8	4.1	3.6	4.3	3.1	31.1

(Continued)

Table 8 (continued).

	Cultivar or Selection	-----Turf Quality <sup>1</sup> -----			Spring Green-up <sup>2</sup> April 1997	Leaf Spot <sup>3</sup> May 1997	Green Cover (%) Aug. 1997
		1996- 1997 Avg.	1996 Avg.	1997 Avg.			
151	Sodnet	3.8	3.8	3.8	4.0	5.0	36.7
152	Bel 21	3.7	3.9	3.5	5.0	2.3	28.3
153	Lipoa	3.7	3.8	3.6	5.3	4.0	41.7
154	Huntsville	3.7	3.7	3.7	5.7	2.3	36.7
155	Nugget	3.7	4.0	3.4	2.3	4.7	31.7
156	Plush	3.7	3.4	3.9	4.0	3.7	48.3
157	Touchdown	3.6	3.5	3.7	5.2	3.0	22.7
158	Kenblue	3.6	2.9	4.3	6.0	1.0	48.3
159	Nassau	3.6	3.9	3.3	4.7	3.3	33.3
160	BA 75-490	3.5	3.8	3.3	6.0	2.3	26.7
161	BA 76-197	3.4	3.6	3.2	4.0	3.7	33.3
162	S-21	3.4	3.1	3.7	6.7	1.7	38.3
163	Exp# 1589	3.2	2.5	3.8	6.0	2.0	36.7
	LSD at 5% =	0.9	1.1	1.0	1.4	1.2	13.5

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

Table 9. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1996 at North Brunswick, NJ.

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Emergence <sup>2</sup> Oct. 1996	Brightest Green Color <sup>3</sup> Nov. 1996	Green Color <sup>4</sup> May 1997
1	J-1576	7.3	7.3	7.7	7.3
2	Rugby II	7.2	6.0	6.7	7.0
3	Total Eclipse	7.2	6.7	6.7	7.3
4	Award	7.1	7.0	7.3	8.0
5	A95-439	7.0	4.7	6.7	7.7
6	H94-324	7.0	6.0	7.3	6.3
7	Liberator	6.7	7.0	7.0	7.3
8	Midnight	6.7	5.3	7.3	7.3
9	NuGlade	6.7	6.7	7.7	7.3
10	H94-329	6.6	5.0	6.3	5.3
11	Blackstone	6.4	7.3	7.3	7.0
12	H94-301	6.4	6.0	4.8	5.3
13	H94-321	6.3	7.7	7.3	5.0
14	A93-453	6.1	6.7	7.3	6.3
15	H92-558	6.1	6.7	7.7	6.3
16	A82-204 VT	6.0	7.3	7.0	6.0
17	H94-451	6.0	6.7	7.7	7.0
18	H94-461	5.9	6.7	6.7	7.0
19	Chicago	5.9	6.7	5.0	6.0
20	Rambo	5.9	6.7	5.7	5.0
21	A93-417	5.9	5.7	7.0	6.7
22	A96-103	5.8	5.7	7.7	7.0
23	A95-414	5.8	4.7	6.0	6.3
24	H94-232	5.8	7.3	5.7	5.7
25	Indigo	5.7	6.0	7.0	5.0
26	A93-372	5.7	5.3	7.7	7.7
27	H94-227	5.6	7.0	4.7	5.0
28	A91-624	5.6	6.7	5.3	5.3
29	Alpine	5.5	6.7	6.0	6.3
30	H94-418	5.5	5.0	8.0	8.7

(Continued)

Table 9 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Emergence <sup>2</sup> Oct. 1996	Brightest Green Color <sup>3</sup> Nov. 1996	Green Color <sup>4</sup> May 1997
31	Ba 82-228	5.5	3.3	7.0	7.0
32	A93-354	5.5	4.2	6.8	6.3
33	A94-362	5.5	6.3	6.3	7.3
34	Princeton P-105	5.5	6.3	5.3	5.3
35	Glade	5.5	7.3	6.3	6.3
36	H86-697	5.4	5.3	7.0	6.7
37	Wildwood	5.4	4.7	7.0	7.3
38	H94-730	5.4	5.4	7.9	6.3
39	Blue Moon	5.4	7.0	6.7	5.3
40	A93-421	5.4	6.3	7.3	6.3
41	A95-1009	5.4	2.7	7.3	8.0
42	A88-744	5.4	3.0	8.0	7.0
43	H94-283	5.3	4.3	8.0	7.7
44	Ba 83-113	5.3	3.0	5.3	7.0
45	America	5.3	6.0	4.3	6.0
46	Limousine	5.3	7.0	6.0	4.0
47	A91-706	5.3	4.7	7.0	5.0
48	Preakness	5.3	7.7	6.7	4.7
49	Champagne	5.3	7.3	6.0	4.7
50	A94-1200	5.2	4.3	6.7	6.0
51	BA 84-021	5.2	2.3	7.0	8.0
52	BA 84-166	5.2	4.7	5.7	7.0
53	H90-1186	5.2	7.0	7.3	4.7
54	A95-410	5.1	6.0	6.7	6.3
55	H94-195	5.1	6.7	7.3	6.0
56	J-1555	5.1	6.7	6.0	5.0
57	Ram I	5.1	7.3	5.0	4.0
58	H90-1190	5.0	6.7	7.3	4.7
59	BlueChip	4.9	6.0	5.3	6.7
60	Julia	4.8	6.7	6.7	4.3

(Continued)

Table 9 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Emergence <sup>2</sup> Oct. 1996	Brightest Green Color <sup>3</sup> Nov. 1996	Green Color <sup>4</sup> May 1997
61	A91-53	4.8	6.0	7.0	5.3
62	A94-363	4.8	5.7	7.3	7.4
63	Nottingham	4.8	7.0	5.0	6.0
64	A93-330	4.7	7.0	4.7	5.0
65	H94-347	4.7	4.7	7.0	6.3
66	NuStar	4.7	5.7	5.0	3.7
67	Eagleton	4.7	6.7	4.3	4.0
68	Baron	4.7	6.0	5.3	6.0
69	Eclipse	4.7	5.0	4.7	4.7
70	Dellwood	4.5	7.3	6.3	5.0
71	A91-625	4.5	6.7	7.0	5.3
72	Bel 21	4.4	7.3	3.0	3.0
73	Cheri	4.3	6.3	5.3	5.0
74	Caliber	4.3	5.0	5.0	4.7
75	Shamrock	4.2	7.3	5.3	4.0
76	Classic	4.2	4.7	4.0	3.3
77	Touchdown	4.2	5.3	5.0	3.3
78	Ba 82-230	4.0	6.7	7.0	4.7
79	H90-315 Muddy Pk	4.0	7.0	4.3	3.0
80	Nassau	4.0	4.3	4.7	5.0
81	Dragon	4.0	6.3	4.7	4.0
82	BA 84-176	3.0	1.7	6.7	8.7
83	Kenblue	2.8	7.7	5.3	3.7
	LSD at 5% =	0.8	1.1	1.0	0.9

<sup>1</sup>9 = best turf quality<sup>2</sup>9 = best emergence<sup>3</sup>9 = brightest green color<sup>4</sup>9 = darkest green color

Table 10. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 1996 at Adelphia, NJ.

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Establishment <sup>2</sup> Oct. 1996	Green Color <sup>3</sup> Nov. 1996	Bright Color <sup>4</sup> March 1997
1	Total Eclipse	7.4	6.0	6.7	4.7
2	Liberator	7.1	6.3	7.0	4.0
3	Moonlight	7.0	6.3	8.0	4.7
4	Midnight	7.0	6.0	7.0	3.3
5	Impact	7.0	6.7	6.3	4.3
6	Award	6.8	6.3	6.7	3.3
7	A95-439	6.7	5.0	4.7	4.3
8	NuGlade	6.6	6.3	7.3	4.0
9	A93-417	6.6	6.7	6.0	5.3
10	Blackstone	6.5	7.0	7.0	5.3
11	Rugby II	6.5	6.3	6.7	3.3
12	A96-103	6.4	6.0	7.0	5.7
13	H86-697	6.4	6.0	6.3	5.7
14	H94-301	6.3	6.6	3.4	4.9
15	A93-372	6.3	6.3	7.0	5.3
16	H94-747	6.2	5.3	7.7	4.3
17	A82-204	6.2	7.3	5.0	4.7
18	H92-558	6.0	6.3	6.0	4.3
19	A95-414	6.0	5.7	4.0	3.7
20	A94-1200	6.0	5.7	5.0	4.3
21	SRX 2205	5.9	7.0	3.7	4.0
22	A95-1009	5.9	4.7	6.0	5.7
23	H94-461	5.9	6.3	3.3	4.7
24	Indigo	5.9	5.7	6.0	4.7
25	A93-421	5.9	6.7	5.3	4.0
26	H94-324	5.9	6.3	7.0	3.7
27	A94-362	5.9	6.0	4.7	3.3
28	A94-351	5.9	6.0	2.7	5.3
29	Caliber	5.8	5.7	4.7	6.3
30	A94-359	5.8	6.7	2.7	5.0

(Continued)

Table 10 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Establishment <sup>2</sup> Oct. 1996	Green Color <sup>3</sup> Nov. 1996	Bright Color <sup>4</sup> March 1997
31	A93-453	5.8	6.3	7.0	4.7
32	Blue Moon	5.8	7.0	5.0	3.7
33	A94-752	5.8	5.7	9.0	4.7
34	H94-451	5.8	5.7	7.0	5.3
35	Wildwood	5.8	6.0	6.3	4.0
36	H90-1186	5.8	7.0	7.0	6.3
37	Preakness	5.8	7.3	7.0	5.7
38	Limousine	5.7	6.0	4.7	4.0
39	H94-418	5.7	5.3	8.3	5.0
40	H94-195	5.7	6.7	7.0	4.0
41	H90-1190	5.7	7.0	7.7	6.3
42	A85-301	5.6	4.0	7.0	4.0
43	H94-321	5.6	6.5	6.9	4.9
44	Julia	5.6	6.3	5.0	5.0
45	Rambo	5.6	6.7	3.7	4.7
46	SR 2109	5.6	5.0	4.0	5.3
47	H94-232	5.5	7.0	6.7	4.3
48	Princeton P-105	5.5	5.3	3.0	3.0
49	H94-730	5.5	6.2	7.5	4.5
50	A94-363	5.5	5.9	5.4	5.5
51	A91-53	5.5	6.0	4.3	5.7
52	Jefferson	5.4	6.7	3.0	5.7
53	Shamrock	5.4	6.0	3.7	4.3
54	A88-744	5.4	4.3	7.0	4.7
55	H94-227	5.4	6.0	3.0	4.3
56	America	5.4	6.3	3.0	5.0
57	A93-200	5.4	6.7	3.3	3.3
58	A91-706	5.4	5.7	5.3	4.0
59	H94-690	5.4	6.3	6.0	4.7
60	A94-706	5.4	6.0	5.0	4.7

(Continued)

Table 10 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Establishment <sup>2</sup> Oct. 1996	Green Color <sup>3</sup> Nov. 1996	Bright Color <sup>4</sup> March 1997
61	Champagne	5.4	7.0	3.3	4.7
62	A93-330	5.4	6.7	2.7	4.3
63	H94-700	5.4	5.5	8.0	4.0
64	Eclipse	5.3	5.7	3.0	4.3
65	SR 2000	5.3	4.3	3.3	4.3
66	H94-347	5.3	5.7	6.3	5.0
67	A91-625	5.2	6.7	4.0	4.3
68	Belturf	5.2	6.0	6.0	4.3
69	SRX 2207B	5.2	5.0	3.0	3.3
70	A95 410	5.2	6.3	3.7	4.7
71	H94-283	5.2	5.7	7.3	4.0
72	Ba 82-228	5.2	5.0	4.7	4.7
73	A91-624	5.2	6.0	3.0	4.3
74	H94-220	5.2	6.0	6.3	4.3
75	JV 91 I	5.2	5.7	2.3	3.0
76	A93-354	5.2	5.2	4.7	5.2
77	Shamrock	5.1	7.0	3.0	3.7
78	Ba 83-113	5.1	4.7	2.3	4.3
79	Ba 84-021	5.1	3.7	4.0	4.7
80	Baron	5.1	5.3	2.7	3.0
81	Cheri	5.1	5.7	3.0	3.3
82	Chicago	5.1	6.0	3.3	4.3
83	Shade Blue	5.1	7.0	3.0	5.7
84	A93-201	5.0	7.0	3.7	3.7
85	PTE	5.0	4.3	2.3	4.3
86	Ba 84-166	5.0	6.0	3.3	3.0
87	JC 91 L2	4.9	6.7	2.7	3.0
88	SR 2100	4.9	5.7	4.0	2.7
89	Eagleton	4.9	7.0	2.0	4.0
90	H94-352	4.8	6.3	3.9	3.9

(Continued)



Table 10 (continued).

	Cultivar or Selection	Turf Quality <sup>1</sup> 1997 Avg.	Establishment <sup>2</sup> Oct. 1996	Green Color <sup>3</sup> Nov. 1996	Bright Color <sup>4</sup> March 1997
91	J-1555	4.8	6.3	5.0	3.7
92	A90-1143	4.8	6.0	6.0	4.0
93	Washington	4.8	7.3	4.0	5.7
94	Ba 84-176	4.8	2.7	5.0	4.3
95	Nottingham	4.8	6.0	3.0	3.0
96	Unique	4.7	5.3	2.7	5.0
97	A93-464	4.7	7.0	6.3	4.7
98	A91-703	4.7	7.0	4.0	4.0
99	A91-702	4.7	7.3	4.3	4.0
100	H86-690	4.7	5.3	4.3	4.0
101	Alpine	4.7	5.7	5.3	2.3
102	H94-314	4.7	6.3	5.0	5.3
103	Touchdown	4.6	5.7	2.3	3.7
104	Blue Chip	4.6	4.7	4.3	2.7
105	J-333	4.6	7.3	5.3	3.7
106	Nassau	4.5	5.3	2.0	4.3
107	Dellwood	4.3	6.7	4.7	5.3
108	Bel 21	4.3	7.3	2.3	3.7
109	Dragon	4.3	5.7	3.0	3.7
110	Ba 82-230	4.2	6.3	4.7	4.3
111	PST BM3	4.1	6.7	2.3	5.3
112	H90-315 Muddy Pk	4.0	6.7	2.3	3.7
113	Classic	4.0	5.0	1.3	4.7
114	OFI-25	4.0	5.7	4.0	4.3
115	Eagleton	3.6	6.3	2.0	5.0
116	Kenblue	3.4	7.7	3.0	4.0
117	CNC	3.0	3.7	2.7	3.0
	LSD at 5% =	1.0	0.9	1.6	1.2

<sup>1</sup>9 = best turf quality<sup>2</sup>9 = best establishment<sup>3</sup>9 = darkest green color<sup>4</sup>9 = brightest green color

Table 11. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in the greenhouse in 1996 at North Brunswick, NJ. (1995 NTEP Medium-High Maintenance Test entries only.)

	Cultivar or Selection	Powdery Mildew <sup>1</sup> 1997 Avg.
1	Unique	9.0
2	Conni	9.0
3	Compact	9.0
4	PST-B2-42	9.0
5	PST-B3-180	9.0
6	Baruzo	9.0
7	LKB-95	9.0
8	Glade	8.7
9	Ba 75-490	8.3
10	BAR VB 3115B	8.3
11	SRX-2205	8.3
12	Blackstone	8.3
13	Misty	8.0
14	Moonlight	7.7
15	Princeton P-105	7.7
16	Pick 8-15-94W	7.7
17	PST-BO-141	7.7
18	SR 2000	7.3
19	HV 130	7.3
20	America	7.0
21	Kenblue	6.7
22	Rambo	6.7
23	Pick-855	6.3
24	Eclipse	6.3
25	Ba 76-197	5.7
26	Wildwood	5.7
27	PST-P46	5.7
28	Sidekick	5.7
29	Limousine	5.3
30	MED-1580	5.3

(Continued)

Table 11 (continued).

	Cultivar or Selection	Powdery Mildew <sup>1</sup> 1997 Avg.
31	Ascot	5.3
32	Ba 81-227	5.0
33	Blacksburg	4.7
34	SR 2109	4.7
35	NJ-GD	4.3
36	Seabring	4.0
37	NJ-1190	4.0
38	ZPS-2183	3.7
39	Nimbus	3.7
40	BAR VB 5649	3.7
41	Platini	3.3
42	ZPS-309	3.3
43	BAR VB 233	3.3
44	Jefferson	3.3
45	Allure	3.3
46	PST-A7-60	3.0
47	Caliber	3.0
48	Shamrock	3.0
49	Ba 81-270	3.0
50	Bartitia	3.0
51	HV-242	3.0
52	NJ-54	3.0
53	Cardiff	3.0
54	Ba 75-163	3.0
55	PST-BO-165	3.0
56	PST-A7-245A	3.0
57	Champagne	2.7
58	LTP-620	2.7
59	Raven	2.7
60	Challenger	2.7

(Continued)

Table 11 (continued).

	Cultivar or Selection	Powdery Mildew <sup>1</sup> 1997 Avg.
61	Ba 77-702	2.7
62	BAR VB 6820	2.7
63	Explorer	2.7
64	Absolute	2.7
65	Haga	2.3
66	Marquis	2.3
67	Abbey	2.3
68	Coventry	2.3
69	Sodnet	2.3
70	Chateau	2.3
71	Lipoa	2.3
72	Pepaya	2.3
73	J-1555	2.3
74	Livingston	2.0
75	Baron	2.0
76	Fortuna	2.0
77	Ba 75-173	2.0
78	Goldrush	2.0
79	Ba 70-060	2.0
80	Ba 73-373	2.0
81	Ba 81-113	2.0
82	Ba 81-220	2.0
83	Dragon	2.0
84	VB 16015	2.0
85	NuStar	2.0
86	MED-1991	2.0
87	Chicago	2.0
88	H86-690	2.0
89	NuGlade	1.7
90	SR 2100	1.7

(Continued)

Table 11 (continued).

	Cultivar or Selection	Powdery Mildew <sup>1</sup> 1997 Avg.
91	A88-744	1.7
92	Ba 81-058	1.7
93	Baronie	1.7
94	Arcadia	1.7
95	Quantum Leap	1.7
96	Total Eclipse	1.3
97	Odyssey	1.3
98	Impact	1.3
99	Midnight	1.0
100	Classic	1.0
101	Rugby II	1.0
102	Liberator	1.0
103	Award	1.0
	LSD at 5% =	1.1

<sup>1</sup>9 = least powdery mildew

Table 12. Yearly nitrogen (N) applied and mowing height (Ht) on Kentucky bluegrass tests established at North Brunswick and Adelphia, NJ.

	1995		1996		1997	
	N <sup>1</sup>	Ht <sup>2</sup>	N	Ht	N	Ht
Table 1 (1993 Adelphia) .....	5.5	2.0	2.1	1.5	3.3	1.5
Table 2 (1994 Adelphia) .....	5.6	1.5	3.6	1.5	2.8	1.5
Table 3 (1994 Adelphia) .....	6.6	1.5	3.6	1.5	2.8	1.5
Table 4 (1994 Adelphia) .....	0.7	2.5	0.0	2.5	0.7	2.5
Table 5 (1995 North Brunswick) .....			3.8	1.5	4.6	1.5
Table 6 (1995 Adelphia) .....			4.9	1.5	5.2	1.5
Table 7 (1995 North Brunswick) .....			1.6	3.0	1.7	3.0
Table 8 (1995 Adelphia) .....			1.9	2.5	0.7	2.5
Table 9 (1996 North Brunswick) .....					3.7	1.5
Table 10 (1996 Adelphia) .....					4.3	1.5

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

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