

# RUTGERS

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Experiment Station

## **2016 Turfgrass Proceedings**

***The New Jersey Turfgrass Association***

In Cooperation with  
Rutgers Center for Turfgrass Science  
Rutgers Cooperative Extension



# **2016 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, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey in cooperation with the New Jersey Turfgrass Association. The purpose of this document is to provide a forum for the dissemination of information and the exchange of ideas and knowledge. The proceedings provide turfgrass managers, research scientists, extension specialists, and industry personnel with opportunities to communicate with co-workers. Through this forum, these professionals also reach a more general audience, which includes the public.

This publication includes lecture notes of papers presented at the 2016 GREEN EXPO Turf and Landscape Conference. Publication of these lectures provides a readily available source of information

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

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

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

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

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Kentucky bluegrass (*Poa pratensis* L.) is a cool season turfgrass that is widely used throughout the northern United States and Canada. Kentucky bluegrass forms rhizomes and has an apomictic mode of reproduction, two important traits. Drawbacks include, however, a slow germination rate, poor performance in shade and low fertility (Turgeon, 2008), and high water requirements to prevent dormancy during warmer and drier conditions.

The extensive rhizome system of Kentucky bluegrass is an important trait for sodded turfgrass. These underground stems allow for rapid spread, strength, and colonization after establishment and are responsible for quick recovery from damage and an enhanced recuperative potential after wear. Rhizome growth is desirable in home lawns and especially in sports fields, where durability is as critical as a uniform playing surface to help improve player safety.

Kentucky bluegrass has the ability to reproduce asexually through seed, an ability known as apomixis. This process is facultative in the species; some sexual reproduction occurs, but this trait is selected against in breeding programs. Only highly apomictic Kentucky bluegrasses are desirable for turfgrass use, which contributes to most of the uniformity seen in cultivars of this species and allows fixing of hybrid superior plants indefinitely. While there are many advantages to apomixis in the species, it does pose some challenges to breeders, including obtaining hybrids and retaining high levels of apomixis in the new hybrids. Management challenges include the vulnerabilities of a monoculture, which can be overcome by blending cultivars or mixing species.

Texas bluegrass (*Poa arachnifera* Torr.), a species native to the American Southwest, is dioecious

and is much more tolerant of heat and drought stress than Kentucky bluegrass. Crosses between Texas bluegrass female plants and Kentucky bluegrass are made to improve the heat and drought tolerance of Kentucky bluegrass hybrids and to increase its adapted range into the warmer climates.

Collections around the world to obtain new germplasm is important to broaden the genetic basis of these *Poa* species. These collections are utilized by breeders to enhance resistance to diseases, pests and abiotic stresses in new cultivars. In addition to breeding work, Rutgers also participates in the National Turfgrass Evaluation Program (NTEP) and the Cooperative Turfgrass Breeders Test (CTBT). NTEP, coordinated through the USDA Beltsville Agricultural Research Center and National Turfgrass Federation, is a program where many institutions cooperate nationwide to test different turfgrass cultivars and selections in different environments to assess their performance in a broad range of locations. CTBT is a similar program, focusing on testing larger numbers of potential cultivars nationwide to determine which cultivars could then be entered into the NTEP.

## PROCEDURES

Six Kentucky bluegrass trials were seeded from 2011 to 2013. All of these trials (Tables 1 to 6) were located at the Rutgers Plant Science Research and Extension Farm at Adelphia, NJ. Table 1 includes all entries from the 2011 NTEP trial; Table 5 includes entries from the 2014 CTBT test.

The trials were planted by sowing a maximum of 0.53 oz of seed in 3 x 5 ft plots. This maximum rate is equivalent to 2.2 lb of seed per 1000 ft<sup>2</sup>. The

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trials were all arranged in a randomized complete block design with three replications. Annual nitrogen rates as well as the mowing heights for each trial are presented in Table 7. The amount and timing of N applied to the turf varied to prevent disease or foster recovery from various stresses. Single nitrogen application rates never exceeded 0.75 lb per 1000 ft<sup>2</sup>. Mowing heights were maintained by using a reel mower at 1.5 inches for all tests.

After establishment, annual weeds were controlled using spring and summer applications of Dimension, and broadleaf weeds were controlled with spring and fall applications of 2,4-D, dicamba, and MCPP. Merit and/or acelepryn was applied in July to control grubs on all tests. Depending on soil test results, soil pH was maintained between 6.0 and 6.5 with granular dolomitic limestone. Tests were irrigated during establishment and also when needed to avoid severe drought stress.

Monthly ratings of all trials were conducted throughout the growing season for overall quality. Overall turf quality ratings are visual assessments that take into account color, brightness, leaf texture, density, uniformity, damage due to disease and insects, and overall attractiveness of the plot. Data for all trials were statistically analyzed using analysis of variance, and means were separated using Fisher's protected least significant difference (LSD) means separation test. Results in Tables 1 to 5 are ranked according to the best overall turf performance (multiple-year quality average); entries in Table 6 are ranked by turf quality in 2016. In addition to overall quality ratings, supplementary ratings were taken when differences became evident within the trials. These additional ratings include, genetic color (Table 1), spring green-up (Tables 1 to 5), leaf spot (Tables 2, 6), wear quality and wear recovery (Tables 4, 5), summer patch (Tables 4, 5) and establishment (Table 6).

## RESULTS

### Spring Green-up

This trait depicts the wide range of genetic diversity within Kentucky bluegrass. Due to an increase in leaf elongation that occurs in response to increases in temperature and photoperiod (Parsons and Robson, 1980), cultivars adapted to the central northeast region are more sensitive to these conditions and may green up earlier in the spring. Cultivars and selections

that are adapted to higher latitudes need more dramatic changes in temperature and photoperiod before spring green-up will begin. Midnight types are known for slower green-up compared to other types. Cultivars and selections such as TD-8, Kenblue, Malbec, and Camas began growing and greening up much earlier in the spring, whereas cultivars and selections such as Bedazzled, Blue Coat, Blue Devil, and Solar Eclipse were slower to green up (Tables 1 to 5).

### Wear Quality

The ability of a turf stand to handle wear is an important trait to maintain the long-term quality and playability of the surface. Kentucky bluegrass is used extensively for sports fields in temperate climates due to its rhizomatous growth habit. Rhizomes help the turf recover from wear stress to form a uniform turf stand. As a result, the demand for traffic tolerant Kentucky bluegrass has continued to rise. Wear was simulated by using a novel wear simulator (Bonos et al., 2001), which is an engine-driven device with rotating rubber paddles that repeatedly hit the turf. Cultivars and selections that maintained a high level of quality while under wear stress included A07-782, A11-25, T12-31, AKB2839, and Jumpstart. Cultivars and selections that exhibited lower quality after wear simulation included Camas, PST-T13-32, TD-4, and RAD-2360 (Tables 4, 5).

### Wear Recovery

The ability of a turf stand to recover from wear is important. With the extensive use of Kentucky bluegrass in sporting fields, it is important to notice that there will be times when the turf will be damaged from excessive use and areas of the field that are under so much wear that damage is inevitable. In those areas, wear recovery will be the most important trait to maintain green and uniform coverage. Wear recovery was rated 16 days after the original ratings for wear, which gave the turf some time to begin recovery. Cultivars and selections such as A11-41, A07-782, A07-1233, Hampton, PST-T14-38, and PST-T14-35 recovered well within the 16 day period, while Lunar, PST-K14-154, and RAD-2360 were slower to recover (Tables 4, 5).

### Establishment

Green cover after establishment is an important characteristic for consumers, sod-growers, and other turf managers. Kentucky bluegrass is one of the slowest cool-season grasses to form a mature turfgrass

stand. Establishment can be influenced by a variety of factors such as genetics, seed quality environment, management practices, and after-ripening dormancy. Other characteristics that affect establishment and seedling vigor include age of the seed, storage conditions, and environmental conditions, especially night time temperatures over 70°F, at the time of seeding. Establishment ratings (Table 6) were taken on a 1 to 9 scale where 9 represents a plot that has filled in completely. Selections such as A07-305, J-1136, and Blue Devil had high ratings for establishment, while Gateway, Alexa II, and Bewitched did not rate well for this trait.

### Genetic Color

Contrary to other areas of the world, dark green turfgrasses are typically more appealing to the American populace than are lighter green varieties. Breeding for darker green verdure in Kentucky bluegrass varieties is one focus of the Rutgers turfgrass breeding program. Although genetic color of the cultivar is taken into account when assessing the overall quality rating, individual measures of the depth of green color for each cultivar was also performed. While the darkest selections include J-1136, Legend, and Midnight, the lightest selections include Zedor, Pick MD07, Kenblue, and BAR VV 0709 (Table 1).

### SUMMARY

Kentucky bluegrass is a very versatile and durable turfgrass that is used under a variety of field and management conditions. Competition with more heat and drought tolerant species of cool season grasses is the biggest challenge facing Kentucky bluegrass, though there is still a high demand for cultivars that produce a durable, high quality turf under a broad

range of conditions. The rhizomes produced by the species is a key trait that enhances recovery from stressful conditions such as wear, heat, and drought. Improvements in reducing drought and heat induced dormancy as well as disease and pest resistance are the critical characteristics needed to keep Kentucky bluegrass a relevant species for use as a turfgrass.

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Table 1. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2011 at Adelphia, NJ. (Includes all entries from the 2011 NTEP Kentucky Bluegrass Test.)

Cultivar or Selection	Turf Quality <sup>1</sup>					Spring Green-up <sup>2</sup> 16 March 2016	Color <sup>3</sup> 14 Oct. 2016
	2012-2016 Avg.	2012 Avg.	2013 Avg.	2014 Avg.	2015 Avg.		
1 J-1770	6.5	6.9	6.1	6.3	6.4	6.7	7.3
2 J-1136	6.4	7.2	6.4	6.0	6.2	6.5	8.3
3 Martha	6.4	6.6	5.7	6.3	6.1	7.1	7.7
4 Bluebank	6.3	6.8	6.1	5.9	6.2	6.5	8.0
5 J-1853	6.3	6.8	6.3	5.7	6.0	6.6	6.7
6 Blue Note	6.3	6.0	6.5	6.2	6.0	6.7	7.3
7 A05-361	6.2	6.1	6.2	6.4	6.2	6.1	7.3
8 Keeneland	6.1	6.2	6.4	5.6	5.6	6.8	7.7
9 Legend	6.0	6.2	5.9	5.7	5.9	6.6	8.3
10 Sudden Impact	6.0	6.6	5.9	5.3	5.8	6.3	7.7
11 BAR Pp 110358	6.0	5.1	6.3	5.8	6.6	6.1	6.0
12 Pick 4340	6.0	6.5	6.2	5.0	5.8	6.2	7.7
13 SRX 4338	5.9	6.5	5.9	5.5	5.4	6.2	7.3
14 Arrowhead	5.9	5.4	5.8	6.1	6.0	6.3	6.7
15 Pick 033	5.9	6.1	5.9	5.8	5.7	6.1	7.0
16 Midnight	5.9	6.4	5.5	5.3	6.0	6.1	8.3
17 Nu Chicago	5.8	6.3	6.0	4.9	5.9	6.0	8.0
18 Skye	5.8	5.6	5.6	5.7	5.8	6.1	6.7
19 SRX 2758	5.7	6.4	5.8	4.9	5.9	5.4	7.0
20 SRX 466	5.7	6.0	5.6	5.5	5.6	5.8	6.7
21 A05-360	5.7	5.6	5.2	5.9	5.6	6.0	6.7
22 A00-2882	5.7	5.5	5.3	5.7	5.6	6.1	7.3
23 PST K9-90	5.6	5.3	5.5	6.1	5.7	5.5	6.7
24 Avid	5.6	5.1	5.8	5.0	5.7	6.4	7.3
25 A01-1106	5.6	5.8	5.0	5.9	5.3	6.0	7.0

(Continued)

Table 1. Kentucky bluegrass turf trial, 2011 (NTEP) (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 16 March 2016	Color <sup>3</sup> 14 Oct. 2016
	2012-2016 Avg.	2012 Avg.	2013 Avg.	2014 Avg.	2015 Avg.		
26 A04-38	5.5	4.8	5.6	5.7	5.8	4.3	7.0
27 Empire	5.5	5.0	4.9	5.4	5.8	6.0	7.3
28 A00-4199	5.5	5.5	5.8	5.2	5.3	4.0	7.7
29 A06-26	5.5	5.4	5.9	5.0	5.4	6.0	7.3
30 Mazama	5.5	5.3	5.7	5.0	5.4	5.3	8.0
31 Burl 3-51	5.5	5.6	5.5	5.1	5.3	5.3	7.7
32 Rubix	5.5	5.2	5.2	5.3	5.9	5.7	6.7
33 Award	5.4	5.0	5.5	5.5	5.6	2.3	7.7
34 Oasis	5.4	4.8	5.5	5.2	5.5	9.0	7.7
35 Pick TD8	5.4	5.0	5.6	5.8	5.2	5.7	6.3
36 Dauntless	5.4	5.2	5.7	5.5	5.2	4.7	6.7
37 Merlot	5.4	5.4	5.3	4.8	5.3	6.0	7.0
38 Fargo	5.4	5.0	5.5	4.9	5.4	5.0	6.7
39 Bolt	5.3	5.1	5.1	5.1	5.5	7.7	5.7
40 RAD-849	5.3	5.5	5.3	5.5	5.1	5.7	6.0
41 BAR 12PP 612	5.3	5.3	5.2	5.7	5.2	6.0	5.7
42 Rush	5.3	6.2	5.3	6.1	4.5	4.0	7.3
43 Endurance	5.3	4.5	5.6	5.7	5.1	4.7	7.0
44 PST-T10-18	5.2	5.4	4.5	5.4	5.2	7.0	6.3
45 Cabernet	5.2	4.5	5.1	5.6	5.5	5.0	6.7
46 SRX 5321	5.2	4.8	5.6	4.9	5.4	4.3	6.7
47 Jack Rabbit	5.2	5.1	5.3	5.5	5.1	6.3	5.7
48 BAR 8PP 504	5.2	5.1	5.0	5.5	5.5	4.0	6.0
49 Burl 06-11	5.2	4.9	5.4	4.7	5.5	6.3	7.0
50 Aramintha	5.1	5.2	4.8	5.5	5.2	3.3	5.7

(Continued)

Table 1. Kentucky bluegrass turf trial, 2011 (NTEP) (continued).

Cultivar or Selection	Turf Quality <sup>1</sup>					Spring Green-up <sup>2</sup> 16 March 2016	Color <sup>3</sup> 14 Oct. 2016
	2012-2016 Avg.	2012 Avg.	2013 Avg.	2014 Avg.	2015 Avg.		
51 Blue Coat	5.1	4.7	4.9	5.5	5.3	2.3	8.0
52 PST-K9-97	5.1	3.8	5.4	5.9	5.1	4.3	5.7
53 Lunar	5.1	5.9	4.9	5.2	4.6	4.3	7.7
54 A06-47	5.1	4.3	5.1	5.1	5.3	6.0	7.0
55 A05-TB-382*	5.0	5.4	4.8	4.7	5.0	5.3	7.0
56 Zinger	4.9	4.5	5.0	5.5	4.8	4.0	6.0
57 Zedor	4.9	4.5	4.6	5.2	5.0	5.7	5.3
58 America	4.9	4.4	4.6	4.7	5.3	5.3	7.3
59 PST-K4-3	4.9	5.1	4.9	4.6	5.1	6.0	5.7
60 BAR VV 0709	4.9	4.7	4.9	5.2	4.9	7.3	4.0
61 A98-363	4.9	4.8	5.0	4.7	5.2	6.3	6.0
62 RAD-1492	4.8	4.5	5.0	5.4	4.6	4.3	7.0
63 Waterworks	4.8	4.4	4.8	4.7	4.8	5.0	7.3
64 A05-999	4.8	4.3	4.7	5.2	5.1	6.3	6.3
65 BAR VV-112916	4.8	5.2	4.1	5.2	4.6	8.0	6.7
66 BAR VV 118532	4.7	4.3	4.3	5.2	4.7	6.0	6.3
67 Pick TD9	4.6	4.7	4.7	5.0	4.7	4.3	7.3
68 Shamrock	4.6	3.8	4.7	4.7	4.7	5.0	6.7
69 BAR Pp 119326	4.5	4.4	4.2	4.7	4.6	5.7	6.3
70 RAD-507	4.5	4.2	3.8	4.0	5.0	6.7	7.0
71 Pick MD07	4.5	4.0	4.0	5.4	4.3	5.3	5.0
72 Geisha	4.4	4.2	4.7	4.9	4.3	3.3	6.7
73 Baron	4.3	3.9	4.1	4.2	4.7	4.7	6.0
74 Thermal Blue	4.3	4.3	4.1	4.5	4.7	5.3	5.7
75 PST-K9-99	4.3	3.8	3.6	4.2	4.7	5.0	6.0

(Continued)



Table 1. Kentucky bluegrass turf trial, 2011 (NTEP) (continued).

Cultivar or Selection	Turf Quality <sup>1</sup>					Spring Green-up <sup>2</sup> 16 March 2016	Color <sup>3</sup> 14 Oct. 2016
	2012-2016 Avg.	2012 Avg.	2013 Avg.	2014 Avg.	2015 Avg.		
76 Aretesia	4.3	3.6	4.1	4.6	4.5	4.7	6.3
77 3733	4.3	3.5	4.4	4.0	4.6	4.3	6.7
78 BAR Pp 119327	4.2	4.0	3.8	4.2	4.6	5.3	6.3
79 AKB 2555	4.2	3.5	4.2	4.1	4.7	4.0	5.7
80 Barduke	4.2	4.0	3.5	4.0	4.5	5.7	6.3
81 Blackjack	4.1	3.9	3.6	4.2	4.0	5.3	6.7
82 Kenblue	3.5	3.6	3.8	3.8	3.1	7.0	4.3
LSD at 5% =	0.5	0.6	0.7	0.9	0.6	1.4	1.5

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

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

<sup>3</sup>9 = best genetic color

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background

Table 2. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2012 at Adelphia, NJ.

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
1 GO-12R26-28	6.1	6.1	6.0	6.2	6.2	1.7	5.7
2 Midnight II	5.9	6.4	5.2	5.6	6.4	2.7	6.3
3 Endurance	5.9	5.6	6.1	5.8	6.2	5.0	5.3
4 A00-1400	5.9	6.4	5.4	5.4	6.3	5.3	8.0
5 2683-10K	5.9	6.2	5.9	5.7	5.6	7.7	4.3
6 Impact	5.8	6.5	5.1	5.5	6.3	3.3	7.3
7 Pick 033	5.8	6.5	6.1	5.6	4.9	7.0	3.0
8 A06-33	5.8	6.1	6.1	5.2	5.6	7.3	6.7
9 PST-K11-123	5.8	5.4	6.1	6.3	5.3	5.3	5.7
10 Quantum Leap	5.7	6.6	5.1	5.0	6.0	2.0	7.3
11 A05-361	5.7	6.0	5.8	5.5	5.4	7.3	5.0
12 PST-T10-17	5.7	6.2	5.2	5.2	6.0	3.7	6.3
13 A04-69	5.6	6.2	5.5	5.6	5.2	6.3	3.0
14 Blue Chip	5.6	6.2	4.7	5.4	6.2	3.0	6.7
15 A11-26	5.6	6.3	5.5	5.3	5.4	2.0	5.3
16 Mazama	5.6	5.7	5.0	5.2	6.6	5.7	8.3
17 A10-249	5.6	6.3	5.4	5.3	5.3	6.3	6.3
18 Blue Velvet	5.6	6.3	4.7	5.3	5.9	1.7	6.3
19 Hampton	5.6	5.9	5.6	5.1	5.6	6.0	5.0
20 PST-T12-31	5.5	5.3	5.3	6.1	5.4	4.0	6.7
21 A10-280	5.5	6.6	5.3	5.1	5.1	5.3	5.3
22 A99-2897	5.5	5.8	5.0	5.4	5.9	5.7	8.0
23 Diva	5.5	5.8	5.7	4.8	5.7	6.3	6.7
24 Pivot	5.5	5.1	6.0	5.4	5.4	3.3	6.0
25 GO-12R22B-23	5.5	5.4	5.4	5.7	5.5	2.0	5.3

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
26 Bluebank	5.5	5.9	4.6	5.3	6.2	2.0	6.3
27 Legend	5.5	5.7	5.2	5.0	5.9	5.3	6.7
28 Desert Moon	5.4	5.8	5.3	5.2	5.4	4.3	7.0
29 A07-5	5.4	5.6	5.9	5.2	5.1	5.3	5.7
30 A00-4199	5.4	6.0	5.3	5.4	5.0	2.7	6.3
31 Touche	5.4	5.3	5.8	4.9	5.6	7.3	5.3
32 Freedom III	5.4	6.0	4.9	4.9	5.8	2.3	6.3
33 Right	5.4	6.0	4.9	5.5	5.3	4.0	5.3
34 A12-34	5.4	5.8	5.1	5.0	5.7	7.3	6.0
35 GO-12R24-25	5.4	5.7	5.3	5.3	5.3	2.0	4.3
36 A12-30	5.4	5.8	5.3	5.0	5.5	5.0	6.0
37 Award	5.4	6.2	4.7	5.2	5.5	2.3	7.0
38 Midnight	5.4	6.1	4.7	5.0	5.7	2.3	5.3
39 A12-38	5.4	5.8	5.7	5.1	4.9	6.7	4.3
40 Nuglade	5.4	5.8	5.0	5.3	5.3	2.0	5.3
41 A12-4	5.3	5.5	6.0	5.2	4.7	6.3	5.3
42 A12-6	5.3	5.7	5.2	4.8	5.7	6.0	7.3
43 Kingfisher	5.3	5.1	4.9	5.3	6.1	6.0	7.3
44 A99-2758	5.3	6.4	5.1	5.0	4.9	4.3	1.3
45 Nu Destiny	5.3	5.8	4.5	5.2	5.8	2.0	6.3
46 PST-K11-122	5.3	5.7	5.1	4.9	5.6	5.0	1.7
47 Fullback	5.3	5.8	4.8	4.9	5.7	5.7	5.3
48 PST-K11-127G	5.3	5.7	5.3	4.9	5.2	3.7	4.0
49 Sudden Impact	5.3	5.7	4.9	4.8	5.7	2.3	6.0
50 Pick TD8	5.3	5.5	5.2	5.3	5.0	6.0	5.3

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----						Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	2016 Avg.		
51 PSG 2677	5.3	4.6	5.8	5.6	4.9	4.9	8.3	5.7
52 PST-K11-117G	5.2	5.6	4.9	5.2	5.3	5.3	5.3	3.7
53 A12-31	5.2	5.8	5.1	5.0	5.0	5.0	7.0	5.7
54 Liberator	5.2	5.9	4.7	4.9	5.4	5.4	2.0	5.3
55 PST-K9-88	5.2	5.7	5.1	5.0	5.1	5.1	7.3	3.3
56 Prosperity	5.2	4.6	5.1	4.9	6.3	6.3	4.7	7.7
57 A05-360	5.2	5.7	5.3	5.3	4.6	4.6	7.0	2.0
58 A12-11	5.2	5.5	4.9	5.2	5.2	5.2	3.3	5.0
59 PST-K9-90	5.2	4.5	5.1	5.3	5.9	5.9	4.0	6.7
60 Rush	5.2	5.6	4.7	4.7	5.9	5.9	3.0	6.0
61 A12-37	5.2	5.7	5.1	4.9	5.0	5.0	6.3	5.7
62 NuBlue Plus	5.2	5.7	4.5	4.9	5.7	5.7	1.3	5.3
63 Washington II	5.1	5.5	5.3	4.8	5.0	5.0	6.7	5.3
64 A05-312	5.1	5.3	5.2	4.8	5.2	5.2	5.0	4.0
65 Jack Rabbit	5.1	4.9	5.1	5.3	5.1	5.1	5.3	5.0
66 GO-12R8-12	5.1	4.8	5.2	5.4	5.1	5.1	4.3	4.0
67 A96-1338	5.1	5.4	5.1	4.9	5.1	5.1	5.7	5.7
68 PST-T10-18	5.1	5.8	5.1	4.7	4.8	4.8	5.3	4.7
69 Beyond	5.1	5.7	4.7	4.3	5.7	5.7	2.0	5.7
70 TD5-JP08	5.1	5.2	5.5	5.0	4.7	4.7	4.0	3.7
71 A09-231	5.1	5.1	5.0	5.1	5.1	5.1	6.3	4.0
72 CREST 5K-12	5.1	5.4	5.0	4.8	5.0	5.0	5.3	6.3
73 A12-49	5.1	6.0	5.1	4.7	4.5	4.5	1.0	4.7
74 Mercury	5.1	6.0	4.6	4.3	5.3	5.3	5.7	5.7
75 A12-3	5.1	5.0	5.2	5.0	5.0	5.0	6.0	6.7

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
76 PST-K11-126	5.1	5.6	5.9	5.2	3.5	4.3	4.7
77 Solar Eclipse	5.1	5.7	4.4	4.6	5.5	1.7	5.7
78 Mallard	5.0	5.6	4.5	4.9	5.1	5.7	7.3
79 Bolt	5.0	5.3	5.1	4.9	4.8	6.3	6.3
80 A12-7	5.0	5.3	4.8	5.4	4.5	4.3	5.0
81 A05-351	5.0	5.2	4.3	4.9	5.7	3.7	8.0
82 SR 2284	5.0	4.9	5.0	4.8	5.3	7.0	5.3
83 Shiraz	5.0	5.1	5.2	4.9	4.7	7.0	6.0
84 Nobel	5.0	5.3	4.3	4.7	5.6	4.0	6.7
85 Granite	5.0	5.3	4.5	4.4	5.7	1.7	6.0
86 3-11 KB	5.0	5.4	5.2	4.5	4.8	7.0	5.7
87 BlueNote	5.0	5.3	4.9	4.7	4.9	5.0	5.3
88 PST-T10-22-BS	5.0	4.9	5.1	5.3	4.6	5.7	5.0
89 Wildwood	5.0	5.1	4.5	5.3	4.9	4.3	6.0
90 A12-33	5.0	5.2	4.6	4.5	5.5	6.0	7.3
91 A04-1381	4.9	5.2	4.8	5.0	4.9	2.5	5.8
92 A99-2031	4.9	5.4	4.4	4.3	5.6	5.3	6.0
93 PST-K12-133G	4.9	4.9	5.3	5.1	4.4	2.3	3.7
94 Rugby II	4.9	5.5	4.8	4.4	5.0	3.3	4.3
95 Sonora	4.9	5.8	4.6	4.6	4.7	5.0	3.0
96 GS 3-09 KB	4.9	4.6	4.8	4.9	5.4	5.7	6.7
97 PST-K12-130	4.9	5.3	5.4	4.6	4.3	6.7	3.7
98 PST-K11-118	4.9	5.6	5.9	4.7	3.4	6.0	2.7
99 Arrowhead	4.9	4.9	4.8	5.0	5.0	3.7	5.3
100 A12-5	4.9	5.2	5.1	4.9	4.4	3.0	4.7

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
101 A05-940	4.9	5.0	5.0	5.0	4.5	5.7	4.3
102 STR 2553	4.9	5.0	4.4	4.6	5.5	6.7	6.3
103 A06-643	4.9	3.7	5.2	4.7	5.8	4.0	6.3
104 Everest	4.9	5.8	4.5	4.5	4.7	2.0	5.7
105 Krypton	4.9	5.4	5.1	4.6	4.3	3.7	4.3
106 A05-853	4.9	4.9	5.0	5.0	4.6	4.3	2.0
107 DDOKM	4.9	5.5	4.6	4.3	5.0	5.7	6.3
108 PST-K10-107	4.9	5.4	5.4	5.1	3.5	4.7	1.7
109 A12-9	4.8	4.4	5.2	4.8	5.0	5.0	4.0
110 2109 5K	4.8	5.3	4.4	5.1	4.5	4.7	6.3
111 A12-1	4.8	5.2	4.9	4.7	4.6	4.0	5.3
112 Jumpstart	4.8	4.5	4.8	5.5	4.6	6.0	5.0
113 KB 4-11	4.8	5.3	5.0	4.5	4.4	4.7	6.0
114 Ridgeline	4.8	4.9	4.4	4.6	5.4	3.0	5.7
115 PST-K11-125	4.8	5.1	4.9	4.8	4.5	4.7	6.0
116 A05TB-459*	4.8	5.3	4.5	5.0	4.5	5.0	3.7
117 A09-314-120T	4.8	4.8	4.5	4.5	5.4	5.3	6.3
118 AKB-1820	4.8	5.5	4.3	4.6	4.8	5.7	6.7
119 Aries	4.8	4.7	4.9	4.9	4.7	5.0	4.0
120 A98-1001	4.8	5.2	4.8	4.3	5.0	6.3	5.3
121 A07-783	4.8	5.3	4.6	4.8	4.6	1.7	5.3
122 Everglade	4.8	5.1	4.1	4.6	5.3	1.3	5.0
123 Cabernet	4.8	4.8	5.1	4.7	4.5	5.3	3.0
124 PST-K12-129	4.8	5.5	5.1	4.5	4.0	5.0	4.0
125 366JP08-2	4.8	4.7	5.0	4.8	4.5	6.0	4.7

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----						Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	2016 Avg.		
126 Babe	4.7	4.5	4.8	4.8	4.9	4.9	4.7	3.7
127 PST-K10-110	4.7	4.3	5.1	4.7	4.8	4.8	5.0	5.3
128 A12-10	4.7	5.1	4.5	4.8	4.6	4.6	4.0	3.0
129 PST-T10-27	4.7	5.0	4.5	4.4	5.0	5.0	4.7	5.0
130 ORF 10K	4.7	4.6	4.5	4.5	5.3	4.7	5.0	4.5
131 A12-8	4.7	4.9	4.6	4.6	4.6	4.9	2.0	5.7
132 Unigue II	4.7	4.5	5.1	4.5	4.8	4.8	7.3	5.7
133 RAD-926	4.7	4.8	5.1	5.0	3.9	3.9	3.7	3.7
134 A11-341	4.7	4.1	4.9	5.0	4.9	4.9	6.0	5.3
135 A05-316	4.7	4.5	4.6	4.7	5.1	5.1	5.0	3.3
136 RAD-1776	4.7	5.2	5.0	4.6	4.6	4.1	5.7	1.0
137 A11-344	4.7	4.1	4.7	5.0	5.1	5.1	6.3	4.7
138 DKH-KB	4.7	5.3	4.6	4.3	4.5	4.5	6.0	5.0
139 4-Season	4.7	5.1	5.3	4.6	3.8	3.8	4.3	4.0
140 Bewitched	4.7	4.9	4.4	4.3	5.1	5.1	2.7	5.0
141 PST-K11-120GR	4.7	4.3	5.2	4.4	4.9	4.9	4.7	4.7
142 7115P08-7	4.7	4.4	4.6	4.7	5.0	5.0	7.7	6.3
143 A05-930	4.7	5.1	4.5	4.7	4.3	4.3	4.7	2.3
144 PST-K12-132	4.7	4.9	5.6	4.7	3.4	3.4	5.3	1.0
145 A06-671	4.6	4.5	4.5	4.6	4.9	4.9	5.0	4.7
146 P-105	4.6	5.0	4.6	4.3	4.8	4.8	5.3	5.7
147 Armada	4.6	5.5	4.8	4.0	4.2	4.2	7.0	4.3
148 AKB-1812	4.6	5.1	4.3	4.4	4.7	4.7	5.3	6.3
149 Lunar	4.6	4.9	4.6	4.4	4.5	4.5	4.7	2.7
150 A05-303	4.6	4.7	4.8	4.2	4.6	4.6	4.7	4.7

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
151 PST-K11-124	4.6	4.4	4.5	4.7	4.7	5.0	4.3
152 Crest 5X-11	4.6	5.1	4.8	4.5	3.9	5.3	4.3
153 A05-306	4.6	4.9	4.8	4.4	4.3	5.0	4.0
154 H01-938	4.6	4.8	4.8	4.2	4.5	4.3	3.0
155 A12-28	4.6	4.8	4.7	4.3	4.3	3.0	4.0
156 Bandera	4.6	4.8	4.7	4.4	4.3	3.3	4.7
157 RAD-861	4.5	5.2	4.7	4.3	3.9	4.0	4.0
158 SR 2109	4.5	4.7	4.2	5.0	4.2	5.0	6.3
159 Volt	4.5	4.6	4.7	4.4	4.4	6.3	3.7
160 A09-353	4.5	5.1	4.2	4.1	4.7	5.7	6.0
161 A12-29	4.5	5.3	4.2	4.1	4.5	4.7	6.3
162 A12-2	4.5	4.7	4.6	4.3	4.3	5.3	4.3
163 Ginney II	4.5	5.2	4.3	3.9	4.5	3.0	5.0
164 Fahrenheit 90*	4.5	5.0	4.5	4.4	4.1	4.7	5.0
165 PST-K12-134G	4.5	4.4	4.3	4.6	4.6	5.0	4.0
166 Wildhorse	4.5	4.4	4.7	4.4	4.4	5.7	4.0
167 KB 2-11	4.4	4.2	4.7	4.4	4.5	5.3	4.7
168 ARC	4.4	4.6	4.6	4.3	4.2	4.7	4.0
169 RAD-1216	4.4	4.7	4.3	4.2	4.5	5.7	4.3
170 Ulysses	4.4	4.2	4.8	4.3	4.4	5.3	4.0
171 Baron	4.4	4.9	4.8	4.2	3.7	4.3	3.7
172 PST-K9-101	4.4	4.9	4.2	4.5	3.9	4.7	5.0
173 PST-K109S	4.4	3.8	4.3	4.7	4.8	2.3	5.3
174 A04-1271	4.4	4.4	4.4	4.3	4.5	5.0	3.3
175 Champagne	4.4	4.3	4.5	4.4	4.3	5.0	4.0

(Continued)



Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----						Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	2016 Avg.		
176 Milagro	4.4	4.4	4.2	4.7	4.1	4.1	6.0	4.0
177 A11-349	4.4	3.4	4.7	4.4	4.9	4.9	5.3	4.0
178 A11-348	4.4	4.4	4.4	4.2	4.5	4.5	5.3	4.7
179 A08-2	4.3	5.2	4.3	3.5	4.3	4.3	6.3	5.7
180 PST-K12-131	4.3	4.6	4.3	4.4	4.0	4.0	7.3	4.3
181 America	4.3	4.6	4.1	4.2	4.4	4.4	5.7	4.3
182 SPF 30	4.3	4.7	4.3	4.4	3.7	3.7	5.3	3.3
183 Crest	4.3	4.7	4.5	3.9	4.0	4.0	5.0	4.7
184 Gaelic	4.3	4.3	4.6	4.1	4.0	4.0	4.0	3.3
185 A05-999	4.3	4.4	4.4	4.2	4.1	4.1	3.0	4.0
186 PST-K11-128	4.2	4.5	5.0	3.9	3.5	3.5	5.3	4.7
187 A07-377	4.2	4.7	4.3	4.3	3.6	3.6	3.3	4.0
188 PST-T10-28NO	4.2	4.8	4.7	4.0	3.3	3.3	6.3	2.0
189 A08-377	4.2	4.5	3.9	4.0	4.5	4.5	4.7	5.3
190 A05-342	4.2	5.1	3.9	3.7	4.2	4.2	6.0	3.7
191 Spitfire*	4.2	4.1	4.4	4.2	4.2	4.2	4.7	4.0
192 PST-K8-60	4.2	4.6	4.1	3.9	4.2	4.2	5.7	1.7
193 SPTR 2959	4.2	4.2	4.2	3.9	4.4	4.4	3.7	4.0
194 A09-353	4.2	4.5	3.7	3.8	4.8	4.8	6.0	5.0
195 PST-K9-99FR	4.2	4.6	3.8	3.6	4.7	4.7	6.0	5.3
196 Shannon	4.1	4.3	4.4	4.0	3.9	3.9	4.7	3.0
197 PST-K8-76NO	4.1	4.2	3.9	4.3	4.1	4.1	3.3	5.0
198 PST-K9-97	4.1	3.9	4.2	4.1	4.3	4.3	5.0	5.0
199 A09-258	4.1	4.4	3.9	3.5	4.4	4.4	6.0	1.0
200 A04-1260	4.1	4.1	4.0	3.9	4.2	4.2	3.0	2.3

(Continued)

Table 2. Kentucky bluegrass turf trial, 2012 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 10 March 2016	Leaf Spot <sup>3</sup> 11 May 2016
	2013-2016 Avg.	2013 Avg.	2014 Avg.	2015 Avg.	2016 Avg.		
201 2-09 KB	4.0	3.7	4.3	4.1	4.1	5.3	5.0
202 A12-26	4.0	4.3	4.0	3.6	4.2	5.0	3.7
203 Touchdown	4.0	3.9	4.2	4.0	4.0	5.7	3.7
204 Zinfandel	4.0	4.2	4.3	3.6	3.9	6.0	3.7
205 Blue Ghost	3.9	3.4	3.4	4.3	4.6	6.3	4.3
206 Guinness	3.9	4.1	4.1	3.8	3.7	5.0	4.0
207 PST-T12-30	3.9	4.4	4.2	3.8	3.2	8.3	1.3
208 Bordeaux	3.8	4.1	3.8	3.5	3.9	6.3	6.0
209 Cadet	3.8	3.6	3.5	3.9	4.0	4.3	4.0
210 RAD-1733	3.7	4.4	3.5	3.6	3.3	4.7	1.0
211 Action	3.3	3.6	3.1	3.4	3.0	5.0	4.0
212 GO-12R5-7	3.1	2.3	2.9	3.4	3.6	4.3	3.7
213 Camas	2.6	3.0	3.0	2.3	2.1	9.0	1.7
214 RAD-860	2.3	1.1	1.6	2.9	3.8	5.3	3.0
215 RAD-1214	1.9	1.1	1.3	2.1	3.1	4.7	3.7
LSD at 5% =	0.5	0.7	0.8	0.7	0.8	1.7	1.5

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

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

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

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background

Table 3. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2013 at Adelphia, NJ.

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
1 KB11-6	6.0	6.6	6.2	5.3	7.0
2 Greenstar	5.9	6.8	5.8	4.7	6.0
3 A04-49	5.9	6.1	6.0	5.7	6.0
4 Pick 033	5.8	6.3	5.6	5.4	7.0
5 103-585	5.7	6.8	5.9	4.3	5.3
6 Prosperity	5.7	6.8	5.4	4.8	4.7
7 Martha	5.7	6.5	5.4	5.1	5.0
8 A04-67	5.7	5.9	5.9	5.1	7.0
9 PST-K11-118	5.6	5.7	5.8	5.4	5.3
10 SRX 466	5.6	6.1	5.6	5.2	6.3
11 Right	5.6	5.8	5.7	5.2	5.0
12 Madison	5.6	5.9	5.4	5.4	4.7
13 Arrowhead	5.6	5.7	5.8	5.2	4.3
14 KB11-28	5.6	6.4	5.1	5.2	4.7
15 PST-K11-123	5.5	5.3	6.3	5.1	4.7
16 Bluenote	5.5	5.4	5.3	5.9	5.3
17 Diva	5.5	6.2	5.2	5.2	6.0
18 PST-T13-33	5.5	5.9	5.1	5.6	4.3
19 A07-782	5.5	5.7	5.4	5.3	3.3
20 A05-361	5.4	6.2	5.4	4.7	5.7
21 A12-38	5.4	5.9	5.3	5.1	4.3
22 Endurance	5.4	5.6	5.1	5.5	4.7
23 A06-8	5.4	6.0	5.3	5.0	5.3
24 SRX 5321	5.4	6.1	5.3	4.8	5.3
25 Oasis	5.4	5.2	5.2	5.8	5.3
26 Impact	5.4	6.4	4.8	4.9	3.0
27 Hampton	5.4	5.8	5.1	5.2	6.3
28 A04-46	5.4	5.7	5.0	5.3	5.0
29 A07-783	5.4	6.0	5.1	4.9	3.3
30 PST-K12-130	5.3	5.8	5.3	4.9	6.3
31 Mystere	5.3	5.8	4.7	5.5	4.7
32 Bewitched	5.3	6.2	4.8	5.2	4.0
33 Award	5.3	6.1	4.8	5.1	2.3
34 TD-2-JP08	5.3	5.7	5.6	4.7	4.7
35 A13-12	5.3	5.5	5.2	5.2	6.0

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
36 Gladstone	5.3	6.3	5.2	4.4	5.7
37 GO-2628KBG	5.3	5.7	5.7	4.6	4.0
38 SRX 4338	5.3	6.4	4.8	4.7	4.3
39 TD7-08	5.3	5.7	5.4	4.8	5.0
40 PST-K13-138	5.3	5.7	5.6	4.6	4.3
41 Fullback	5.3	5.4	4.9	5.6	5.3
42 A98-1001	5.3	5.9	4.5	5.5	4.3
43 A00-1400	5.3	6.2	5.0	4.5	3.3
44 A09-231	5.3	5.6	5.3	4.9	6.3
45 RAD-1371	5.3	5.4	5.1	5.3	4.3
46 Pivot	5.2	5.2	5.8	4.8	4.7
47 Blue Devil	5.2	6.7	4.8	4.2	2.3
48 PST-K13-137	5.2	5.1	5.2	5.5	5.0
49 KB11-30	5.2	5.6	4.8	5.3	4.0
50 A12-33	5.2	5.6	4.6	5.5	4.3
51 Quantum Leap	5.2	6.2	4.8	4.6	3.7
52 A11-52	5.2	5.9	4.9	4.9	3.7
53 A05-321	5.2	5.6	5.0	5.0	4.7
54 Jack Rabbit	5.2	5.8	5.7	4.1	5.3
55 Sonora	5.2	4.9	5.0	5.6	4.0
56 Shiraz	5.2	5.6	4.9	5.0	5.3
57 Crest 5K-12	5.2	5.3	5.4	4.8	5.3
58 SRX 2758	5.2	5.6	5.6	4.2	4.3
59 Malbec	5.2	5.2	5.6	4.6	7.0
60 A12-30	5.2	6.0	5.1	4.4	4.0
61 Babe	5.2	5.3	5.2	5.0	6.0
62 GO-22B23KBG	5.2	4.9	5.4	5.2	3.7
63 KB11-32	5.2	5.8	4.7	5.0	2.7
64 A07-1230	5.1	5.9	5.2	4.4	5.0
65 A05TB-258*	5.1	5.3	5.2	4.9	4.3
66 PST-T12-31	5.1	5.5	5.3	4.6	4.7
67 Lunar	5.1	5.9	4.6	4.8	5.0
68 RAD-848	5.1	5.7	4.5	5.1	4.7
69 Bedazzled	5.1	5.5	4.9	4.9	5.3
70 366-6-JP08	5.1	5.7	5.1	4.5	5.7

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
71 A13-304	5.1	5.3	5.2	4.8	5.7
72 A13-10	5.1	5.3	4.9	5.1	4.7
73 Pick 4340	5.1	5.4	4.9	4.8	4.3
74 A06-33	5.1	5.4	5.1	4.8	5.7
75 A04-383	5.1	5.5	5.0	4.7	4.7
76 A06-2	5.1	5.2	5.0	5.0	4.3
77 Bolt	5.1	5.6	5.5	4.1	4.7
78 A12-37	5.1	5.6	5.0	4.7	4.3
79 A13-13	5.1	5.7	4.5	5.0	5.7
80 A13-17	5.1	5.2	5.1	4.8	6.0
81 A13-22	5.1	4.9	5.3	5.0	4.7
82 PST-T10-22-BS	5.1	5.4	5.5	4.3	5.7
83 PST-K13-139	5.0	5.6	5.1	4.4	5.0
84 PST-T13-32	5.0	4.9	5.3	4.9	3.7
85 4 Season	5.0	5.5	5.1	4.5	3.0
86 Midnight	5.0	5.9	4.7	4.5	2.0
87 Bluechip Plus	5.0	5.9	4.6	4.6	2.7
88 Crest 5K10	5.0	5.4	5.1	4.6	5.7
89 TD5JP08	5.0	5.5	5.3	4.3	4.3
90 PST-T11-29G	5.0	5.1	5.2	4.8	4.7
91 A99-3122	5.0	5.3	4.8	5.0	5.3
92 A13-9	5.0	4.9	5.4	4.8	5.0
93 Blue Coat	5.0	4.9	5.0	5.1	5.3
94 A11-28	5.0	5.2	5.1	4.7	5.0
95 KB11-31	5.0	6.1	4.1	4.8	3.7
96 A10-241	5.0	5.7	4.7	4.6	4.3
97 A07-1248	5.0	5.8	4.6	4.6	3.7
98 A12-28	5.0	5.2	5.3	4.4	5.0
99 PST-K13-141	5.0	5.8	5.0	4.2	4.7
100 Everest	5.0	6.1	4.7	4.1	2.7
101 Gaelic	5.0	5.3	4.6	5.0	5.7
102 NuGlade	5.0	6.1	4.2	4.5	3.0
103 Ginney II	5.0	5.4	4.7	4.8	3.3
104 Nublu Plus	4.9	5.5	4.6	4.8	3.7
105 Champagne	4.9	5.2	5.0	4.9	5.7

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
106 A04-38	4.9	5.2	4.8	4.8	5.0
107 PST-K13-136	4.9	5.4	5.1	4.2	3.3
108 Blueberry	4.9	4.7	5.5	4.5	4.7
109 Rugby II	4.9	5.6	4.7	4.5	2.3
110 A06-08	4.9	5.5	4.8	4.4	5.0
111 A06-1053	4.9	6.1	4.5	4.1	3.0
112 A12-7	4.9	5.3	5.1	4.3	4.3
113 Moonshadow	4.9	5.2	4.8	4.7	3.7
114 PST-K10-107	4.9	5.6	5.0	4.0	5.3
115 PST-K9-88	4.9	4.9	5.1	4.7	6.0
116 Moonlight SLT	4.9	5.5	5.0	4.2	4.3
117 A99-320	4.9	5.1	4.9	4.6	7.3
118 A07-21	4.9	5.6	5.1	4.0	6.0
119 Everglade	4.9	5.5	4.5	4.6	2.7
120 J-1136	4.9	5.4	4.8	4.4	2.3
121 Midnight II	4.9	5.6	4.6	4.4	2.7
122 Avalanche	4.9	5.8	4.9	3.9	5.7
123 NuDestiny	4.9	5.9	4.5	4.2	3.7
124 Arc	4.9	4.9	4.9	4.9	4.7
125 A13-21	4.9	5.1	4.9	4.6	4.3
126 Apollo	4.9	5.6	4.5	4.5	4.3
127 PST-K10-110	4.8	5.1	5.0	4.4	5.3
128 PST-T10-17	4.8	5.4	4.9	4.2	4.0
129 SR 2284	4.8	4.9	4.9	4.8	5.0
130 A10-247	4.8	5.2	4.9	4.4	6.3
131 A13-4	4.8	5.3	4.3	4.9	4.3
132 Jump Start	4.8	5.0	5.3	4.2	5.7
133 Liberator	4.8	5.8	4.6	4.1	2.7
134 Legend	4.8	4.9	4.3	5.2	4.7
135 Merlot	4.8	5.3	4.6	4.6	5.0
136 A07-385	4.8	5.0	5.6	4.4	4.0
137 PST-K11-125	4.8	5.9	5.2	3.4	4.0
138 A12-3	4.8	4.8	5.1	4.5	5.0
139 A12-1	4.8	4.8	5.1	4.6	5.0
140 A06-11	4.8	5.4	4.6	4.5	5.3

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
141 GO-2425KBG	4.8	5.1	4.7	4.7	3.7
142 A12-26	4.8	4.8	4.7	4.9	5.3
143 A13-15	4.8	5.1	4.5	4.8	5.3
144 A05-342	4.8	5.3	4.4	4.7	4.7
145 Juliet	4.8	5.3	5.0	4.0	5.3
146 KB11-24	4.8	5.3	4.4	4.6	5.0
147 A13-3	4.8	5.2	4.9	4.3	4.3
148 PST-K12-132	4.8	4.7	5.4	4.2	5.0
149 A13-11	4.8	5.3	4.4	4.6	4.7
150 PST-K13-142	4.8	5.1	4.8	4.4	3.0
151 RAD-KCC4L	4.8	4.8	4.9	4.7	4.3
152 Washington II	4.8	5.1	5.1	4.1	4.0
153 Touche	4.8	5.6	5.0	3.7	5.3
154 Desert Moon	4.7	5.2	4.6	4.4	3.7
155 Rubicon	4.7	5.2	5.4	3.6	6.0
156 Touchdown	4.7	4.4	5.5	4.3	5.3
157 A00-4199	4.7	5.6	4.7	3.9	3.3
158 A09-305	4.7	5.8	4.9	3.5	4.7
159 DDOKM	4.7	5.3	4.4	4.5	5.0
160 A01-1789	4.7	5.3	4.6	4.3	4.3
161 A04-14	4.7	5.2	4.9	4.0	8.7
162 A07-393	4.7	5.5	4.6	4.1	4.3
163 Wildhorse	4.7	4.8	4.8	4.5	5.7
164 Volt	4.7	4.6	4.6	4.9	5.7
165 A04-1260	4.7	4.6	4.9	4.7	5.3
166 A04-13	4.7	4.6	5.1	4.5	5.3
167 PST-K9-97	4.7	4.8	5.0	4.4	5.0
168 PST-T10-18	4.7	5.1	4.9	4.1	4.3
169 Dauntless	4.7	4.7	4.9	4.5	5.3
170 A13-1	4.7	4.9	4.5	4.7	4.7
171 A13-5	4.7	5.4	4.5	4.6	4.7
172 Milagro	4.7	4.8	4.7	4.6	5.0
173 KB11-18	4.7	5.1	4.1	4.9	5.3
174 PST-K13-143	4.7	4.5	5.0	4.6	4.3
175 Midnight Star	4.7	4.9	5.0	4.2	5.7

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
176 H99-163	4.7	5.1	4.6	4.3	5.0
177 12-0038	4.7	4.0	5.1	4.9	5.3
178 A11-30	4.7	4.9	4.6	4.5	3.0
179 A13-16	4.7	4.7	4.4	4.9	4.7
180 RAD-1377	4.7	5.0	4.7	4.2	5.0
181 Aries	4.7	4.8	4.8	4.4	6.0
182 A06-40	4.7	5.3	4.7	4.0	4.0
183 A07-1247	4.7	5.4	4.5	4.1	4.7
184 RAD-2154	4.6	5.8	4.7	3.5	4.0
185 Bonaire	4.6	4.7	4.8	4.4	5.7
186 A13-2	4.6	4.8	4.3	4.8	3.3
187 Shannon	4.6	4.8	4.9	4.2	4.7
188 SPF 30	4.6	5.5	4.4	3.9	4.3
189 GO-812KBG	4.6	3.8	5.1	5.0	5.0
190 A12-8	4.6	5.0	4.7	4.2	3.7
191 P-105	4.6	5.0	4.8	4.1	4.3
192 Bandera*	4.6	5.1	4.5	4.2	3.3
193 A13-19	4.6	5.1	4.5	4.2	4.3
194 Brooklawn	4.6	4.7	4.5	4.7	5.0
195 A08-2	4.6	4.8	4.3	4.7	5.7
196 A13-20	4.6	5.5	4.4	3.9	4.7
197 3925	4.6	4.7	4.3	4.7	5.0
198 Argos	4.6	4.9	4.5	4.4	5.0
199 KB11-45	4.6	4.9	4.3	4.5	5.0
200 PST-K11-124	4.6	4.8	4.3	4.6	4.7
201 PST-K12-133G	4.6	5.4	4.7	3.5	3.3
202 PST-K13-135	4.5	4.9	4.4	4.4	4.7
203 Corsair	4.5	4.6	5.1	3.9	5.3
204 Black Jack	4.5	4.8	4.4	4.4	6.7
205 KB11-4	4.5	6.0	4.2	3.5	4.0
206 PICK MP07	4.5	5.0	4.8	3.8	5.3
207 A13-14	4.5	4.7	4.4	4.4	4.3
208 Blue Sapphire	4.5	5.1	4.6	3.8	4.0
209 A12-29	4.5	5.3	4.0	4.2	4.7
210 A04-1381	4.5	5.0	4.4	4.1	2.7

(Continued)



Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
211 A05TB-275*	4.5	3.9	4.9	4.7	5.0
212 PST-K12-134G	4.5	4.6	4.6	4.3	5.0
213 KB11-22	4.5	4.8	4.8	3.9	5.0
214 Pick TD8	4.5	4.4	4.5	4.6	4.7
215 RAD-1409	4.5	5.4	4.6	3.4	4.0
216 Rubix	4.5	4.8	5.2	3.5	6.0
217 Mercury	4.5	4.5	4.6	4.4	4.3
218 A12-31	4.5	4.8	4.7	4.0	6.0
219 KB11-46	4.5	4.9	4.1	4.5	5.0
220 RAD-1427	4.5	5.0	4.2	4.2	4.0
221 A06-3	4.5	4.4	4.3	4.6	5.0
222 A09-258	4.5	5.4	4.5	3.5	5.7
223 A05-1405	4.5	5.0	4.9	3.5	4.3
224 A13-8	4.5	5.0	4.1	4.3	5.3
225 RAD-1404	4.5	4.9	4.8	3.7	4.3
226 Avaitor	4.5	5.3	4.3	3.8	5.7
227 A05-316	4.5	4.7	4.5	4.1	4.3
228 A12-34	4.5	4.4	4.6	4.4	4.7
229 KB11-17	4.4	5.1	3.7	4.6	5.3
230 STR 2553	4.4	5.0	4.1	4.2	4.3
231 A13-18	4.4	4.7	4.4	4.2	5.0
232 11-526	4.4	4.9	4.7	3.6	4.0
233 RAD-507	4.4	5.2	4.0	4.0	5.7
234 A10-238	4.4	4.9	4.2	4.1	5.0
235 Guinness	4.4	4.4	4.8	4.0	4.7
236 PSG A12-2	4.3	4.6	4.2	4.2	6.0
237 GS 3-09	4.3	4.3	4.7	4.0	4.3
238 A05-347	4.3	5.0	3.8	4.2	4.0
239 RAD-1405	4.3	4.6	4.5	3.8	4.0
240 SR 2100	4.3	4.4	4.9	3.6	3.7
241 A06-632	4.3	5.3	4.0	3.5	4.7
242 Spitfire*	4.3	4.7	4.4	3.7	5.3
243 PST-K13-140	4.2	3.6	5.1	4.0	5.3
244 PST-K8-76NO	4.2	4.4	4.6	3.7	2.7
245 A10-873	4.2	4.0	4.6	4.1	3.7

(Continued)

Table 3. Kentucky bluegrass turf trial, 2013 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----				Spring Green-up <sup>2</sup> 28 March 2016
	2014-2016 Avg.	2014 Avg.	2015 Avg.	2016 Avg.	
246 11-559	4.2	3.9	4.5	4.6	5.0
247 RAD-1776	4.2	4.1	4.3	4.2	4.3
248 KB11-36	4.2	3.9	4.3	4.3	4.3
249 Armanda	4.2	3.7	4.3	4.4	4.7
250 A05-351	4.1	5.0	3.9	3.6	3.0
251 PST-T13-34	4.1	4.1	4.1	4.1	3.7
252 KB11-47	4.1	4.2	4.9	3.4	4.3
253 Bluestar	4.1	4.5	4.1	3.7	5.3
254 Fielder	4.1	3.9	4.2	4.2	4.0
255 11-511	4.1	4.8	4.0	3.4	5.3
256 A05-344	4.1	4.2	3.9	4.1	5.3
257 America	4.1	4.0	3.8	4.4	4.0
258 KB11-10	4.1	4.7	4.2	3.3	5.7
259 Blue Ghost	4.0	3.7	4.5	3.9	6.0
260 Waterworks	4.0	4.2	3.8	4.1	5.0
261 Noble	4.0	4.0	4.1	3.9	4.3
262 PST-K7-29	4.0	5.1	3.5	3.4	3.0
263 PST-K8-60	4.0	4.1	3.9	4.0	4.3
264 A09-353	4.0	5.1	3.5	3.3	3.3
265 11-695	4.0	3.6	4.7	3.6	5.0
266 4-11KB	4.0	4.5	3.9	3.5	4.7
267 Crest	4.0	4.5	4.0	3.4	4.3
268 PST-101-362	3.9	4.3	4.0	3.5	4.0
269 11-520	3.9	5.2	3.6	2.9	4.0
270 PST-PP-48431-10	3.9	4.5	3.7	3.5	4.3
271 11-592	3.9	3.7	4.8	3.2	5.3
272 11-672	3.9	4.0	3.7	3.9	4.7
273 11-583	3.6	3.9	3.2	3.6	5.3
274 Artesia	3.2	2.4	3.4	3.7	6.0
275 GO-5675KBG	3.1	1.2	3.9	4.2	4.0
LSD at 5% =	0.6	0.9	0.8	0.9	1.3

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

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

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background

Table 4. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2014 at Adelphia, NJ.

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
1 A11-26	6.1	6.1	6.1	4.5	4.0	4.5	9.0		
2 A07-782	6.1	5.8	6.4	5.0	8.5	7.5	8.5		
3 A11-49	6.1	5.9	6.3	6.0	5.0	5.5	9.0		
4 Blue Note	6.0	5.7	6.4	6.0	5.5	6.0	9.0		
5 Prosperity	5.9	6.0	5.8	4.0	6.0	5.0	6.0		
6 A14-5	5.9	5.8	6.0	8.0	4.0	4.0	9.0		
7 A14-15	5.8	5.7	6.0	6.0	4.5	5.5	9.0		
8 Shiraz	5.8	5.9	5.7	7.0	5.0	3.5	9.0		
9 PST-K13-137	5.8	5.0	6.6	6.0	6.5	5.5	9.0		
10 A10-249	5.7	5.5	6.0	6.5	5.0	4.5	9.0		
11 A14-2	5.7	5.8	5.6	6.0	5.0	6.0	9.0		
12 PST-T14-38	5.7	5.4	6.0	5.0	6.5	6.5	8.0		
13 Arrowhead	5.7	5.2	6.1	3.5	5.0	4.0	7.0		
14 PST-T14-35	5.6	5.7	5.6	5.0	6.0	6.5	9.0		
15 A11-53	5.6	5.6	5.7	5.5	5.5	5.5	9.0		
16 Blue Devil	5.6	5.4	5.9	4.5	5.5	4.5	9.0		
17 NuDestiny	5.6	5.6	5.6	3.5	5.5	4.0	8.0		
18 A12-7	5.6	5.3	5.9	5.0	5.5	5.0	9.0		
19 NAI 13-14	5.6	5.5	5.7	3.5	4.0	4.0	8.0		
20 NAI 13-132	5.5	5.4	5.6	3.0	5.5	6.0	9.0		
21 A04TB-258*	5.5	4.9	6.1	6.0	5.5	5.0	9.0		
22 Everglade	5.5	5.3	5.7	4.0	6.0	5.0	9.0		
23 Hampton	5.5	5.4	5.6	7.0	5.5	6.5	8.5		
24 A14-26	5.5	5.4	5.5	4.0	6.0	4.5	9.0		
25 PST-K13-138	5.5	5.8	5.2	4.5	4.0	3.5	4.5		

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016	
	2014-2016 Avg.	2015 Avg.					2016 Avg.
26 PST-T10-17	5.5	5.4	5.5	4.0	5.0	3.5	6.5
27 A14-22	5.5	5.5	5.5	7.5	4.5	3.0	5.5
28 PST-T10-18	5.4	5.2	5.7	7.5	7.0	6.0	9.0
29 A11-25	5.4	5.3	5.6	5.5	8.5	5.0	9.0
30 A14-3	5.4	5.5	5.4	7.0	4.5	4.5	9.0
31 NuBlue Plus	5.4	5.5	5.4	4.5	4.5	4.0	9.0
32 NAI 13-9	5.4	5.5	5.4	2.5	4.0	3.5	7.5
33 A11-41	5.4	5.0	5.8	7.0	6.5	7.5	9.0
34 A07-1230	5.4	5.3	5.5	4.5	5.5	5.5	9.0
35 A14-14	5.4	5.3	5.5	6.0	5.0	5.0	9.0
36 A04TB-212*	5.4	5.4	5.4	6.5	5.5	4.5	7.5
37 Aries	5.4	5.3	5.5	7.0	5.5	4.5	8.0
38 Everest	5.4	5.8	5.0	5.5	5.0	4.0	9.0
39 Bluechip Plus	5.4	5.9	4.9	4.0	5.5	3.5	9.0
40 A07-1233	5.4	5.1	5.7	5.5	5.5	6.5	9.0
41 A10-244	5.4	5.2	5.6	7.5	4.5	6.0	8.5
42 A14-9	5.4	4.9	5.8	6.0	4.0	4.0	9.0
43 P-105	5.4	5.5	5.2	6.0	4.0	4.0	9.0
44 A04-68	5.3	5.4	5.3	7.5	6.0	6.0	6.5
45 A14-4	5.3	4.7	6.0	7.0	4.5	5.5	9.0
46 A14-31	5.3	5.2	5.4	6.0	4.0	5.0	9.0
47 Midnight II	5.3	5.5	5.1	3.0	4.0	4.0	8.5
48 NuGlade	5.3	5.5	5.1	3.0	4.5	3.5	7.5
49 Bluecoat	5.3	5.3	5.3	5.5	7.0	3.5	9.0
50 A14-218	5.3	5.1	5.5	7.0	4.5	3.5	9.0

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
51 Midnight	5.3	5.3	5.3		3.5	4.5	4.5	9.0	
52 A06-8	5.3	4.8	5.8		6.5	4.5	4.5	9.0	
53 A14-11	5.3	5.0	5.6		5.0	4.0	4.0	8.5	
54 Mallard	5.3	5.2	5.4		5.0	3.5	3.5	9.0	
55 Liberator	5.3	5.4	5.1		2.5	4.5	3.5	9.0	
56 A12-57	5.2	5.4	5.1		6.5	6.0	4.5	6.0	
57 Rugby	5.2	5.2	5.3		3.5	4.5	4.5	8.5	
58 Sudden Impact	5.2	5.4	5.1		3.5	4.5	3.5	9.0	
59 NAI 13-133	5.2	5.1	5.4		3.5	5.0	3.5	8.5	
60 Jumpstart	5.2	4.8	5.7		7.0	7.5	6.0	8.5	
61 PST-K10-110	5.2	5.0	5.4		4.5	5.5	5.0	6.5	
62 Diva	5.2	4.9	5.6		5.5	5.0	4.5	8.5	
63 A98-3366	5.2	5.4	5.0		6.5	4.5	3.5	7.0	
64 Impact	5.2	5.3	5.1		4.5	4.5	3.0	8.5	
65 GO-14-KBG2628	5.2	5.1	5.4		5.5	4.5	3.0	7.0	
66 PST-T11-29G	5.2	5.9	4.6		5.5	4.0	3.0	3.5	
67 4-Season	5.2	4.7	5.7		5.0	5.5	5.5	9.0	
68 A12-28	5.2	5.0	5.4		5.5	5.5	4.5	8.5	
69 Avalanche	5.2	4.6	5.7		7.5	6.5	5.0	9.0	
70 Rubix	5.2	4.9	5.5		5.5	5.0	4.5	8.0	
71 PST-K11-125	5.2	5.8	4.5		5.0	3.5	1.5	4.5	
72 Jack Rabbit	5.1	5.0	5.3		6.5	6.0	5.0	8.5	
73 A10-832	5.1	4.8	5.5		5.5	5.0	5.0	9.0	
74 A14-12	5.1	4.8	5.5		6.0	4.0	3.5	9.0	
75 A14-10	5.1	5.3	5.0		7.0	5.0	6.0	9.0	

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
76 A14-18	5.1	4.7	5.6	7.0	4.0	5.5	9.0		
77 A98-874	5.1	5.2	5.1	7.5	6.0	5.5	9.0		
78 A11-42	5.1	4.8	5.4	6.0	5.0	5.0	7.0		
79 Award	5.1	4.7	5.5	4.0	5.0	5.0	9.0		
80 Alexa II	5.1	5.1	5.1	4.5	5.0	5.0	9.0		
81 A06-1053	5.1	5.2	5.0	3.0	4.0	4.5	9.0		
82 GO-14-KBG2425	5.1	4.8	5.4	5.5	4.5	4.5	9.0		
83 A13-5	5.1	5.0	5.2	6.5	3.0	3.5	9.0		
84 Ginney II	5.1	5.0	5.2	3.0	5.5	4.0	8.5		
85 A14-217	5.1	5.0	5.1	7.0	4.0	3.0	9.0		
86 A13-18	5.0	5.0	5.0	7.0	4.5	4.0	6.0		
87 PST-T14-36	5.0	5.0	5.0	6.0	5.5	5.0	6.5		
88 PST-K11-122	5.0	5.0	5.0	6.0	4.5	4.0	6.5		
89 A09-231	4.9	4.5	5.4	6.0	5.0	5.5	9.0		
90 A14-13	4.9	4.9	5.0	5.0	4.0	3.5	8.5		
91 A10-280	4.9	4.8	5.1	7.0	3.5	3.5	9.0		
92 GO-14-KBG22823	4.9	4.4	5.5	5.0	3.5	3.5	8.5		
93 PST-K14-148	4.9	4.8	5.1	5.5	5.5	3.0	7.5		
94 A12-3	4.9	5.0	4.9	7.5	4.0	2.5	9.0		
95 PST-K14-155	4.9	4.6	5.2	4.0	3.5	4.5	8.5		
96 A12-8	4.9	4.6	5.2	5.0	5.0	4.5	9.0		
97 GO-14-KBG812	4.9	4.5	5.4	6.5	5.0	3.5	8.0		
98 PST-K13-143	4.9	4.6	5.3	6.0	4.0	3.5	4.5		
99 PST-K13-141	4.9	5.2	4.6	7.5	5.0	5.0	8.5		
100 A06-33	4.9	4.7	5.1	7.0	3.5	4.0	9.0		

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
101 Babe	4.9	4.6	5.2	6.5	4.5	4.0	7.5		
102 A05TB-459	4.9	4.5	5.3	7.0	5.5	5.0	9.0		
103 PST-K14-151	4.9	4.6	5.2	4.0	4.5	4.0	8.5		
104 Fahrenheit 90*	4.9	5.0	4.7	5.0	4.0	3.5	6.5		
105 Arc	4.9	4.5	5.2	5.5	4.0	3.5	9.0		
106 Ridgeline	4.9	4.7	5.1	5.0	3.5	3.0	8.5		
107 PST-K13-140	4.9	4.7	5.1	7.0	3.5	3.0	8.5		
108 Right	4.9	5.3	4.5	6.5	4.5	3.0	8.0		
109 A10-238	4.8	4.5	5.2	7.0	4.5	5.0	6.5		
110 PST-K12-129	4.8	4.8	4.9	6.5	6.5	4.5	9.0		
111 PST-T14-41	4.8	4.8	4.8	5.5	5.5	3.5	9.0		
112 PST-K11-118	4.8	4.8	4.8	7.0	4.0	4.5	8.0		
113 PST-T12-31	4.8	4.8	4.8	4.0	4.5	4.0	5.5		
114 A04-383	4.8	4.2	5.4	6.0	6.0	5.0	9.0		
115 Rubicon	4.7	4.4	5.1	7.0	4.5	5.0	8.5		
116 A10-241	4.7	4.5	5.0	5.0	3.5	3.5	8.5		
117 A14-1	4.7	4.5	5.0	6.5	4.0	3.0	9.0		
118 Oasis	4.7	4.8	4.7	7.5	3.5	3.5	8.5		
119 A11-348	4.7	4.4	5.0	7.0	3.5	3.5	7.0		
120 Legend	4.7	4.7	4.7	4.0	4.5	4.5	8.0		
121 Oasis	4.7	4.7	4.7	6.5	4.5	4.0	9.0		
122 PST-K13-139	4.7	5.1	4.3	7.0	4.5	4.0	5.0		
123 PST-K14-153	4.7	5.4	4.0	3.5	3.0	2.0	2.5		
124 A14-7	4.7	4.6	4.7	7.0	3.5	3.5	6.5		
125 A05-1405	4.7	4.2	5.2	6.5	4.5	3.0	8.5		

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.				
126 RAD-2216	4.7	4.7	5.0	3.0	2.5	9.0
127 Cabernet	4.6	4.6	7.0	5.0	5.0	7.0
128 A14-8	4.6	4.0	5.0	4.0	4.0	9.0
129 PST-K12-133G	4.6	4.9	3.5	4.5	3.5	9.0
130 A11-38	4.6	5.4	6.0	4.5	3.0	5.0
131 PST-T14-40	4.6	4.9	6.5	5.0	4.5	5.5
132 A10-251	4.6	4.4	8.0	4.0	4.5	9.0
133 PST-11-124	4.6	4.4	4.0	3.5	4.0	6.5
134 A12-9	4.6	4.3	7.5	3.5	4.5	9.0
135 Wildhorse	4.6	4.5	5.5	3.5	3.5	6.5
136 Corsair	4.6	4.6	6.5	4.0	2.0	4.5
137 PST-T13-32	4.6	4.9	5.5	1.0	1.5	9.0
138 Moonlight SLT	4.5	4.7	6.0	2.5	2.0	5.0
139 RAD-2154	4.5	4.6	4.5	4.0	2.5	8.5
140 PST-K10-107	4.5	5.1	5.5	2.5	2.0	8.5
141 A01-1789	4.5	4.1	5.5	5.0	5.5	9.0
142 PST-T14-37	4.5	4.7	5.5	3.5	3.0	6.5
143 Sombero	4.5	4.1	6.5	5.0	4.0	8.5
144 Dauntless	4.5	4.3	6.0	3.0	3.0	8.5
145 Midnight Star	4.4	4.7	6.5	4.0	4.0	8.5
146 Noble	4.4	4.3	4.5	3.5	4.0	8.0
147 A05-853	4.4	4.4	6.5	4.5	3.0	8.5
148 A12-31	4.4	4.7	7.0	2.0	3.0	6.0
149 Lunar	4.4	4.5	5.0	3.0	3.0	7.5
150 PST-T13-34	4.4	4.2	5.5	4.5	3.5	7.5

(Continued)



Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.				
151 PST-K12-132	4.4	4.6	4.1	3.5	3.0	9.0
152 RAD-2376	4.4	4.7	4.1	3.0	2.5	5.5
153 PST-K14-152	4.4	4.4	4.3	2.0	2.0	8.0
154 A04-1260	4.3	3.8	4.9	5.0	5.0	9.0
155 Raven	4.3	4.4	4.3	4.0	2.5	6.0
156 Barzan	4.3	4.3	4.4	3.5	2.5	9.0
157 Bordeaux	4.3	4.3	4.4	3.5	2.5	6.5
158 Selway	4.3	4.0	4.6	5.0	4.5	9.0
159 A08-383	4.3	4.5	4.0	4.0	4.0	5.5
160 RAD 553	4.2	4.6	3.9	4.0	3.5	7.5
161 Volt	4.2	4.3	4.2	3.5	2.5	6.5
162 PST-T14-39	4.2	4.0	4.4	5.0	3.5	7.5
163 Aviator	4.2	4.1	4.3	2.5	2.0	7.5
164 RAD-2142	4.2	4.2	4.2	2.5	3.0	5.5
165 Zinger	4.2	4.5	3.9	4.0	3.0	4.0
166 Zinfandel	4.2	4.1	4.3	4.0	4.0	8.0
167 Gaelic	4.2	4.0	4.3	4.5	4.0	7.0
168 A06-3	4.1	3.9	4.4	4.0	3.0	7.5
169 PST-K14-144	4.1	4.2	4.1	2.5	2.5	4.0
170 A10-873	4.1	4.2	4.0	4.0	3.5	8.5
171 RAD-2399	4.1	3.9	4.3	3.5	3.5	9.0
172 RAD-2410	4.1	4.2	3.9	2.5	2.0	4.5
173 PST-K14-149	4.0	3.2	4.9	5.0	3.0	6.5
174 A10-874	4.0	4.4	3.7	4.0	2.0	5.0
175 Gateway	4.0	4.3	3.8	4.5	3.5	6.0

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
176 Bluestar	4.0	3.8	4.2			4.0	3.0	3.0	9.0
177 RAD-2375	3.9	4.0	3.9			8.0	5.0	3.5	8.5
178 A14-6	3.9	3.9	4.0			6.5	3.5	2.5	5.5
179 PST-K14-146	3.9	3.9	3.8			2.5	4.0	3.5	2.5
180 Appalachian	3.8	4.3	3.4			7.5	2.0	2.5	5.0
181 PST-K14-154	3.8	4.4	3.3			5.0	2.0	1.0	2.5
182 RAD-2359	3.8	3.9	3.7			8.5	4.0	3.0	9.0
183 RAD-2177	3.8	3.2	4.4			4.0	3.0	3.0	8.0
184 SPF 30	3.8	4.3	3.3			6.0	3.0	2.5	5.0
185 RAD-2141	3.8	3.9	3.7			5.5	3.5	1.5	8.0
186 RAD-2156	3.7	3.6	3.7			4.0	3.0	3.0	9.0
187 RAD-2371	3.5	3.8	3.3			9.0	3.5	3.0	7.0
188 NAI 13-1	3.5	3.0	3.9			6.0	3.5	3.0	9.0
189 NAI 13-3	3.4	4.2	2.6			6.5	3.0	2.5	2.5
190 RAD-2323	3.1	2.4	3.8			7.5	2.5	3.0	7.0
191 Blackjack	3.1	3.3	2.8			5.0	2.5	1.5	3.0
192 RAD-2292	2.8	2.2	3.5			5.5	3.0	2.5	4.0
193 Camas	2.8	2.9	2.7			9.0	1.0	1.0	6.5
194 Action	2.7	2.8	2.7			8.0	1.5	2.0	5.0
195 RAD-2360	2.6	3.1	2.1			8.5	1.5	1.0	7.0
LSD at 5% =	0.8	1.0	1.0			1.7	1.8	1.8	3.6

(Continued)

Table 4. Kentucky bluegrass turf trial, 2014 (continued).

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

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

<sup>3</sup>9 = best wear quality

<sup>4</sup>9 = best recovery from wear

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

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background

Table 5. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2014 at Adelphia, NJ. (Includes entries from the 2014 CTBT Kentucky Bluegrass Test.)

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.	2015 Avg.	2016 Avg.				
1 AKB2839	6.3	6.2	6.3	6.3	6.3	4.0	6.3	6.7	9.0
2 AKB2949	6.1	6.1	6.0	6.0	6.0	4.7	5.3	5.0	8.7
3 Keeneland	5.9	5.9	6.0	6.0	6.0	5.3	5.3	5.7	8.7
4 K10-111	5.8	5.6	6.0	6.0	6.0	6.0	6.0	7.3	9.0
5 Bluenote	5.7	5.8	5.6	5.6	5.6	6.0	4.0	6.0	7.7
6 Bedazzled	5.7	5.4	6.0	6.0	6.0	4.0	4.0	4.0	7.7
7 AKB434	5.7	5.3	6.1	6.1	6.3	5.3	6.3	5.7	6.3
8 K13-137	5.7	4.9	6.4	6.4	4.3	5.7	4.3	4.3	8.7
9 Mallard	5.6	5.3	6.0	6.0	4.0	5.3	4.0	4.7	9.0
10 Midnight	5.6	5.7	5.5	5.5	4.7	5.0	4.7	3.0	7.7
11 A08-3	5.6	5.6	5.6	5.6	3.3	6.0	3.3	3.7	8.0
12 A04-68	5.6	6.0	5.1	5.1	6.0	5.0	6.0	5.0	7.7
13 T14-38	5.5	5.3	5.8	5.8	5.7	5.7	5.7	4.7	4.3
14 Bewitched	5.5	5.2	5.9	5.9	5.7	7.0	5.7	5.7	7.7
15 AKB2836	5.5	5.9	5.1	5.1	4.0	6.0	4.0	3.3	8.3
16 Right	5.5	5.7	5.3	5.3	4.7	4.3	4.7	3.3	5.3
17 AKB2404	5.5	5.6	5.4	5.4	5.0	6.0	5.0	3.7	8.0
18 K13-138	5.5	5.6	5.4	5.4	4.3	5.7	4.3	3.3	4.0
19 T12-31	5.4	5.6	5.3	5.3	6.7	4.3	6.7	5.7	6.0
20 AKB1812	5.4	5.2	5.6	5.6	4.7	4.7	4.7	4.0	7.3
21 AKB1764	5.4	5.5	5.3	5.3	4.3	6.3	4.3	4.0	9.0
22 A99-523	5.4	4.9	5.8	5.8	4.0	5.0	4.0	5.7	9.0
23 AKB1820	5.3	5.0	5.6	5.6	3.7	4.7	3.7	4.0	6.7
24 K14-155	5.3	5.1	5.5	5.5	3.7	5.3	3.7	3.7	8.0
25 PST-K10-106D	5.3	5.1	5.5	5.5	6.3	5.3	6.3	6.0	9.0

(Continued)

Table 5. Kentucky bluegrass turf trial, 2014 (CTBT) (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----		Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.				
26 AKB2403	5.3	5.2	5.7	5.7	5.0	7.0
27 A06-2	5.2	5.4	4.3	3.7	4.3	5.7
28 A98-1001	5.2	5.0	5.7	4.3	5.0	7.7
29 TD-8	5.1	5.1	7.0	4.0	4.0	6.3
30 T10-18	5.1	5.0	6.0	5.7	4.3	6.3
31 K13-141	5.1	5.2	5.0	3.7	3.3	7.0
32 AKB1162	5.1	5.0	5.3	5.3	5.0	7.0
33 T10-22	5.1	5.0	5.7	5.3	4.7	7.3
34 A05-342	5.1	4.9	5.3	3.7	3.3	9.0
35 Ridgeline	5.0	5.3	4.3	3.0	3.0	7.0
36 AKB1078	5.0	5.3	5.7	2.7	1.3	3.3
37 KH3492	5.0	5.0	6.0	4.3	4.0	6.0
38 A12-3	4.9	5.0	4.7	4.0	4.3	6.7
39 AKB1193	4.9	4.8	6.3	3.3	3.0	7.7
40 AKB510	4.9	4.7	6.0	4.7	3.0	7.7
41 A10-1	4.9	4.9	6.3	3.3	3.7	7.0
42 AKB2313	4.9	5.0	5.0	4.0	3.0	8.3
43 Dauntless	4.9	4.6	6.3	3.3	3.3	8.3
44 AKB2543	4.9	4.9	5.7	4.0	3.0	4.7
45 TB 677*	4.9	4.8	5.0	3.3	2.3	6.0
46 A06-671	4.8	4.7	5.3	5.0	3.3	8.7
47 AKB1184	4.8	4.6	5.7	4.3	3.7	6.3
48 A10-5	4.8	4.3	5.0	3.3	3.0	7.0
49 A12-1	4.8	5.0	5.7	2.7	3.3	4.7
50 A04-1381	4.8	4.6	5.3	4.0	4.0	6.0

(Continued)

Table 5. Kentucky bluegrass turf trial, 2014 (CTBT) (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
51 K13-139	4.7	5.1	4.4			4.3	3.7	3.7	6.0
52 Mercury	4.7	4.5	5.0			5.7	3.0	3.3	9.0
53 DDOKM	4.7	4.7	4.8			6.0	3.3	3.3	8.7
54 Haromine	4.7	4.5	4.9			5.3	5.3	4.3	6.3
55 A99-2897	4.7	4.5	4.9			4.7	1.7	2.0	6.3
56 K11-118	4.7	4.8	4.6			5.3	3.7	4.0	6.7
57 A06-643	4.7	4.1	5.3			4.7	5.0	3.3	7.0
58 A06-3	4.7	4.8	4.5			4.3	2.7	2.0	7.0
59 K10-110	4.6	4.7	4.6			4.7	4.3	3.7	4.0
60 America	4.6	4.4	4.9			5.0	3.7	3.3	6.7
61 Rhapsody	4.6	4.9	4.4			5.7	3.3	3.0	6.0
62 Crest 5K-12	4.6	4.4	4.9			6.0	3.3	3.0	6.7
63 A98-3366	4.6	4.7	4.5			5.0	3.0	2.7	4.0
64 K12-133G	4.6	4.9	4.3			4.7	3.3	3.3	6.7
65 T14-40	4.5	5.2	3.9			4.0	3.3	2.7	3.3
66 K13-140	4.5	4.5	4.6			6.3	3.0	3.0	7.7
67 A09-353	4.5	4.8	4.3			5.3	3.7	2.3	7.7
68 T13-34	4.5	4.6	4.4			5.0	3.7	3.3	5.7
69 K14-152	4.5	4.5	4.5			4.3	2.7	2.3	5.7
70 A08-2	4.5	4.7	4.3			4.3	2.3	1.0	4.0
71 T14-39	4.5	4.5	4.4			5.7	5.0	3.3	5.7
72 AKB1147	4.5	4.7	4.2			4.7	2.7	2.3	4.0
73 A10-4	4.5	4.0	4.9			4.7	3.3	3.3	8.3
74 K10-107	4.5	5.1	3.8			6.0	2.7	2.0	7.7
75 Sombrero	4.4	4.2	4.7			4.3	3.7	3.3	7.7

(Continued)

Table 5. Kentucky bluegrass turf trial, 2014 (CTBT) (continued).

Cultivar or Selection	-----Turf Quality <sup>1</sup> -----					Spring Green-up <sup>2</sup> 17 March 2016	Wear <sup>3</sup> 10 Aug. 2016	Wear Recovery <sup>4</sup> 26 Aug. 2016	Summer Patch <sup>5</sup> 3 Oct. 2016
	2014-2016 Avg.	2015 Avg.	2016 Avg.						
76 A06-19	4.4	4.4	4.5	5.7	3.0	2.3	5.3		
77 AKB1661	4.4	4.1	4.7	4.0	4.0	3.3	7.0		
78 K11-125	4.4	4.7	4.0	4.0	3.0	2.0	2.3		
79 K13-143	4.3	4.4	4.3	5.3	2.7	3.0	6.0		
80 A12-2	4.3	4.7	3.9	5.7	2.7	2.0	6.0		
81 A09-258	4.3	4.6	4.0	5.0	3.7	3.3	9.0		
82 Spitfire*	4.3	4.6	3.9	4.0	3.3	2.3	4.3		
83 K12-132	4.2	4.6	3.9	5.0	2.7	2.3	7.0		
84 K14-148	4.2	4.4	4.1	5.7	4.3	2.7	6.0		
85 Geronimo	4.2	4.3	4.1	5.0	3.3	3.0	5.0		
86 AKB2310	4.2	4.3	4.0	4.7	2.7	3.0	7.3		
87 AKB2120	4.1	3.9	4.2	5.3	3.7	3.3	4.7		
88 TD-2	4.0	4.7	3.3	5.7	2.3	1.7	1.7		
89 TD-7	4.0	4.4	3.5	4.7	2.0	1.0	2.3		
90 A10-873	3.9	3.7	4.1	5.3	4.0	3.0	8.3		
91 PST-K9-103	3.9	3.7	4.0	5.0	3.0	1.7	5.0		
92 Crest	3.7	3.9	3.5	5.7	3.0	2.0	7.3		
93 Touchdown	3.6	4.1	3.0	5.7	2.3	2.0	4.0		
94 AKB1892	3.3	3.4	3.2	6.0	2.3	1.3	4.3		
95 TD-5	3.3	4.2	2.4	4.3	1.3	1.0	1.0		
96 Kenblue	3.0	3.3	2.7	6.0	2.3	2.3	2.0		
97 TD-4	2.9	3.7	2.0	5.3	1.3	1.0	1.0		
LSD at 5% =	0.6	0.7	0.8	1.7	1.2	1.5	2.9		

(Continued)

Table 5. Kentucky bluegrass turf trial, 2014 (CTBT) (continued).

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

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

<sup>3</sup>9 = best wear quality

<sup>4</sup>9 = best recovery after wear

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

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background



Table 6. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2015 at Adelphia, NJ.

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
1 KB11OT-31	6.5	5.3	5.7
2 Legend	6.4	6.7	5.3
3 Midnight II	6.2	3.7	6.0
4 Right	6.2	5.3	5.0
5 Bluebank	6.1	5.3	6.3
6 J-1136	6.1	8.0	5.3
7 Midnight	6.1	5.7	5.7
8 KB11OT-4	6.1	5.0	7.0
9 A15-18	6.0	6.0	6.0
10 Liberator	6.0	7.7	5.7
11 Blue Note	6.0	5.7	6.0
12 Rugby II	6.0	4.7	6.0
13 NuDestiny	5.9	6.7	6.0
14 PST-K13-137	5.9	3.3	6.7
15 Rush II	5.9	5.7	5.3
16 A15-17	5.8	5.3	5.0
17 A06-60	5.8	1.7	6.0
18 Everest	5.8	6.7	4.7
19 Midnight II	5.7	5.0	5.3
20 Hampton	5.7	7.3	4.7
21 PST-T13-39	5.7	3.7	5.0
22 PST-11-7	5.7	3.3	7.0
23 A13-3	5.7	3.0	7.0
24 A04-67	5.7	5.3	4.3
25 Award	5.7	6.3	5.0
26 Bluechip Plus	5.7	6.7	4.7
27 A12-38	5.7	5.3	6.0
28 NuGlade	5.6	5.3	5.3
29 RAD-2868	5.6	4.0	3.0
30 Blue Devil	5.6	8.0	5.3
31 KB13OT-4	5.6	3.3	4.7
32 Beyond	5.6	5.7	5.3
33 A07-385	5.6	8.3	6.3
34 J-1853	5.6	6.3	5.0
35 A13-1	5.6	2.0	5.7

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
36 A15-9	5.5	4.3	6.7
37 PST-K13-143	5.5	2.7	4.0
38 NAI-13-6	5.5	2.3	6.3
39 KB13OT-20	5.5	3.3	6.7
40 A15-276	5.5	4.3	4.7
41 Blue Coat	5.5	6.3	4.7
42 A11-38	5.5	3.3	4.7
43 PST-K15-157	5.5	3.0	6.0
44 PST-K15-162	5.5	3.7	5.0
45 PST-T13-44	5.5	4.7	6.0
46 A11-49	5.5	3.7	7.7
47 A14-15	5.5	5.0	5.0
48 A15-14	5.4	5.7	4.7
49 A15-15	5.4	4.3	6.7
50 A15-19	5.4	4.7	1.7
51 A10-280	5.4	3.0	3.3
52 A14-5	5.4	5.3	5.7
53 A15-21	5.4	5.7	3.3
54 My Holiday Lawn	5.4	5.3	5.7
55 Ginney II	5.4	5.7	5.3
56 KB13OT-16	5.4	3.7	6.7
57 A06-8	5.4	2.7	6.7
58 PST-K13-140	5.4	4.3	3.3
59 PST-K15-177	5.4	3.3	8.0
60 PST-T13-42	5.4	4.7	6.3
61 A15-12	5.3	3.0	7.3
62 Aries	5.3	8.0	4.0
63 Volt	5.3	7.3	4.0
64 PST-K8-66	5.3	5.7	5.0
65 NAI-14-128	5.3	3.3	6.7
66 PST-T13-45	5.3	1.7	2.3
67 A05-361	5.3	3.3	4.0
68 A15-22	5.3	3.0	3.7
69 Bolt	5.3	7.3	4.3
70 A15-6	5.3	4.0	6.3

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
71 KB13OT-17	5.3	2.3	5.0
72 A10-251	5.3	4.0	4.0
73 A09-793	5.2	5.7	3.0
74 Impact	5.2	6.7	5.0
75 Glacier	5.2	6.0	3.3
76 Lunar	5.2	6.0	4.0
77 PST-K15-163A	5.2	4.7	4.3
78 PST-K15-195	5.2	3.3	5.0
79 A07-1230	5.2	3.7	5.3
80 A12-37	5.2	4.0	6.0
81 A15TB-271*	5.2	2.7	3.7
82 A15-5	5.2	4.7	3.3
83 A10-245	5.2	4.3	6.0
84 NuBlue Plus	5.2	5.7	5.0
85 A12-38	5.2	4.0	6.7
86 PST-K15-174	5.2	3.0	6.3
87 A13-3	5.2	2.0	7.3
88 A13-18	5.2	4.0	4.0
89 A15-4	5.1	5.3	6.0
90 A15-20	5.1	5.3	4.0
91 Apollo	5.1	4.7	6.0
92 KB13OT-6	5.1	3.3	6.3
93 Everglade	5.1	8.0	5.0
94 RAD-2221	5.1	3.7	5.0
95 RAD-2276	5.1	5.3	4.7
96 Fullback	5.1	5.7	5.7
97 NAI-14-126	5.1	2.7	5.7
98 KB13OT-12	5.1	2.0	5.3
99 A14-10	5.1	5.0	6.0
100 PST-K15-165	5.1	4.7	5.7
101 PST-K15-167	5.1	3.7	5.0
102 PST-K15-172	5.1	3.0	4.0
103 PST-T13-46	5.1	3.3	6.0
104 A05-314	5.1	4.0	5.0
105 A12-7	5.1	5.3	4.7

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
106 Zinger	5.1	7.0	4.7
107 RAD-7PH6	5.1	7.7	3.0
108 Rubix	5.1	5.0	4.3
109 A06-3	5.1	3.7	6.7
110 Gaelic	5.1	5.3	4.3
111 A09-312	5.0	3.7	5.3
112 NAI-14-13	5.0	1.3	5.3
113 PST-K15-176	5.0	3.7	4.0
114 A12-31	5.0	3.3	4.0
115 A13-16	5.0	5.0	5.0
116 A15-10	5.0	5.3	4.0
117 Prosperity	5.0	6.0	6.0
118 PST-K13-139	5.0	3.3	3.7
119 A11-42	5.0	4.7	4.7
120 A15TB-270*	5.0	2.0	4.3
121 A15TB-273*	5.0	1.3	4.7
122 Gladstone	5.0	4.0	5.3
123 Shannon	5.0	7.0	3.7
124 NAI-14-205	5.0	2.3	4.7
125 PST-K15-161	5.0	2.7	4.0
126 A15-16	4.9	4.3	4.0
127 Diva	4.9	6.3	3.0
128 CRS 630	4.9	5.7	5.0
129 PST-IT5-86	4.9	2.3	4.3
130 A15TB-274*	4.9	1.7	5.0
131 RAD-2191	4.9	2.0	5.3
132 CRS 632	4.9	6.7	4.3
133 Dauntless	4.9	6.3	5.0
134 NAI-13-9	4.9	2.3	6.3
135 A12-9	4.9	2.3	3.7
136 PST-T13-38	4.9	3.7	5.3
137 A00-1400	4.9	3.3	6.0
138 A10-253	4.9	5.0	3.3
139 Wild Horse	4.9	5.7	4.0
140 A09-794	4.8	4.3	3.0

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
141 CRS 631	4.8	5.3	5.0
142 Rubicon	4.8	3.3	3.7
143 PST-K15-168	4.8	1.7	5.3
144 A11-41	4.8	6.3	4.0
145 Fahrenheit 90*	4.8	5.0	4.0
146 RAD-1376	4.8	3.7	4.7
147 PST-K15-171	4.8	2.3	7.3
148 A09-256	4.8	2.3	5.0
149 A15-8	4.8	5.0	3.0
150 Noble	4.8	5.7	6.7
151 KB13OT-13	4.8	5.3	3.3
152 KB13OT-18	4.8	2.7	5.3
153 KB13OT-19	4.8	4.0	5.3
154 PST-K15-150	4.8	1.3	5.0
155 NAI-13-39	4.7	1.7	6.0
156 KB11OT-47	4.7	3.0	3.3
157 A12-8	4.7	1.7	5.0
158 A12-293	4.7	4.7	6.0
159 Jumpstart	4.7	3.3	6.3
160 PST-11-241	4.7	2.0	7.7
161 Arrowhead	4.7	7.0	5.3
162 RAD-1391	4.7	2.3	5.0
163 A13-332	4.7	5.7	3.7
164 PST-K11-122	4.7	1.7	3.0
165 NAI-13-14	4.7	2.3	6.0
166 Limousine	4.7	3.7	5.0
167 NAI-13-33	4.7	1.7	5.3
168 PST-K11-124	4.7	3.0	4.7
169 PST-K13-141	4.7	2.3	4.3
170 PST-11A-75	4.7	2.3	6.0
171 A12-28	4.7	4.7	3.7
172 A15TB-277	4.7	1.3	4.3
173 NAI-13-84	4.6	1.3	6.3
174 A09-789	4.6	6.3	2.7
175 Arc	4.6	4.3	3.3

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
176 Gaelic	4.6	5.7	4.7
177 NAI-14-210	4.6	1.7	5.7
178 A12-265	4.6	2.3	6.0
179 RAD-2250	4.6	4.0	3.7
180 Black Jack	4.6	3.3	4.3
181 NAI-11-644	4.6	2.3	6.7
182 NAI-13-15	4.6	1.0	6.3
183 NAI-13-132	4.6	1.7	5.3
184 PST-T13-34	4.6	1.7	5.0
185 A05-853	4.6	6.0	4.0
186 A15TB-272*	4.6	2.7	4.3
187 A10-873	4.5	6.0	4.0
188 PST-11-1-3	4.5	4.7	3.3
189 A15-2	4.5	1.7	4.3
190 P-105	4.5	3.0	3.7
191 A13-347	4.5	6.0	2.7
192 A11-396	4.5	3.7	5.3
193 A05-1405	4.5	2.0	4.7
194 A12-266	4.5	4.7	5.0
195 A15-13	4.4	5.7	3.7
196 Blitz	4.4	5.7	2.7
197 Jumpstart	4.4	7.0	2.0
198 Alexa II	4.4	1.3	5.3
199 A13-5	4.4	2.7	7.0
200 Raven	4.3	7.3	5.3
201 RAD-2027	4.3	4.3	4.7
202 RAD-2140	4.3	4.0	3.7
203 NAI-12-38	4.3	3.0	4.3
204 PST-10-138	4.3	1.7	6.7
205 A15-275	4.3	1.3	5.7
206 NAI-13-131	4.3	2.3	4.7
207 00-3487	4.3	4.3	6.0
208 RAD 553	4.3	6.3	2.7
209 SPF 30	4.3	7.7	4.3
210 NAI-14-212	4.3	2.0	4.0

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
211 PST-K15-170	4.3	3.3	6.7
212 A15-1	4.2	4.7	3.0
213 Selway	4.2	6.7	2.3
214 PST-K11-118	4.2	2.0	3.7
215 PST-K11-125	4.2	2.0	6.7
216 PST-K15-160	4.2	4.0	4.7
217 PST-K15-173	4.2	2.0	5.0
218 A14-8	4.2	4.7	4.3
219 A15-279	4.2	1.3	3.7
220 NAI-13-105	4.2	3.7	3.3
221 PST-K15-164A	4.2	1.3	5.0
222 PST-K15-166	4.2	3.7	5.3
223 NAI-14-15	4.2	1.0	6.0
224 NAI-13-34	4.2	1.0	6.7
225 PST-K15-159	4.2	2.0	4.0
226 RAD-1677	4.1	2.3	4.3
227 Corsair	4.1	3.0	3.0
228 Bluestar	4.1	4.7	4.7
229 NAI-13-1	4.1	2.0	1.7
230 A11-396	4.1	5.0	1.0
231 PST-K15-158	4.1	1.3	2.7
232 RAD-1971	4.1	3.7	3.0
233 A13-21	4.1	1.7	4.0
234 PST-T13-43	4.1	3.0	5.0
235 Rockstar	4.0	2.0	4.0
236 Arc	4.0	2.0	4.3
237 RAD-1405	4.0	5.0	4.0
238 Bewitched	4.0	1.0	6.3
239 NAI-12-41	4.0	4.3	3.7
240 PST-105-69	4.0	2.0	3.7
241 PST-8-56	4.0	1.3	4.0
242 PST-K15-169	4.0	1.0	5.0
243 NAI-13-32	4.0	1.0	6.3
244 NAI-14-105	3.9	1.0	6.0
245 Gateway	3.9	1.0	3.3

(Continued)

Table 6. Kentucky bluegrass turf trial, 2015 (continued).

Cultivar or Selection	Turf Quality <sup>1</sup> 2016 Avg.	Establishment <sup>2</sup> 16 Oct. 2015	Leaf Spot <sup>3</sup> 10 May 2016
246 A11-778	3.9	3.0	1.3
247 A15TB-278*	3.9	1.0	5.0
248 NAI-14-201	3.8	1.0	6.0
249 NAI-14-211	3.8	1.3	5.3
250 NAI-13-130	3.8	1.3	5.7
251 A13-313	3.8	4.3	2.0
252 KB13OT-3	3.7	3.7	4.3
253 NAI-13-121	3.6	1.7	5.7
254 GO-MRC	3.5	4.3	3.7
255 NAI-15-0153	3.5	2.0	4.0
256 NAI-13-107	3.5	1.0	5.7
257 PST-11-149	3.5	2.7	2.7
258 NAI-14-175	3.5	1.3	3.7
259 NAI-3840	3.4	1.0	7.0
260 RAD-2010	3.4	6.3	1.3
261 A15-11	3.3	4.3	1.3
262 NAI-14-214	3.3	1.7	4.3
263 NAI-14-219	3.2	1.3	4.0
264 NAI-14-217	3.2	1.0	4.7
265 NAI-14-183	3.2	2.3	3.0
266 NAI-13-124	3.0	1.7	3.3
267 RAD-2015	2.9	3.0	2.0
268 NAI-14-104	2.8	1.7	1.7
269 PST-21P5135	2.7	4.7	1.0
270 NAI-14-207	2.5	1.0	2.3
271 NAI-13-118	2.3	1.0	2.0
272 Action	2.3	7.3	1.0
273 NAI-14-228	2.2	1.3	1.7
274 NAI-14-202	2.2	1.0	4.3
275 NAI-14-223	1.9	2.0	1.0
276 NAI-13-119	1.8	1.0	5.3
277 NAI-14-114	1.8	1.0	1.3
LSD at 5%=	0.8	1.6	1.3

(Continued)



Table 6. Kentucky bluegrass turf trial, 2015 (continued).

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

<sup>2</sup>9 = best establishment

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

\*Texas bluegrass hybrid in which plants contain a percentage of Texas bluegrass genetics in a Kentucky bluegrass parental background

Table 7. Yearly nitrogen (N) applied and mowing height (Ht) on Kentucky bluegrass tests established at Adelphia, NJ.

	2012		2013		2014		2015		2016	
	N <sup>1</sup>	Ht <sup>2</sup>	N	Ht	N	Ht	N	Ht	N	Ht
Table 1 (2011 NTEP) .....	3.75	1.5	3.0	1.5	2.9	1.5	275	1.5	2.15	1.5
Table 2 (2012).....			3.0	1.5	2.9	1.5	3.00	1.5	1.40	1.5
Table 3 (2013).....					3.6	1.5	3.00	1.5	2.70	1.5
Table 4 (2014).....							3.75	1.5	2.15	1.5
Table 5 (2014 CTBT) .....							3.60	1.5	2.15	1.5
Table 6 (2015).....									4.40	1.5

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

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