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Green Height Bentgrass Cultivar Trial

RFR-A1636

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Introduction

This is the second year of data from the green height bentgrass trial established in the fall of 2014. This is a National Turfgrass Evaluation Program (NTEP) trial and is being conducted at several research stations in the United States. It contains 20 seeded cultivars, including a number of the newest experimental cultivars.

Materials and Methods

The mowing height is 3/16-in. The cultivars are maintained with a fertilizer program of 1/4 lb N applied at 14-day intervals with a total of 3-4 lb of N/1,000 ft² per growing season. Fungicides are used as needed in a preventive program. Herbicides and insecticides are applied as needed.

Results and Discussion

The visual quality was evaluated monthly in 2016 from May through October (Table 1). The values listed under each month in Table 1 are the averages of visual quality ratings made on three replicated plots. Visual quality was based on a scale of 9 to 1: 9 = best quality, 6 = lowest acceptable quality, and 1 = worst quality. The yearly average of the monthly data for each cultivar was calculated and is listed in the last column (Mean). The last row states the LSD (least significant difference), which is a statistical measurement of how widely the datum in each column must vary before these are considered to be different from one another. Genetic color was rated using a 9 to 1 scale with 9 = dark and 1 = light green.

The cultivars were not yet fully established in the spring of 2016 and significant differences in quality were not observed until August. The 2017 season will be the first time we can get complete data for the entire season.

Acknowledgements

Appreciation is extended to the NTEP organization for funding to conduct this project.

Table 1. Quality and color ratings for the green height creeping bentgrass trial, 2016.

No.	Cultivar	Color ²	Quality ¹						Mean
			May	June	July	Aug	Sept	Oct	
1	Luminary	7	6	6	6	6	7	7	6
2	DLFPS-AP/3054	8	5	6	7	7	7	7	7
3	DLFPS-AP/3018	7	6	7	7	6	6	6	6
4	DLFPS-AP/3056	8	6	5	6	6	6	6	6
5	DLFPS-AP/3058	8	6	6	7	7	7	6	7
6	DLFPS-AP/3059	7	6	7	6	6	7	6	6
7	Pure Select	7	6	6	8	7	7	7	7
8	Penn A-1	7	6	6	7	5	6	7	6
9	Penncross	6	5	5	5	5	4	5	5
10	L-93XD	7	5	6	6	7	7	7	6
11	Armor	9	5	5	6	7	6	7	6
12	Kingdom	9	5	6	6	5	5	5	5
13	Nightlife	9	5	5	6	6	6	6	6
14	V-8	7	6	7	8	7	6	6	6
15	GDE	8	6	6	8	7	7	6	7
16	DC-1	8	6	6	8	7	7	7	7
17	PST-ROPS	9	6	7	7	7	7	7	7
18	Shark	7	6	7	7	7	6	7	6
19	Barracuda	6	6	6	7	6	7	7	7
20	Declaration	6	6	6	6	6	6	7	6
LSD 0.05		1	NS	NS	NS	1	1	1	1

¹Quality rated on a 1 to 9 scale with 9 = best quality, 1 = lowest quality, and 6 = lowest acceptable quality.

²Color rated using a 9 to 1 scale with 9 = dark and 1 = light green.