

Green Height Bentgrass Cultivar Trial

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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 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 2017 from April 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). Dollar spot (DS) was rated in July on a scale of 9 to 1, where 9 = no disease and 1 = severe disease. The last row states the LSD (least significant difference), which is a statistical measurement of how widely the data 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 green and 1 = light green.

Acknowledgements

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

Table 1. Quality and genetic color rating for the green height creeping bentgrass trial-2017.

	Cultivar	Gen color ²	Quality ¹ 2017							Mean	DS ³
			April	May	June	July	Aug.	Sept.	Oct.		
1	Luminary	7	6	6	7	8	7	7	8	7	8
2	DLFPS-AP/3054	7	7	7	8	8	7	7	6	7	9
3	DLFPS-AP/3018	7	6	6	7	7	7	7	6	6	9
4	DLFPS-AP/3056	7	6	6	7	7	8	8	7	7	9
5	DLFPS-AP/3058	7	7	7	8	8	7	8	7	8	9
6	DLFPS-AP/3059	7	6	6	7	6	7	6	6	6	9
7	Pure Select	7	7	8	8	8	7	7	6	7	8
8	Penn A-1	7	5	5	6	6	7	7	6	6	9
9	Penncross	6	4	5	5	5	6	5	5	5	9
10	L-93XD	7	6	7	7	8	7	7	7	7	9
11	Armor	9	6	5	6	6	6	7	6	6	7
12	Kingdom	9	5	5	6	5	6	6	6	6	8
13	Nightlife	9	5	6	7	6	7	7	6	6	8
14	V-8	7	6	6	7	7	7	7	6	7	9
15	GDE	8	7	7	8	8	7	7	7	7	9
16	DC-1	8	7	8	8	9	8	8	7	8	8
17	PST-ROPS	9	8	7	8	8	5	6	6	7	7
18	Shark	7	7	7	7	7	7	7	6	7	8
19	Barracuda	7	7	7	8	8	7	8	7	7	9
20	Declaration	7	6	6	6	6	6	7	6	6	9
LSD 0.05		1	1	1	2	2	2	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 green and 1 = light green.

³Dollar Spot (DS) rated using a 9 to 1 scale with 9 = no disease and 1 = severe disease.