

Fairway Height Bentgrass Cultivar Trial

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Introduction

This is the third year of data collection from the fairway height bentgrass trial established in the fall of 2014.

Materials and Methods

The area was maintained at a 0.5 in. mowing height. This is a National Turfgrass Evaluation Program (NTEP) trial and is being conducted at several research stations in the United States. It contains 17 of the newest cultivars and a number of experimental cultivars. The cultivars are maintained with 4 lb of N/1,000 ft² per growing season. Fungicides are used as needed in a preventive program. Herbicides and insecticides also 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, 1 = worst, and 6 = lowest acceptable quality. The annual average of the monthly data for each cultivar was calculated and is listed in the last column (Mean). Data for dollar spot (DS) and brown patch (BP) also were collected in July. In both cases, 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 they 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. Data for the fairway height creeping bentgrass trial, 2017.

No.	Cultivars	Color ²	Quality ¹							Mean	DS ³	BP ³
			April	May	June	July	Aug.	Sept.	Oct.			
1	DLFPS-AT/3026	6	6	6	5	5	5	6	6	6	9	8
2	7	7	5	6	6	7	6	5	6	6	8	8
3	Penncross	7	5	6	6	8	6	8	6	7	6	8
4	Crystal Blue Links	7	5	6	7	8	7	7	7	7	8	9
5	Greentime	7	6	6	6	6	6	7	7	6	7	8
6	L-93XD	6	7	6	6	5	6	5	5	6	8	9
7	Armor	8	6	6	6	6	6	7	6	6	7	9
8	Kingdom	9	5	6	6	7	7	6	7	6	8	9
9	Nightlife	8	6	7	6	7	7	7	7	7	7	9
10	V-8	8	6	7	7	7	7	7	7	7	7	9
11	DC-1	8	6	7	6	5	6	6	6	6	8	9
12	PPG-AT 104	7	5	5	6	5	5	6	6	6	7	5
13	H10G-OP	8	6	7	7	7	7	7	7	7	8	9
14	Shark	7	6	6	7	6	6	5	6	6	7	9
15	Barracuda	6	6	6	5	6	7	6	7	6	8	9
16	PST-ORBS	7	6	6	6	7	7	6	7	6	6	7
17	PST-DCV6	7	5	6	6	8	6	6	6	6	6	9
LSD 0.05		1	NS	NS	NS	2	1	2	NS	1	1	2

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

²Color rated on a 1 to 9 scale with 9 = dark green, 1 = light green.

³DS is dollar sport and BP is brown patch. In each case, 9 = no disease and 1 = severe disease.