

R = 137617

2003 Green Height Bentgrass Cultivar Trial-2007 Data

Nick E. Christians and Christopher J. Blume

This is the 4th year of data from the green height bentgrass trial, established in the fall of 2003. The area is maintained at a 3/16-inch mowing height. This is a National Turfgrass Evaluation Program (NTEP) trial and is being conducted at several research stations in the U.S. It contains 26 seeded cultivars, including a number of experimental varieties. Most of the plots are creeping bentgrass, with the exceptions of SR 7200, Legendary, IS-AC 1, EFD, Vesper, and Greenwich, which are velvet bentgrass..

The cultivars are maintained with a fertilizer program of 1/4 lb N applied at 14-day intervals with a total of 3-4 lbs of N/1000 ft²/growing season. Fungicides are used as needed in a preventative program, herbicides and insecticides are applied as needed.

Visual quality was evaluated monthly in 2006 from May through October (Table 1). The values listed under each month in Table 1 are the means of visual quality ratings made on three replicated plots. Visual quality was based on a scale of 9 to 1, with 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 first cultivar listed in Table 1 had the highest average visual quality rating for the entire 2007 season. The cultivars are listed in descending order by average quality. 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 they are considered to be different from one another.

Green up data were collected in April. Data for leaf texture (LeafTex), where 9 has a finer texture, and genetic color (GenColor) were collected in June 2007. Genetic color was rated using a 9 to 1 scale, with 9 = dark and 1 = light green.

Table 1. 2007 visual quality and other ratings for cultivars from the Green Height Bentgrass Trial that was established in 2003. SR 7200, Legendary, IS-AC1, EFD, Vesper, and Greenwich are velvet bentgrass cultivars. All other cultivars are creeping bentgrass.

NAME	GENCOLOR	GREENUP	LEAFTEX	APR	Quality							MEAN
					MAY	JUN	JUL	AUG	SEP	OCT		
IS-AP 9	7.7	6.3	7.3	6.7	6.3	7.3	8.0	8.0	7.7	7.7	7.4	
SHARK (23R)	8.0	6.0	8.0	6.3	6.7	7.7	8.0	7.7	7.7	7.0	7.3	
AUTHORITY (235050)	7.3	5.7	8.0	6.3	6.7	8.0	7.7	7.3	7.0	7.3	7.2	
LS-44	7.3	6.3	7.0	6.0	7.3	7.3	8.7	7.7	6.7	7.0	7.2	
T-1	6.0	7.0	6.7	6.3	6.7	6.3	7.7	7.3	7.3	8.0	7.1	
007 (DSB)	8.0	7.0	7.3	6.0	6.7	8.0	8.0	8.0	6.0	6.3	7.0	
MACKENZIE (SRX 1GPD)	7.3	5.0	8.0	6.7	7.3	8.0	7.3	7.7	5.7	6.7	7.0	
DECLARATION	7.7	5.7	7.0	6.3	7.3	7.0	8.0	7.0	5.7	6.7	6.9	
13-M	7.3	6.3	7.0	6.0	6.3	6.7	7.0	7.3	7.3	7.0	6.8	
BENGAL	6.7	7.0	6.7	6.0	6.3	6.3	8.0	7.7	6.7	6.7	6.8	
INDEPENDENCE	7.3	5.7	6.7	7.0	6.7	6.3	7.0	7.0	6.3	6.7	6.7	
PENN A-1	6.7	6.3	6.7	5.7	6.0	6.7	8.0	8.0	5.7	6.7	6.7	
ALPHA	7.3	6.0	7.0	6.0	6.7	7.0	7.7	7.3	5.7	6.0	6.6	
CY-2	7.0	5.3	7.0	6.0	7.0	6.3	8.0	7.3	5.7	6.0	6.6	
TYEE (SRX 1GD)	7.7	6.3	7.3	6.7	6.7	7.3	8.0	6.3	5.3	6.0	6.6	
VILLA (IS-AC 1)	7.3	6.3	8.0	6.3	6.7	6.7	6.7	6.3	6.3	6.3	6.5	
KINGPIN (9200)	6.7	7.0	6.7	5.3	6.0	6.0	6.7	7.0	6.7	7.3	6.4	
BENCHMARK DSR	6.7	7.0	6.7	5.7	6.7	6.3	7.0	7.0	5.0	6.7	6.3	
GREENWICH	7.3	7.0	8.3	6.3	6.3	6.3	6.3	6.0	6.3	6.7	6.3	
MEMORIAL (A03-EDI)	6.7	7.0	7.0	5.3	6.7	6.7	6.3	6.7	6.0	6.3	6.3	
LEGENDARY	7.3	6.3	8.3	6.3	6.7	6.3	6.3	5.3	6.3	6.3	6.2	
SR 7200	6.3	7.0	6.7	6.0	6.0	5.7	7.3	6.0	6.3	6.3	6.2	
PENNCROSS	6.7	5.7	6.7	5.7	6.0	6.0	6.7	6.3	6.0	6.3	6.1	
PENNLINKS II	6.0	7.0	7.0	5.7	6.0	5.3	6.7	6.0	6.3	6.0	6.0	
VENUS (EFD)	7.0	5.7	8.0	5.3	5.3	6.3	6.3	6.0	5.3	6.0	5.8	
VESPER	6.3	6.3	7.3	5.3	5.7	6.3	6.0	5.3	5.3	6.0	5.7	
LSD	1.7	3.0	0.9	1.7	1.3	1.3	1.5	1.6	1.3	2.1	0.7	