

Green Height Bentgrass Cultivar Trial (Native Soil) - Established 1993

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This is the third year of data from the Green Height Bentgrass Cultivar trial established in the fall of 1993. The area was 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 28 seeded cultivars including a number of experimentals.

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

Pennlinks was the highest rated cultivar in 1996 (Table 1). The first 25 cultivars are statistically the same. Data on genetic color (Gcolor), leaf texture (Ltex), green up (Grnup), and winter kill (Wkill) ratings are also included in Table 1. Winter kill in the spring of 1996 was particularly bad. As can be seen from the data, some cultivars sustained much more damage than others.

Table 1. The 1996 ratings for the green height bentgrass trial.

| | Cultivar | Gcolor | Ltex | Wkill | Grnup | Quality | | | | | | Mean |
|----|-----------------------|--------|------|-------|-------|---------|------|------|-----|------|-----|------|
| | | | | | | May | June | July | Aug | Sept | Oct | |
| 1 | Pennlinks | 7.3 | 6.0 | 50.0 | 6.7 | 5.0 | 6.7 | 6.3 | 6.0 | 6.3 | 6.0 | 6.1 |
| 2 | Providenc | 7.7 | 6.3 | 70.0 | 6.0 | 3.7 | 6.7 | 7.0 | 6.0 | 6.7 | 6.3 | 6.1 |
| 3 | Penn A-1(A-1) | 7.7 | 8.0 | 63.3 | 6.7 | 4.3 | 6.0 | 6.7 | 6.7 | 6.3 | 6.0 | 6.0 |
| 4 | 18th Green | 7.7 | 6.7 | 63.3 | 6.7 | 4.0 | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 5.9 |
| 5 | Regent | 6.3 | 6.7 | 46.7 | 6.0 | 4.0 | 6.3 | 6.3 | 5.7 | 6.3 | 7.0 | 5.9 |
| 6 | Southshore | 7.3 | 7.0 | 56.7 | 7.0 | 4.3 | 5.7 | 6.0 | 6.3 | 7.0 | 6.3 | 5.9 |
| 7 | Imperial (Syn 92-5) | 7.3 | 8.0 | 63.3 | 6.3 | 4.0 | 5.3 | 6.0 | 6.0 | 6.3 | 7.3 | 5.8 |
| 8 | Lofts L-93(l-93) | 7.0 | 6.0 | 53.3 | 6.7 | 4.7 | 5.7 | 7.0 | 6.3 | 5.7 | 5.7 | 5.8 |
| 9 | Century (Syn 92-1) | 6.3 | 8.0 | 53.3 | 6.0 | 3.0 | 6.0 | 5.7 | 6.7 | 6.3 | 6.7 | 5.7 |
| 10 | Msueb | 6.0 | 6.0 | 46.7 | 6.3 | 4.7 | 6.0 | 6.0 | 5.3 | 6.0 | 6.3 | 5.7 |
| 11 | Penncross | 7.0 | 5.3 | 43.3 | 6.0 | 4.0 | 6.3 | 6.3 | 5.3 | 6.0 | 6.0 | 5.7 |
| 12 | Cato | 7.3 | 6.7 | 76.7 | 6.7 | 3.0 | 5.0 | 6.3 | 6.0 | 6.7 | 6.3 | 5.6 |
| 13 | Crenshaw | 7.3 | 7.3 | 73.3 | 6.3 | 3.0 | 5.3 | 6.3 | 6.3 | 6.0 | 6.3 | 5.6 |
| 14 | DG-P | 6.7 | 6.0 | 53.3 | 6.3 | 4.0 | 6.3 | 6.0 | 5.0 | 6.0 | 6.3 | 5.6 |
| 15 | ISI-AP-89150 | 7.0 | 6.7 | 50.0 | 7.0 | 4.0 | 5.3 | 6.0 | 5.3 | 6.0 | 6.7 | 5.6 |
| 16 | Penn G-2 (G-2) | 7.0 | 7.0 | 76.7 | 7.0 | 3.0 | 4.7 | 6.3 | 5.7 | 7.0 | 7.0 | 5.6 |
| 17 | Pro/Cup | 6.7 | 6.0 | 46.7 | 6.3 | 3.7 | 6.0 | 6.0 | 5.7 | 6.3 | 6.0 | 5.6 |
| 18 | SR 1020 | 7.0 | 6.3 | 73.3 | 5.7 | 3.7 | 5.3 | 6.0 | 5.7 | 6.3 | 6.7 | 5.6 |
| 19 | Penn A-4(A-4) | 7.0 | 7.3 | 70.0 | 6.0 | 3.0 | 5.3 | 6.3 | 6.0 | 6.0 | 6.3 | 5.5 |
| 20 | Syn 92-2 | 6.7 | 7.0 | 70.0 | 6.0 | 3.3 | 5.3 | 5.3 | 6.0 | 6.0 | 7.0 | 5.5 |
| 21 | Bar WS 42102 | 7.0 | 7.7 | 76.7 | 6.3 | 2.7 | 5.0 | 6.0 | 5.7 | 6.7 | 6.7 | 5.4 |
| 22 | Mariner (Syn-1-88) | 6.0 | 5.7 | 46.7 | 6.7 | 4.3 | 5.7 | 5.0 | 5.7 | 6.0 | 5.7 | 5.4 |
| 23 | Trueline | 6.3 | 5.3 | 60.0 | 6.7 | 3.7 | 5.3 | 5.7 | 5.3 | 6.7 | 6.0 | 5.4 |
| 24 | Lopez | 6.0 | 5.0 | 63.3 | 5.7 | 3.3 | 5.0 | 5.0 | 5.7 | 6.3 | 6.3 | 5.3 |
| 25 | Penn G-6 (G-6) | 6.0 | 7.0 | 76.7 | 5.7 | 2.3 | 5.0 | 5.7 | 6.3 | 6.3 | 5.7 | 5.2 |
| 26 | Seaside | 6.0 | 5.0 | 60.0 | 5.7 | 4.3 | 5.3 | 5.0 | 4.7 | 5.3 | 5.3 | 5.0 |
| 27 | Bar AS 492 | 6.3 | 7.0 | 70.0 | 5.7 | 2.7 | 5.0 | 4.7 | 4.7 | 6.3 | 6.3 | 4.9 |
| 28 | Tendenz | 5.7 | 7.7 | 63.3 | 7.3 | 4.0 | 4.7 | 4.0 | 4.3 | 5.0 | 5.0 | 4.5 |
| | LSD _(0.05) | 2.1 | 1.1 | 22.2 | 2.5 | 2.0 | 1.0 | 1.1 | 1.0 | 2.6 | 3.0 | 0.9 |

Gcolor (Genetic color): 9 = dark green and 1 = light green.. Ltex (Leaf texture): 9 = fine and 1 = coarse. Wkill (Winter kill): numbers represent % area killed. Grnup(Green up): 9 = best and 1 = poorest greenup.
Quality based on a 9 to 1 scale: 9 = best quality, 6 = lowest acceptable quality, and 1 = poorest quality.