

# BENTGRASS CONVERSION WORKS

Bentgrass seedlings are very small and initially weak. Some varieties such as Tillinghast, Macdonald, 007XL, Futura Pro, MacKenzie or Futura Pro Extreme have greater seedling vigor and can greatly increase your chances of success. In competition for critical resources including light, water and nutrients the established plant always has an advantage over the seedlings.

Timing the overseeding to correspond with favorable growing conditions is extremely important. In some regions this may be an early fall application, whereas in other regions it may be in the late spring or early summer. The existing plants must be weakened to give the seedlings a chance to compete. The new seedlings must be kept moist, which may make the existing playing surface softer and slower.

### BENTGRASS TO BENTGRASS OR POA ANNUA TO BENTGRASS

1. Apply a growth regulator such as Primo or Paclobutrazol
2. Do not apply a pre-emergent herbicide before seeding
3. Reduce height of cut on existing turf (scalp < 0.115 or lower for greens)
4. Verticut heavily to reduce any thatch & further weaken existing turf (this can also be done after core aerifying)
5. Core aerify with largest acceptable tines to create holes in canopy. Solid tines may also be used. This allows seedling time to establish before competition returns & assures seed to soil contact. Topdress or drag in cores to fill holes. Dimple tines & Graden sand inject also work well.
6. Conversion is best in late spring through late summer. Pythium control is very important -- Allegiance treatment gives 14-17 days of control. Seed as late in spring or as early in fall as play conditions allow. June 19, July 1, August 17 & 20 were most successful in New Jersey. August seeding was better at Purdue.
7. Seed Tillinghast, Macdonald, 007XL, Futura Pro, MacKenzie, and Futura Pro Extreme at 1-3 lbs/1000 ft & topdress or drag seed in
8. Keep surface moist - Stay on the dry side if converting from Poa annua
9. Fertilize lightly after germination with quick release nitrogen
10. Low cut height allows more light & reduces competition
11. Selected Poa annua herbicides are safe to use before & after seeding. Consult a chemical rep for advice.
12. Repeat spring & fall for at least two years. Results are generally seen in the third year.

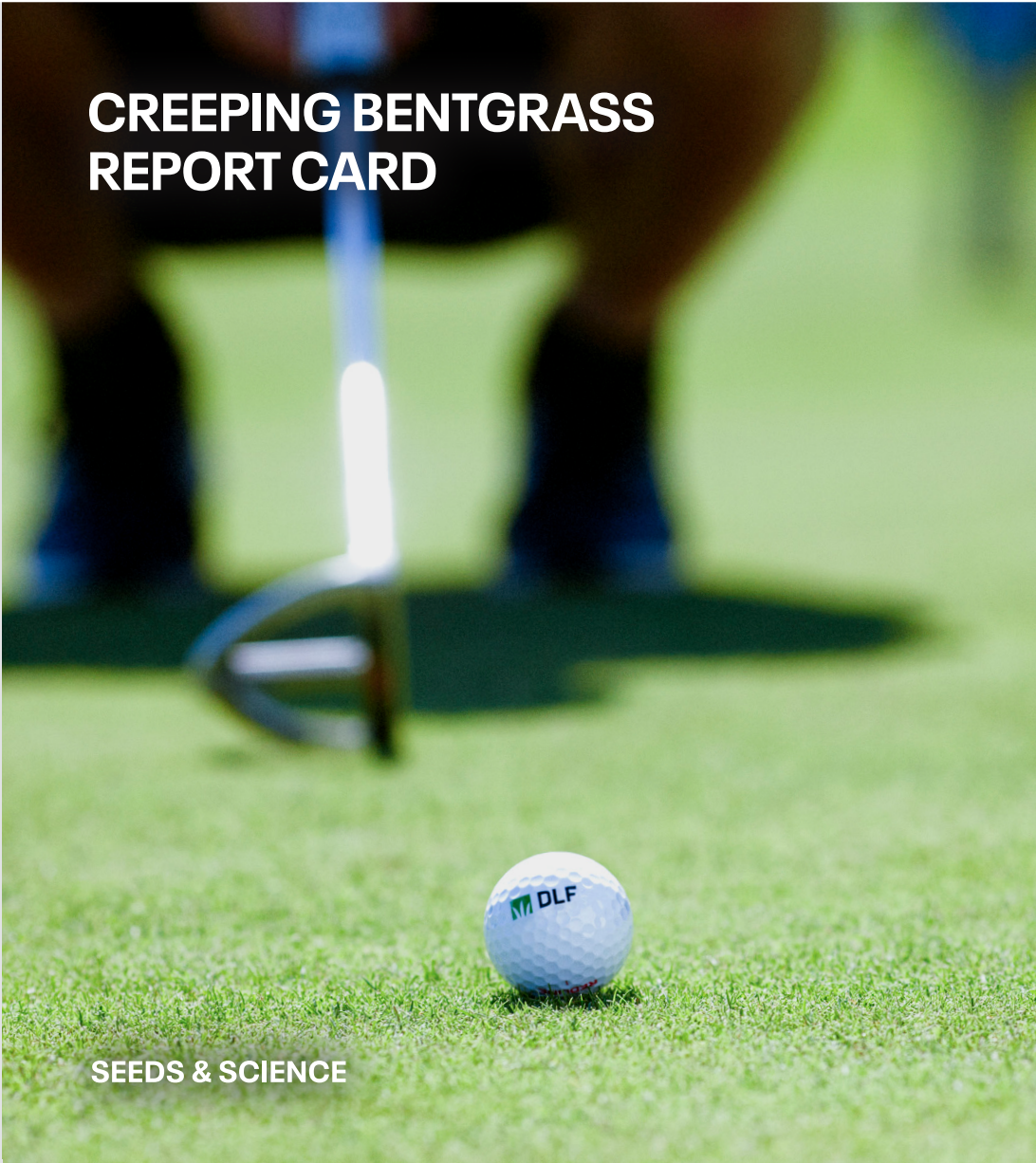


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# JOIN THE REVOLUTION

## CREEPING BENTGRASS REPORT CARD



SEEDS & SCIENCE

| Cultivar (Company)                                                                                                                                                                     | Color                | Leaf Texture | Establish  | OM/Thatch | Bentgrass Bloat - Scalp | Summer Stress Tolerance | Dollar Spot Resistance | Brown Patch Resistance | Cool Temp. Active Growth | Poa annua Resistance | Winter Hardiness | Salt Tolerance | Wear Tolerance |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|------------|-----------|-------------------------|-------------------------|------------------------|------------------------|--------------------------|----------------------|------------------|----------------|----------------|
| SUPER BENTS™ - High Density, Low OM Greens/Tees/Fairways                                                                                                                               |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |
|  Tillinghast (DLF/Seed Research)                                                                       | Dark Green           | Very Fine    | Very Rapid | Very Low  | None                    | Superior                | Superior               | Superior               | Superior                 | Superior             | Superior         | Excellent      | Superior       |
|  007XL (Seed Research)                                                                                 | Medium Dark Green    | Very Fine    | Very Rapid | Low       | None                    | Superior                | Superior               | Superior               | Excellent                | Superior             | Excellent        | Excellent      | Superior       |
|  777 (Seed Research)                                                                                   | Dark Green           | Very Fine    | Very Rapid | Low       | Low                     | Superior                | Very High              | Very High              | Excellent                | Superior             | Superior         | Excellent      | Superior       |
|  007 (Seed Research)                                                                                   | Dark Green           | Fine         | Very Rapid | Low       | None                    | Very High               | Very High              | Very High              | Excellent                | Excellent            | Superior         | Excellent      | Excellent      |
|  Macdonald (DLF)                                                                                       | Dark Green           | Very Fine    | Very Rapid | Low       | Slight                  | Superior                | Very High              | Very High              | Superior                 | Superior             | Excellent        | -              | Superior       |
|  Flagstick (DLF/Seed Research)                                                                         | Dark Green           | Fine         | Very Rapid | Very Low  | None                    | Very High               | Superior               | Superior               | Excellent                | Excellent            | Superior         | -              | Excellent      |
|  MacKenzie (DLF/Seed Research)                                                                         | Dark Bright Green    | Very Fine    | Rapid      | Very Low  | None                    | Very High               | High                   | High                   | Excellent                | Excellent            | Very Good        | High           | Very Good      |
| HIGHER MAINTENANCE - Greens only                                                                                                                                                       |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |
| Diplomacy (PV-1) (Lebanon)                                                                                                                                                             | Medium Green         | Fine         | Rapid      | Low       | None                    | Superior                | Superior               | Superior               | Very High                | Superior             | Excellent        | -              | Excellent      |
| Prodigy (PV-2) (Lebanon)                                                                                                                                                               | Medium Dark Green    | Fine         | Rapid      | Low       | None                    | Excellent               | Superior               | Superior               | Excellent                | Superior             | Excellent        | -              | Excellent      |
| Spectrum (Landmark)                                                                                                                                                                    | Blue Green           | Very Fine    | Very rapid | Low       | Slight                  | Superior                | Superior               | Very High              | Moderate                 | Superior             | Excellent        | -              | Excellent      |
| Authority (Site One)                                                                                                                                                                   | Dark Blue Green      | Very Fine    | Rapid      | High      | Low                     | High                    | High                   | Moderate               | Good                     | Excellent            | Moderate         | -              | -              |
| AU Victory (Auburn)                                                                                                                                                                    | Dark Green           | Fine         | Moderate   | Medium    | Medium                  | Superior                | Very Low               | High                   | Moderate                 | Very Good            | -                | -              | Very Good      |
| Barracuda (Mountain View)                                                                                                                                                              | Dark Green           | Very Fine    | Moderate   | Very High | Slight                  | High                    | Very High              | High                   | Good                     | Very Good            | Excellent        | -              | Very Good      |
| Chinook (Vista)                                                                                                                                                                        | Very Dark Green      | Very Fine    | Moderate   | High      | Low                     | Very High               | High                   | High                   | Excellent                | Very Good            | -                | -              | Excellent      |
| Declaration (Lebanon)                                                                                                                                                                  | Dark Green           | Fine         | Very Rapid | High      | High                    | Moderate                | Very High              | Moderate               | Excellent                | Excellent            | Good             | Excellent      | Moderate       |
| L93XD (Barenbrug/Jacklin)                                                                                                                                                              | Medium Green         | Very Fine    | Slow       | High      | High                    | High                    | Moderate               | Low                    | Good                     | Very Good            | Very Good        | -              | Moderate       |
| Luminary (Landmark)                                                                                                                                                                    | Dark Green           | Very Fine    | Moderate   | Very High | Slight                  | High                    | Moderate               | High                   | Good                     | Good                 | Very Good        | -              | Moderate       |
| Match Play (Landmark)                                                                                                                                                                  | Dark Green           | Fine         | Moderate   | Very High | Moderate                | High                    | High                   | Very High              | Excellent                | Very Good            | Good             | -              | Excellent      |
| Penn A-1 (Tee-2-Green)                                                                                                                                                                 | Dark Green           | Fine         | Slow       | Very High | Slight                  | High                    | Moderate               | Low                    | Low                      | Very Good            | Moderate         | High           | Poor           |
| PinUp (ProSeeds)                                                                                                                                                                       | Dark Green           | Fine         | Slow       | Low       | Moderate                | High                    | Moderate               | Moderate               | Moderate                 | Good                 | -                | -              | Very Good      |
| Piranha (Mountain View)                                                                                                                                                                | Blue Green           | Very Fine    | Moderate   | Medium    | Moderate                | High                    | Very High              | Very High              | Moderate                 | Very Good            | Excellent        | -              | Excellent      |
| Piper (Mountain View)                                                                                                                                                                  | Medium Dark Green    | Very Fine    | Moderate   | Low       | None                    | Excellent               | Very High              | Very High              | Excellent                | Superior             | Excellent        | Very High      | Superior       |
| Oakley (Mountain View)                                                                                                                                                                 | Dark Green           | Very Fine    | Moderate   | Low       | Slight                  | Superior                | Superior               | Superior               | Very High                | Superior             | Excellent        | Excellent      | Excellent      |
| Proclamation (Lebanon)                                                                                                                                                                 | Dark Green           | Fine         | Rapid      | High      | Slight                  | Moderate                | Very High              | Moderate               | Good                     | Good                 | -                | -              | Poor           |
| Pure Distinction (Tee-2-Green/PureSeed)                                                                                                                                                | Light Green          | Very Fine    | Moderate   | Very High | Medium                  | Very High               | Low                    | High                   | Moderate                 | Excellent            | Low              | -              | Moderate       |
| Pure Eclipse (Tee-2-Green/PureSeed)                                                                                                                                                    | Dark Green           | Very Fine    | Slow       | High      | Medium                  | Moderate                | Very Low               | High                   | Moderate                 | Moderate             | -                | -              | Excellent      |
| Pure Select (Tee-2-Green/PureSeed)                                                                                                                                                     | Dark Green           | Very Fine    | Rapid      | High      | Slight                  | High                    | Low                    | Very High              | Moderate                 | Good                 | Superior         | -              | Moderate       |
| V8 (Barenbrug/Jacklin)                                                                                                                                                                 | Dark Green           | Very Fine    | Slow       | Medium    | Slight                  | Very High               | High                   | Low                    | Moderate                 | Very Good            | Very Good        | -              | Poor           |
| IMPROVED - Moderately High Density Greens/Tees/Fairways                                                                                                                                |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |
| Kingdom (Barenbrug)                                                                                                                                                                    | Dark Blue Green      | Fine         | Rapid      | Low       | Low                     | High                    | High                   | High                   | Excellent                | Very Good            | Very Good        | Excellent      | Moderate       |
| Nightlife (Barenbrug)                                                                                                                                                                  | Dark Blue Green      | Fine         | Rapid      | Low       | Low                     | High                    | High                   | High                   | Excellent                | Very Good            | Very Good        | Excellent      | Moderate       |
| Cobra 2 (Cobra Nova) (DLF)                                                                                                                                                             | Dark Blue Green      | Fine         | Rapid      | Low       | Low                     | High                    | High                   | High                   | Excellent                | Very Good            | Very Good        | Excellent      | Moderate       |
| SR 1150 (Seed Research)                                                                                                                                                                | Dark Bright Green    | Fine         | Very Rapid | Very Low  | Low                     | Very High               | Very High              | High                   | Good                     | Very Good            | Very Good        | High           | Moderate       |
| Crystal Blue Links (Tee-2-Green/PureSeed)                                                                                                                                              | Dark Blue Green      | Fine         | Rapid      | Medium    | Low                     | High                    | High                   | Moderate               | Good                     | Good                 | Very Good        | Moderate       | Poor           |
| S1 (Site One/LESCO)                                                                                                                                                                    | Dark Green           | Very Fine    | Moderate   | Low       | Slight                  | Very High               | Very High              | High                   | Excellent                | Excellent            | Very Good        | -              | Excellent      |
| Shark (Mountain View)                                                                                                                                                                  | Dark Blue Green      | Very Fine    | Rapid      | Medium    | Low                     | High                    | Low                    | Moderate               | Moderate                 | Excellent            | Very Good        | High           | Good           |
| T1 (Barenbrug/Jacklin)                                                                                                                                                                 | Very Dark Blue Green | Fine         | Rapid      | Very High | Low                     | High                    | Low                    | Moderate               | Very Low                 | Good                 | Good             | Very High      | Moderate       |
| Tour Pro (Semillas Fito)                                                                                                                                                               | Medium Green         | Very Fine    | Rapid      | High      | Moderate                | High                    | High                   | High                   | Good                     | Good                 | Very Good        | -              | Very Good      |
| ABOVE STANDARD - Moderate Density Tees/Fairways                                                                                                                                        |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |
| Kingpin (ProSeeds)                                                                                                                                                                     | Dark Blue Green      | Medium Fine  | Slow       | Low       | Slight                  | Moderate                | Moderate               | Very Low               | Moderate                 | Good                 | Good             | Moderate       | Poor           |
| Memorial (Landmark)                                                                                                                                                                    | Medium Green         | Medium       | Rapid      | Medium    | Slight                  | High                    | High                   | Moderate               | Very Low                 | Good                 | Very Good        | High           | Poor           |
| PC 2.0 (Tee-2-Green/PureSeed)                                                                                                                                                          | Medium Green         | Medium Fine  | Slow       | Low       | None                    | Low                     | Low                    | Very Low               | Low                      | Moderate             | -                | -              | Poor           |
| STANDARD - Low Density Tees/Fairways                                                                                                                                                   |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |
| Penncross (Tee 2 Green/Pure Seed)                                                                                                                                                      | Medium Green         | Coarse       | Very Rapid | Very Low  | Slight                  | Very Low                | Moderate               | Very Low               | Low                      | Very Low             | Good             | Moderate       | Poor           |
| Pennlinks II (Tee-2-Green/PureSeed)                                                                                                                                                    | Medium Green         | Medium       | Moderate   | Medium    | Moderate                | Moderate                | Moderate               | Low                    | Moderate                 | Very Low             | Low              | High           | Poor           |
| Trueline (TMI)                                                                                                                                                                         | Blue Green           | Medium       | Moderate   | Low       | Medium                  | Low                     | Low                    | Low                    | Very Low                 | Very Low             | Moderate         | -              | Poor           |
| BLENDING BENTGRASS - Match density, color, texture. Select other characteristics based on importance on NTEP data, additional trials, and observations by Dr. Leah Brilman and others. |                      |              |            |           |                         |                         |                        |                        |                          |                      |                  |                |                |