

## BENTGRASS CONVERSION WORKS

Bentgrass seedlings are very small and initially weak. Some varieties such as Tillinghast, Macdonald, Flagstick, MacKenzie or Cobra 2 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, Flagstick, Futura Pro, MacKenzie, Futura Greens or Cobra 2 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.



## BENTGRASS BLENDS & CULTIVARS

### TILLINGHAST CREEPING BENTGRASS

- High resistance to Poa annua invasion
- Early spring greenup
- High density without bentgrass bloat

### FLAGSTICK CREEPING BENTGRASS

- Superior disease resistance & turf quality
- High density and fine leaf texture
- Fast establishment

### FUTURA FAIRWAY BENTGRASS BLEND

- Summer stress tolerance
- Strong root growth in the summer
- Resists Brown Patch, Dollar Spot, Pink Snow & Pythium

### FUTURA GREENS BENTGRASS BLEND

- Top ranked performance
- Dollar Spot & Brown Patch resistant
- Excellent summer & close-mow tolerance

### FUTURA PRO BENTGRASS BLEND

- Ideal for greens
- Competitive against Poa annua
- High disease resistance

### FUTURA PRO EXTREME BENTGRASS BLEND

- Rapid germination
- Superior Dollar Spot resistance
- Competes against Poa annua

### MACDONALD CREEPING BENTGRASS

- Superior greens, tees & fairways
- Rapid establishment for interseeding
- Resistant to Poa annua invasion

### MACKENZIE CREEPING BENTGRASS

- Superior turf quality
- Lateral spread for recovery
- Excellent disease resistance



- High turf quality
- Excellent winter color & growth
- Great heat/humidity/disease tolerance & resistance



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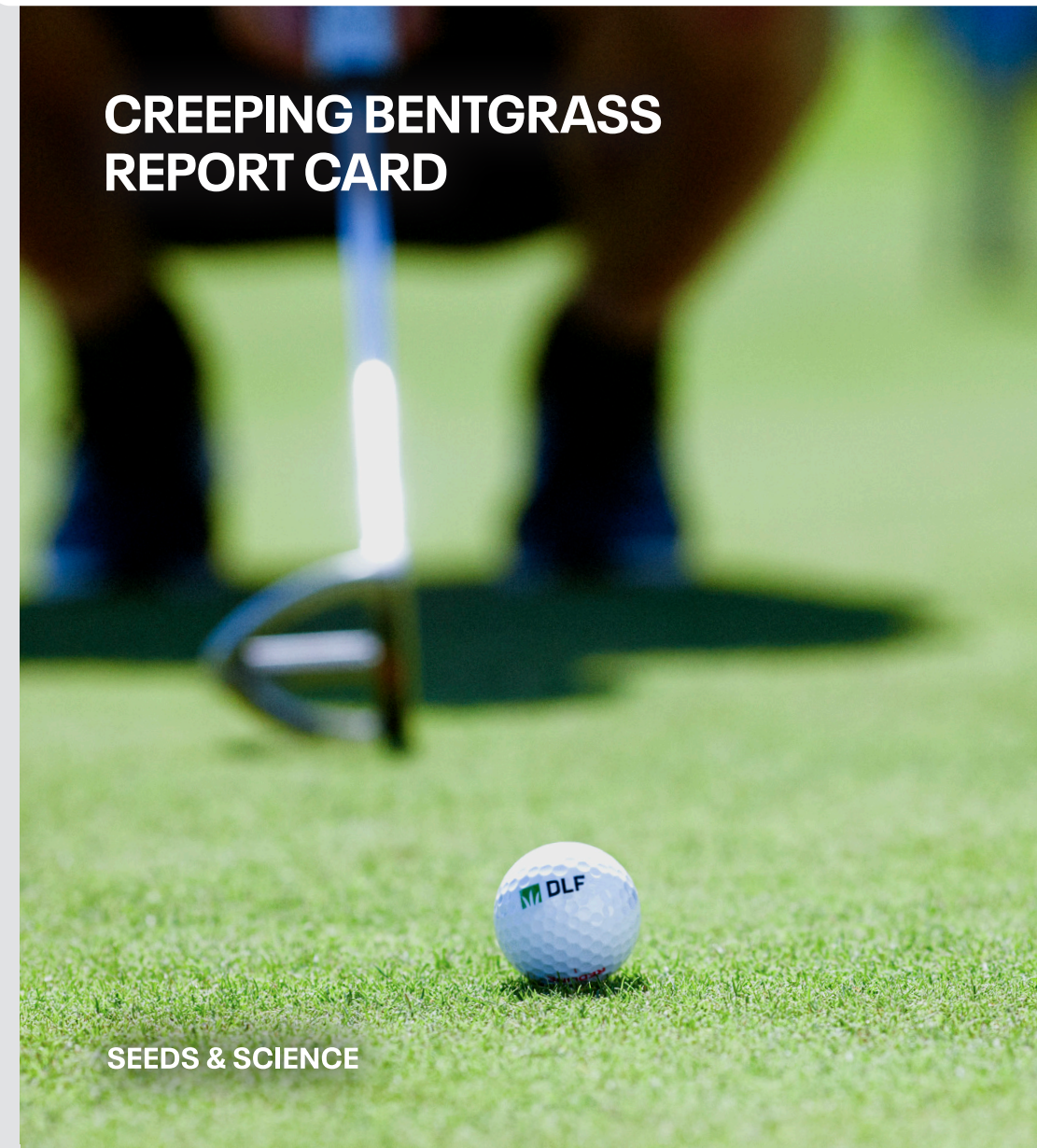


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## CREEPING BENTGRASS REPORT CARD



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
<b>SUPER BENTS™</b> - High Density, Low OM Greens/Tees/Fairways													
 <b>Tillinghast</b> (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
 <b>Macdonald</b> (DLF)	Dark Green	Very Fine	Very Rapid	Low	Slight	Superior	Very High	Very High	Superior	Superior	Excellent	-	Superior
 <b>Flagstick</b> (DLF/Seed Research)	Dark Green	Fine	Very Rapid	Very Low	None	Very High	Superior	Superior	Excellent	Excellent	Superior	-	Excellent
 <b>MacKenzie</b> (DLF/Seed Research)	Dark Bright Green	Very Fine	Rapid	Very Low	None	Very High	High	High	Excellent	Excellent	Very Good	High	Very Good
<b>HIGHER MAINTENANCE</b> - 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
<b>IMPROVED</b> - 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
<b>Cobra 2 (Cobra Nova)</b> (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
CrystalBlueLinks (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
<b>ABOVE STANDARD</b> - 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
<b>STANDARD</b> - 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
<b>BLENDING BENTGRASS</b> - Match density, color, texture. Select other characteristics based on importance on NTEP data, additional trials, and observations by Dr. Leah Brilman and others.													