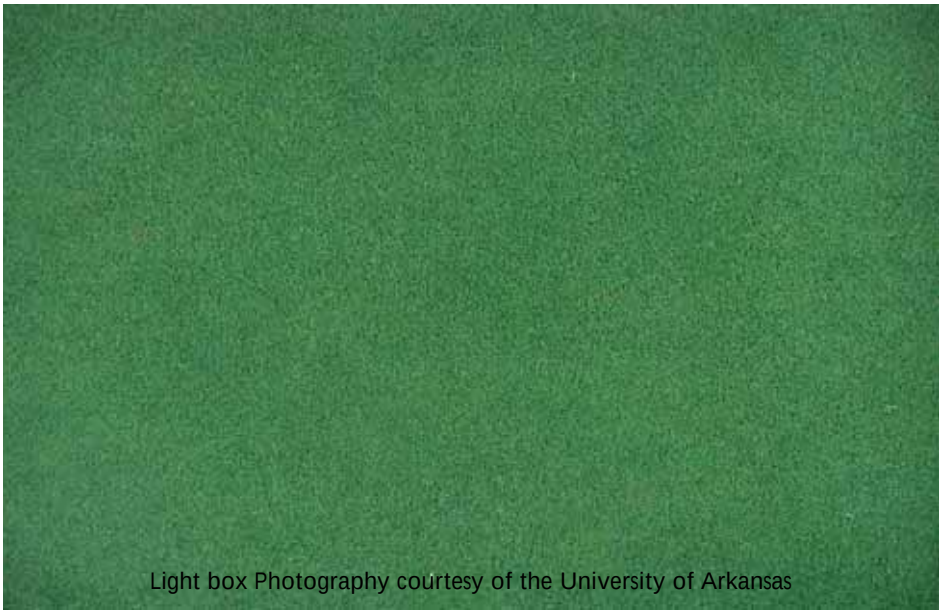
PENNINGTON SEED
Professional Turfgrass

Growing a better tomorrow, today…

13M
Creeping Bentgrass

Agrostis stolonifera

13M is the top rated creeping bentgrass in resistance to the number 1 fungus effecting manicured turfgrass, Dollar Spot. This high density, fine leaf textured bentgrass provides outstanding year-round stand of turfgrass that is less prone to scalping which are features that turf managers seek everyday when planting bentgrass. **13M** readily accepts topdressing to control the thatch mat buildup without extensive preparation i.e. verticutting or spiking. **13M** solves many of the dilemmas that plaque so many decision-making processes at quality golf courses and playing courts.



Light box Photography courtesy of the University of Arkansas

Mean Turfgrass Ratings of Creeping Bentgrass Cultivars Grown on a Fairway or Tee at 4 Locations in the Transition Region

Table 2B 2006 Data

Turfgrass Quality Ratings 1-9; 9=Ideal Turf

Cultivar	KS1	KY1	OK1	VA1	Mean
13M	5.7	7.2	7.1	7.1	6.8
L-93	5.7	7.0	7.0	6.8	6.6
PennLinks II	5.9	6.7	6.0	6.7	6.3
Shark (23R)	4.9	6.4	6.0	7.0	6.1
Declaration	4.9	6.6	6.2	5.9	5.9
Seaside	4.2	4.4	5.3	6.6	5.1
LSD Value	0.8	0.6	1.0	1.7	0.6

These examples represent a few of the varieties tested in the NTEP 2003 National Bentgrass – Fairway/Tee Report, 2006 Data
For complete trial data, go to www.ntep.org

TYPE:

Premium Creeping Bentgrass

FEATURES:

- Superb Attributes for Golf Course Putting Green and Croquet Court
- Excellent Quality for Golf Course Fairways and Tees
- Top Rated Dollar Spot resistance
- Provides Outstanding year round density
- Exceptional fine leaf texture
- Less prone to scalping
- All this to provide a superlative playing surface

BENEFITS:

- The disease resistance of 13M allows turf managers to realize a savings in fungicide applications including the chemical and labor cost
- The versatility of 13M permits a turf manager to utilize this creeping bentgrass in a multitude of applications
- The fine leaf texture and year round density is what every turf manager seeks in a turfgrass
- Less scalping is due to a smaller amount of thatch buildup

RECOMMENDED USE:

- Golf Course Greens
- Golf Course Tees
- Golf Course Fairways
- Tennis and Croquet Courts
- Bowling Tops

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13M CREEPING BENTGRASS

Agrostis stolonifera

Mean Turfgrass Ratings of Creeping Bentgrass Cultivars Grown on a Fairway or Tee at 5 Locations in the Northeast Region

Table 1B 2006 Data

Turfgrass Quality Ratings 1-9; 9 = Ideal Turf

Cultivar	MA1	NJ1	NY1	PA1	QE1	Mean
Shark (23R)	4.3	6.5	7.3	7.1	5.3	6.1
13M	4.9	6.3	6.6	6.8	5.3	6.0
Declaration	4.7	5.5	6.5	7.1	5.3	5.8
L-93	4.8	5.3	6.8	5.6	5.4	5.6
PennLinks II	4.7	4.7	7.2	5.1	5.7	5.5
Seaside	4.0	1.2	6.9	2.5	4.3	3.8
LSD Value	0.6	0.8	0.4	0.8	0.3	0.3

Leaf Texture Ratings of Creeping Bentgrass Cultivars Grown on a Fairway or Tee

Table 11B 2006 Data

Leaf Texture Ratings 1-9; 9 = Very Fine

Cultivar	CA7	IA1	MI1	QE1	Mean
Shark (23R)	8.3	7.0	7.0	7.0	7.3
13M	8.0	7.3	6.7	6.7	7.2
Independence	8.0	6.3	6.3	6.7	6.8
Declaration	7.7	6.3	6.3	6.3	6.7
PennLinks II	7.7	5.7	3.7	6.3	5.8
Seaside	6.7	5.7	2.7	6.7	5.4
LSD Value	0.6	1.5	1.5	0.8	0.6

Fall Density Ratings of Creeping Bentgrass Cultivars Grown on a Fairway or Tee

Table 14B 2006 Data

Density Ratings 1-9; 9 = Maximum Density

Cultivar	CA7	MI1	MN1	ND1	NE1	NJ1	QE1	VA1	Mean
Authority	9.0	7.3	6.7	4.3	7.7	8.0	7.7	8.0	7.3
13M	8.3	7.0	6.3	4.7	9.0	7.3	7.0	8.0	7.2
L-93	8.7	6.3	6.7	5.0	8.7	5.0	7.0	7.0	6.8
PennEagle II	8.7	6.0	5.7	4.0	8.0	6.7	7.7	7.7	6.8
PennLinks II	8.7	3.7	4.0	4.0	8.3	4.0	7.0	7.7	5.9
Seaside	7.3	3.0	1.0	5.0	7.3	1.0	5.0	6.3	4.5
LSD Value	0.8	1.7	1.2	1.3	1.3	0.9	0.6	1.0	0.4

These examples represent a few of the varieties tested in the NTEP 2003 National Bentgrass – Fairway/Tee Report, 2006 Data
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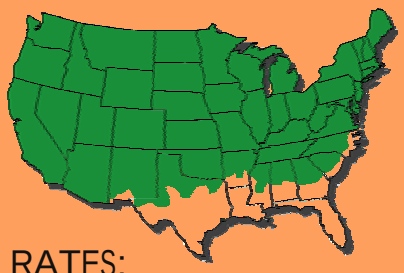
OPTIMAL ADAPTATION AREAS:

Climatic Zones: 2, 3, 4, 5, 6, 7, 8, 9, 10 (may not be adaptable to all areas within each climatic zone)



SEEDING RATES:

New Construction (bare ground)
1-1 1/2/lb/1000 sq ft (1/2–3/4 kg/100 m²)

Overseeding (existing greens)
1/2- 1 lb/1000 sq ft (1/4 - 1/2 kg/100 m²)

Winter Overseeding (Bermuda greens)
1 lb/1000 sq ft (1/2-kg/100 sq m²)

ESTABLISHMENT:

Sow seed with a filler in three directions on a well saturated seed bed. After seeding, lightly rake in two directions and roll to assure a firm seed bed. Seed will germinate best when soil temperature is above 65° F (18° C). Irrigate frequently and lightly until seedlings are established. Avoid excess watering or puddling.

MAINTENANCE:

First cutting for greens should be 0.225 to 0.25 inch (6.0 to 6.4 mm) in approximately 30 days; 0.1875 inch (4.8 mm) in 60 days; 0.125 inch (3.2 mm) in 90 days. Maintain at approximately 0.125 inch (3.2 mm). Applying sand topdressing is best to prevent layering during the grow in phase. The playing surface can be ready for play in 90 days or may be longer dependent on weather.

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