

Penn A-1

Creeping Bentgrass (*Agrostis palustris*)

Penn A-1 performs well under a wide range of climatic conditions. It spreads by stolons and tillers and exhibits very dense, upright growth. Penn A-1 has very fine leaf texture due to the dense tillering, and it exhibits moderately aggressive growth and excellent recuperative capacity

Performance Characteristics / Adaptations:

- Widely adapted for use across cool, temperate regions and throughout transition zones of North America, Europe and Asia
- Superior overall quality performance across the United States
- Greater disease tolerance, especially to dollar spot and brown patch
- Superior cold tolerance
- Excellent heat tolerance; maintains growth during warm summer months
- Deep, green color
- Good spring green-up and holds color late into fall
- Performs well in full sun to moderate shade
- Provides a grainless putting green surface even at mowing heights less than or equal to 0.16"
- Tolerates heavy traffic and wear; not prone to tufting, spiking or thinning

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- *Golf course greens / tees / fairways*
 - *Lawn bowling and croquet courts*
 - *Tennis courts*

Establishment:

- Recommended seeding rate of 1.0–1.5 lbs / 1,000 sq ft (5–8 g/m²)
- Would recommend Apron treated seed for summer seeding or an application of a granular pythium control be applied at the time of seeding
- Seed will germinate best when soil temperature is above 65° F (18°C)
- Irrigate lightly and frequently until seedlings are established; avoid excess watering, or puddling, to prevent “washing”/collecting in low areas
- First mowing can take place in about 14 days or when seedlings reach a height of 0.375" (6.5 mm)
- First cutting should be at 0.25" (6.4 mm), then 0.1875" inch (4.8 mm) at 21 days and then gradually reduced to 0.125" (3.2 mm) as the green reaches maturity (30–45 days)
- A preventative fungicide program is recommended during establishment to prevent disease damage to lush young seedlings

Maintenance:

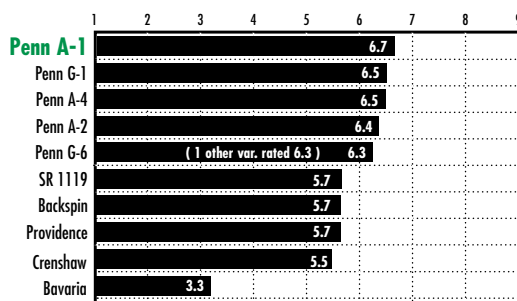
- Germinates in 5–8 days
- Withstands pH range of 5.5–8.0; prefers well drained soils
- Keep fertilizer applications light and frequent throughout growing season
- Once established, fungicides should be applied as needed; applications for pythium, dollar spot, brown patch, and snow mold may be necessary
- The use of 0.25" (6.4mm) tines is recommended for aeration
- Frequent, light topdressing with brushing and grooming will sustain a high quality putting surface
- Check irrigation water and soil pH for salinity levels as well as nutrient imbalances
- Consistent performance with different soil types such as native soils, California and USGA sand greens

Interseeding/Overseeding:

- Interseed Penn A-1 seed into an existing green to convert the putting surface to the newer variety over a period of time; greens remain in play during the conversion
- For best results; interseed light & frequently after aeration and/or verticutting at 0.1 to 0.25 lb / 1,000 sq ft (45 to 115 g/m²)
- A light application of a growth regulator will enhance the conversion by suppressing the growth of the existing plant material
- Greens may be forced into dormancy with chemicals, grooming and close mowing
- Winter overseeding of bermudagrass greens: 1 lb / 1,000 sq ft (50 kg/ha)

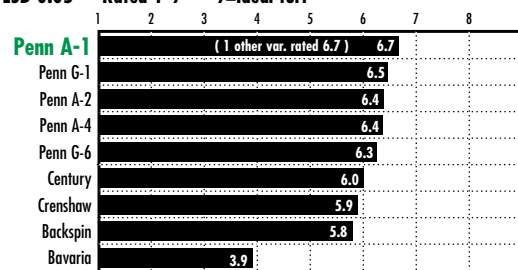
*Note: Optimum seeding dates for new construction generally is between August 1–September 15. For each day that seeding is delayed beyond the 25th of September, one week’s growing time may be lost in northern temperate regions.

Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Sand Green at Eleven Locations in the U.S., 2001 data
LSD 0.05 Rated 1-9 9=Ideal turf



Green = Scotts Professional Seed Varieties
Selected varieties including highest and lowest. Log on to ntep.org for additional trial data.

Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Green at Eleven Locations Using 2.0–4.0 lbs of Nitrogen / 1000 sq ft/year, 2001 data
LSD 0.05 Rated 1-9 9=Ideal turf



Green = Scotts Professional Seed Varieties
Selected varieties including highest and lowest. Log on to ntep.org for additional trial data.

