SEED RESEARCH OF OREGON

*The germination of ideas*

# TYEE

## CREEPING BENTGRASS

### FEATURES

- Highly competitive against Poa annua
- Extra density in all seasons
- High wear tolerance — every season
- Heat tolerance
- Winter active growth
- Bright, dark true green color
- Dollar Spot and Brown Patch resistance
- Uses: Ideal for greens and tees

### BENEFITS

- Superior putting greens
- Less weed invasion
- Less syringing
- Reduced fungicides
- Reduced ballmarks
- Golfer satisfaction
- High stress tolerance

### SEEDING RATE

- Seeds/lb: 6,000,000
- New turf:
  1–1.5 lbs/1,000 sq ft
  45–65 lbs/acre
  5–7.5 gr/m²
  50–75 kgs/hectare
- Overseeding/Interseeding:
  2–3 lbs/1,000 sq ft
  90–135 lbs/acre
  10–15 gr/m²
  100–150 kgs/hectare

### ESTABLISHMENT

- Germination: 3–5 days (6–10 in cooler weather)
- First mowing: approximately 21 days, depending on usage
- First limited use: approximately 6–8 weeks depending on conditions

**Tyee** means superior or leader in the language of the Pacific Northwest Indians and Tyee is the new creeping bentgrass leader in performance on greens. Tyee creeping bentgrass is derived from plants that survived the test of time to thrive under heat and stress just as Tyee salmon are the biggest strongest salmon withstanding the test of time.

Seed Research of Oregon listened to the needs of golf course superintendents throughout the world in developing Tyee with extra density and extra performance in both summer and winter. No matter what your heavy season is, Tyee will withstand the pressure and keep growing and performing. The extra density helps keep Poa annua away. The original plants used in the development of Tyee came from old, high stress, low maintenance golf courses. Because the progeny of these plants continued to show high performance in trials with heavy summer pressure and little air movement, Seed Research worked with Rutgers University to develop Tyee from these superior genetics.

Tyee possesses a bright, dark true-green color, not a blue green like many of the new creeping bentgrasses. It maintains this color through the heat of summer and into winter. This color is uniform and provides an appealing contrast with other grasses in the fairway.

Tyee has shown superior Brown Patch and Dollar Spot resistance. It has also demonstrated excellent resistance to Copper Spot and Pythium Root Rot and high resistance to Pink Snow Mold.

Tyee, like many high density bentgrasses used for greens (Penn A-4, Shark, Penn A-1, Declaration, Kingpin and T-1) requires more extensive management for thatch control, including top-dressing and verticutting. The rewards from using Tyee are a superior putting surface, reduced syringing, less herbicides, and reduced thatch production when compared to other high density bentgrasses.

Seed Research of Oregon 800-253-5766 541-758-5305(fax) www.sroseed.com

TYEE
CREEPING BENTGRASS

## 2003 NTEP – Putting Green Data
## Quality Ratings of Creeping Bentgrass Grown on a Sand Green at 12 Locations
## 2004 Data

*Turfgrass Quality Ratings: 1-9; 9=Ideal Turf*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **6.3** | Shark | 6.1 | Benchmark DSR | 5.7 | Penncross | 5.1 |
| Penn A-1 | 6.1 | Declaration | 6.1 | Kingppin | 5.7 | *LSD @ 5%* | *0.2* |
| T-1 | 6.1 | **007** | **6.0** | Pennlink II | 5.6 | | |

## 2003 NTEP – Putting Green Data
## Winter Color Ratings of Creeping Bentgrass Cultivars Grown on a Green
## 2004 Data

*Winter Color Ratings: 1-9; 9=Complete Color Retention*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **6.3** | Kingppin | 5.9 | Shark | 5.5 | Alpha | 5.3 |
| **007** | **6.1** | Penn A-1 | 5.8 | T-1 | 5.5 | Penncross | 5.1 |
| Declaration | 5.9 | Benchmark DSR | 5.6 | Pennlink II | 5.5 | *LSD @ 5%* | *0.2* |

## 2003 NTEP – Putting Green Data
## Fall Density Ratings of Creeping Bentgrass Cultivars Grown on a Green. Mean of 10 Locations
## 2004 Data

*Winter Color Ratings 1-9; 9=Complete Color Retentioin*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **7.8** | **007** | **7.2** | Benchmark DSR | 6.8 | Penncross | 5.7 |
| Penn A-1 | 7.4 | Declaration | 7.1 | Kingpin | 6.8 | *LSD @ 5%* | *0.4* |
| T-1 | 7.3 | Memorial | 7.0 | Pennlinks II | 6.2 | | |

## 2003 NTEP – Putting Green Data
## Leaf Texture Ratings of Creeping Bentgrass Cultivars Grown on a Green. Mean of 11 Locations
## 2004 Data

*Leaf Texture Ratings: 1–9; 9=Very Fine*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **7.3** | Shark | 6.7 | Benchmark DSR | 6.4 | Pennlinks II | 5.7 |
| **007** | **6.8** | T-1 | 6.7 | Kingpin | 6.3 | Penncross | 5.3 |
| Declaration | 6.7 | Penn A-1 | 6.5 | Memorial | 6.1 | *LSD @ 5%* | *0.3* |

## 2003 NTEP – Putting Green Data
## Genetic Color Ratings of Creeping Bengrass Cultivars Grown on a Green
## 2004 Data

*Turfgrass Quality Ratings: 1–9; 9=Ideal Turf*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| T-1 | 7.2 | **007** | **6.5** | Penn A-1 | 6.4 | Memorial | 6.0 |
| **Tyee** | **6.7** | Kingpin | 6.5 | Shark | 6.2 | Penncross | 5.6 |
| Benchmark DSR | 6.6 | Declaration | 6.4 | Pennlinks II | 6.1 | *LSD @ 5%* | *0.2* |

*To determine whether a cultivar's performance is different from another, subtract one entry's mean from another entry's mean. If this value is larger than the LSD value, the observed difference in cultivar performance is significant and did not happen by chance. Complete tables are available upon request.*

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## 2003 NTEP – Putting Green Data
## Brown Patch Ratings of Creeping Bentgrass Cultivars Grown on a Green
## 2004 Data

*Brown Patch Ratings: 1-9; 9=No Disease*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **7.8** | Declaration | 7.3 | T-1 | 6.9 | Memorial | 6.6 |
| Shark | 7.6 | Penn A-1 | 7.1 | Benchmark DSR | 6.8 | Penncross | 5.4 |
| **007** | **7.5** | Kingpin | 7.0 | Pennlinks II | 6.8 | *LSD @ 5%* | *0.9* |

## 2003 NTEP – Putting Green Data
## Spring Density Ratings of Creeping Bentgrass Cultivars Grown on a Green. Mean of Four Locations
## 2004 Data

*Density Ratings: 1-9; 9=Maximum Density*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **7.3** | Memorial | 7.0 | **007** | **6.8** | Pennlinks II | 6.7 |
| Declaration | 7.3 | Penn A-1 | 6.9 | Shark | 6.8 | Penncross | 6.6 |
| T-1 | 7.2 | Benchmark DSR | 6.9 | Kingpin | 6.8 | *LSD @ 5%* | *0.5* |

## 2003 NTEP – Putting Green Data
## Copper Spot Ratings of Creeping Bentgrass Cultivars Grown on a Green
## 2004 Data

*Copper Spot Ratings 1-9; 9=No Disease*

| *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* | *Cultivar* | *Quality* |
|---|---|---|---|---|---|---|---|
| **Tyee** | **7.3** | Declaration | 5.7 | Memorial | 5.0 | Benchmark DSR | 3.7 |
| Penn A-1 | 6.3 | Pennlinks II | 5.7 | Shark | 4.7 | Alpha | 3.7 |
| **007** | **6.0** | Kingpin | 5.3 | T-1 | 4.7 | Penncross | 3.7 |
| | | | | | | *LSD @ 5%* | *0.3* |

*To determine whether a cultivar's performance is different from another, subtract one entry's mean from another entry's mean. If this value is larger than the LSD value, the observed difference in cultivar performance is significant and did not happen by chance. Complete tables are available upon request.*