

## Features

- High turf quality: greens, tees and fairways
- Stress tolerant germplasm
- High density: all seasons
- Bright medium green color
- Fine leaf texture
- Reduced fertilizer requirement
- Winter-active growth
- High resistance to Dollar Spot, Brown Patch and Fusarium Patch

## Benefits

- Excellent performance: Year around
- Uniform putting surface
- Excellent wear tolerance
- Excellent summer performance
- Reduced fungicide requirements
- Reduced ball marks

## Seeding Rates

- New turf: 1 to 1.5 pounds per 1,000 sq. ft. or 45 to 65 pounds per acre (5 to 7.5 grams per square meter or 50 to 75 kilograms per hectare)
- Overseeding/Interseeding: 2 to 3 pounds per 1,000 sq. ft. or 90 to 135 pounds per acre (10 to 15 grams per square meter or 100 to 150 kilograms per hectare)
- Seeds per pound: Approximately 6,000,000

Alistair Mackenzie golf designs are recognized as classics that demand performance for nearly every shot. **Mackenzie (SRX 1GPD)** creeping bentgrass was developed in line with the demands faced by the modern superintendent who has to blend the classical aspects of the game with the contemporary surface. Whatever



a golf course demands for bentgrass performance, **Mackenzie** will deliver a superior bentgrass green, fairway, or tee. **Mackenzie's** broad genetic base provides performance insurance regardless of the environment or the maintenance regime. **Mackenzie** is the result of years of experience in breeding superior bentgrasses that meet the needs of superintendents for a superior surface, in balance with standard maintenance practices. Only a bentgrass that forms the highest quality greens, tees and fairways deserves to be named for the master and **Mackenzie** is that bentgrass.

## History

**Mackenzie** was developed from bentgrass clones selected from high stress environments. In turf trials under reduced fertility, low air movement, reduced fungicides and heat stress the progeny from three clones stood out. These progeny were then placed as spaced plants and the plants that demonstrated aggressive lateral spread, with high density were moved from the block and formed the basis for **Mackenzie**.

## Turf Quality

**Mackenzie** has the density required for low heights of cut on greens, especially at the reduced fertility often utilized, with the more aggressive lateral growth needed for fairways. **Mackenzie** will withstand wear in all seasons with excellent ball mark recovery. It has high resistance to dollar spot, brown patch and Fusarium patch. **Mackenzie** has high summer performance and a winter-active growth so it is a superior choice no matter where your course is or the time of year of your heaviest play.

## Establishment

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

Distributor:



**2003 NTEP — Putting Green**  
**Leaf Texture Rating of Creeping Bentgrass Cultivars Grown on a Green**  
**2004 Data. Mean of Eleven Locations**

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

Cultivars	Mean					LSD Value	
Shark		6.7	Kingpin	6.3		1.4	
<b>Tyee (SRX 1GD)</b>	<b>7.1</b>	T-1	6.7	Memorial	6.1		
<b>Mackenzie (SRX 1GPD)</b>	<b>7.0</b>	Penn A-1	6.5	Pennlinks II	5.7		
Declaration	6.7	Benchmark DSR	6.4	Penncross	5.3		

**2003 NTEP Trial**  
**Density Of Creeping Bentgrass Cultivars in Greens Trials**  
**2004 Data**

*Turfgrass Density Ratings 1-9; 9=Highest Density*

Cultivar	Spring Density	Summer Density	Fall Density	Cultivar	Spring Density	Summer Density	Fall Density
<b>Tyee</b>	<b>7.3</b>	<b>7.3</b>	<b>7.8</b>	Memorial	7.0	6.7	7.0
<b>Mackenzie</b>	<b>6.6</b>	<b>7.2</b>	<b>7.7</b>	Alpha	6.8	6.8	6.8
Shark	6.8	7.4	7.6	Benchmark DSR	6.9	6.8	6.8
Penn A-1	6.9	7.3	7.4	Kingpin	6.8	6.9	6.7
T-1	7.2	7.1	7.3	Pennlinks II	6.7	6.3	6.2
007	6.8	7.3	7.2	Penncross	6.6	5.4	5.7
Declaration	7.3	7.3	7.1	LSD @ 5%	0.5	0.3	0.4

**Performance of Creeping Bentgrass Cultivars in Greens Trial — Seeded 2003 at Rutgers University, NJ**  
**2003 and 2004 Data**

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

Cultivar	2003-04 Avg. Quality	2003 Avg. Quality	2004 Avg. Quality	Cultivar	2003-04 Avg. Quality	2003 Avg. Quality	2004 Avg. Quality
<b>007 (DSB)</b>	<b>7.0</b>	<b>7.0</b>	<b>7.0</b>	<b>Sandhill</b>	<b>4.8</b>	<b>5.4</b>	<b>4.2</b>
Declaration	6.4	6.8	5.9	Pennlinks II	4.8	5.6	4.1
<b>Mackenzie</b>	<b>6.2</b>	<b>6.0</b>	<b>6.4</b>	Penneagle	4.5	4.8	4.2
<b>Tyee (SRX 1GD)</b>	<b>6.2</b>	<b>5.6</b>	<b>6.7</b>	Penn A-4	4.3	4.7	4.0
Benchmark	5.9	6.3	5.6	L-93	3.9	4.5	3.5
Kingpin	5.5	5.6	5.4	Pennlinks	3.6	4.0	3.2
Penn A-1	5.3	5.7	4.9	Penncross	3.5	4.1	2.9
Penn G-1	5.1	5.2	5.1	Trueline	3.2	4.1	2.3
Penn A-4	4.9	4.9	4.8	LSD @ 5%	0.6	0.7	0.8

*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.*