

*The next generation is here and it is called Independence.*



## **Independence Creeping Bentgrass** is

a cutting edge creeping bentgrass developed by LebanonTurf. It ranks with the new elite bentgrasses and delivers higher overall turf quality than the old standards.

Independence tied for #3 for overall turf quality in the 2004 NTEP Greens Height trial (25 locations)

Independence is an upright, aggressive, medium dense variety that establishes quickly, is highly resistant to *Poa annua* invasion, and will recover quickly from ball marks and divots. Its mowing height flexibility allows use on fairways, tees, and greens. Independence develops a dense, fine textured turf without developing excessive thatch. Its medium density also allows easier topdressing than other more dense varieties.

Independence will be the ultimate choice for new construction or reconstruction projects.

## **Independence Creeping Bentgrass**

- *Improved overall disease resistance*
- *Excellent seedling vigor, fast establishment*
- *Excellent resistance to *Poa annua* invasion*
- *Improved mowing qualities*
- *Medium dark green color*
- *Upright, aggressive growth habit*
- *Excellent for fairways, greens, and tees*
- *The new choice for today's turf manager to meet high expectations with current maintenance practices*

### **Establishment**

- New Seeding rate: 1.0 lb./1000 sq. ft.
- Interseeding rate: 0.25 - 0.5 lb./1000 sq. ft.

### **Mowing heights**

- 0.1 to 0.15 in heights on greens
- Ideal for fairways or tees at higher levels





# INDEPENDENCE

GREENING BENTGRASS

## 2003 NTEP Fairway trial 23 locations

- Tied for #1 overall for Pythium Blight ratings
- Top rated for resistance to Poa annua invasion
- Tied for #3 overall for Brown Patch ratings
- Tied for #3 for spring density
- Very good fall density ratings

## 2003 NTEP Greens Height trial 25 locations

- Tied for # 3 for overall turf quality
- Tied for #4 overall for Brown Patch ratings
- Excellent fall color rating
- Tied for #3 overall for summer density
- Very good spring green up
- Medium fine leaf texture

Mean Turfgrass Quality ratings of Bentgrass Cultivars Grown on a Green at 10 locations using a 1/8” or lower mowing height

### 2005 NTEP data - Table 3A

Turfgrass quality ratings 1-9  
9 = ideal turf

Declaration	6.8
Authority	6.7
Mackenzie	6.7
Tyee	6.6
CY-2	6.6
Shark	6.6
Penn A-1	6.5
007	6.5
<b>Independence</b>	<b>6.4</b>
Kingpin	6.4
Memorial	6.4
T-1	6.3
LS-44	6.3
13-M	6.2
Benchmark DSR	6.2
IS-Ap 9	6.1
Bengal	6.1
Alpha	6.0
Villa (Velvet)	5.8
<b>Legendary (Velvet)</b>	<b>5.7</b>
Venus (Velvet)	5.7
Greenwich (Velvet)	5.5
Pennlinks II	5.5
SR 7200 (Velvet)	5.3
Vesper (Velvet)	5.3
Penncross	5.0

**LSD Value**

**0.3**

# NTEP Greens Trial

(Shaded areas represent Velvet Bentgrass)

Brown Patch ratings of bentgrass cultivars grown on a Green.

### 2005 NTEP data – Table 20A

Brown Patch ratings 1-9  
9 = no disease

Greenwich (velvet)	9.0
<b>Legendary (velvet)</b>	<b>9.0</b>
Mackenzie	9.0
SR 7200 (velvet)	9.0
Tyee	9.0
Venus (velvet)	9.0
Vesper (velvet)	9.0
Ville (velvet)	9.0
14-M	8.7
T-1	8.7
Memorial	8.3
007	8.0
<b>Declaration</b>	<b>8.0</b>
<b>Independence</b>	<b>8.0</b>
LS-44	8.0
Alpha	7.7
CY-2	7.7
IS-AP 9	7.7
Shark	7.7
Benchmark DSR	7.3
Penn A-1	7.3
Penncross	7.3
Kingpin	7.0
Authority	6.3
Bengal	6.0
Pennlinks II	4.7

**LSD Value**

**1.5**

Summary of Turfgrass Quality Ratings for Bentgrass cultivars in the 2003 National bentgrass. (putting green) test

2005 NTEP data – Appendix table  
Turfgrass quality ratings 1-9  
9 = ideal turf

Declaration	6.6
CY-2	6.6
Authority	6.6
007 (DSB)	6.5
Mackenzie	6.5
Shark	6.5
Tyee	6.4
T-1	6.4
IS-AP 9	6.4
Memorial	6.4
<b>Independence</b>	<b>6.4</b>
LS-44	6.4
Penn A-1	6.3
Benchmark DSR	6.3
Kingpin	6.3
Alpha	6.2
13-M	6.2
Bengal	6.2
Pennlinks II	5.7
<b>Legendary (velvet)</b>	<b>5.4</b>
Villa (velvet)	5.4
Greenwich (velvet)	5.3
Venus (velvet)	5.3
Penncross	5.2
Vesper (velvet)	5.1
SR 7200 (velvet)	5.1

**LSD Value**

**0.2**



**DECLARATION**  
CREEPING BENTGRASS  
*For Fairways, greens, & tees*



## *Declaration Creeping Bentgrass The New Standard!*

**Declaration Creeping bentgrass** is a new, cutting edge creeping bentgrass developed by LebanonTurf. Declaration exhibits top rated overall turf quality and dollar spot resistance. In the 2004-2007 Final NTEP Greens trial, Declaration tied for #1 overall for turf quality, and ranked #1 for dollar spot resistance.

Reducing dollar spot through genetics could have a tremendous impact on how superintendents manage their turf, with potentially large savings for maintenance and reduced environmental concerns. In an article in the June 2004

TurfNet monthly, Dr. William Meyer from Rutgers talks about how important breeding for disease resistance is in bentgrass, and says "over 70% of the fungicides used on golf courses goes to control dollar spot on bentgrass. That's big money, and a huge incentive to breed for improved dollar spot resistance." Dr. Stacy Bonos – bentgrass breeder from Rutgers also states "compared to traditional varieties that require fungicide treatments every 7-10 days during peak (dollar spot) pressure, Declaration would require only one or two sprays per year to remain acceptably clean"

### **Establishment**

- New Seeding Rate: 1.0 lb./1000sq. ft
- Interseeding Rate: 0.25-0.5 lb./1000 sq. ft.

### **Mowing Heights**

- 0.1 to 0.15 in. height on greens
- Ideal for fairways or tees at higher levels

### **Declaration Creeping bentgrass**

- *Top ranked for overall turf quality*
- *Top ranked for dollar spot resistance*
- *Top ranked for mowing quality*
- *Top ranked for summer density*
- *Excellent resistance to Brown patch*
- *Top ranked for fine leaf texture*
- *Ideal for fairways, greens, and tees*







### 2003 NTEP Greens Height trial - 25 locations

- Tied for #1 for overall turf quality
- Excellent under reduced fungicides
- #1 overall at 1/8 in. or lower mowing height
- Top rated for fall color
- #1 for Dollar Spot
- Ranked #4 overall for Spring greenup

### 2003 NTEP Fairway trial - 23 locations

- #2 for dollar spot
- Tied for #1 for mowing quality
- Ranked #1 for summer density
- Medium fine leaf texture
- Excellent resistance to Brown Patch
- Excellent spring density
- Very good resistance to Poa annua invasion

## NTEP Greens Trial 2004-2007 Final Data

Summary of Turfgrass Quality Ratings for Bentgrass cultivars in the 2003 National bentgrass (putting green) trial.

### Appendix table

Turfgrass quality ratings 1-9  
9 = ideal turf

Shark	6.4
<b>Declaration</b>	<b>6.4</b>
007 (DSB)	6.4
Tyce	6.4
CY-2	6.4
Authority	6.4
Memorial	6.3
Mackenzie	6.3
LS-44	6.3
Cobra 2	6.2
13-M	6.2
<b>Independence</b>	<b>6.2</b>
Penn A-1	6.1
Benchmark DSR	6.1
T-1	6.1
Kingpin	6.1
Alpha	6.0
Bengal	6.0
Pennlinks II	5.6
Villa (Velvet)	5.3
<b>Legendary (Velvet)</b>	<b>5.2</b>
Greenwich (Velvet)	5.2
Venus (Velvet)	5.0
Penncross	5.1
Vesper (Velvet)	5.0
SR 7200 (Velvet)	4.9
<b>LSD Value</b>	<b>0.2</b>

## NTEP Greens Trial 2004-2007 Final Data

Summary of Turfgrass Quality Ratings for Bentgrass cultivars in the 2003 National bentgrass (putting green) trial.

### Table 22A

Dollar Spot Rating 1-9  
9 = no disease

<b>Declaration</b>	<b>8.1</b>
Memorial	7.9
Villa (Velvet)	7.7
Benchmark OSR	7.6
SR 7200 (Velvet)	7.6
13-M	7.5
<b>Legendary (Velvet)</b>	<b>7.4</b>
Greenwich (Velvet)	7.4
Venus (Velvet)	7.4
Kingpin	7.3
CY-2	7.3
Pennlinks II	7.2
Vesper (Velvet)	7.1
Cobra 2	6.9
007	6.9
Penn A-1	6.9
Penncross	6.5
Authority	6.4
Mackenzie	6.3
LS-44	6.2
Tyce	5.5
Alpha	5.4
Shark	5.3
T-1	5.0
Bengal	4.9
Independence	4.2
<b>LSD Value</b>	<b>0.9</b>

## NTEP Fairway Trial 2004-2007 Final Data

Summary of Turfgrass Quality Ratings for Bentgrass cultivars grown on a fairway or tee.

### Appendix table

Turfgrass quality ratings 1-9  
9 = ideal turf

Crystal BlueLinks	6.5
13-M	6.4
T-1	6.4
LS-44	6.4
Penneagle II	6.3
Kingpin	6.3
Shark	6.3
<b>Declaration</b>	<b>6.2</b>
Authority	6.2
Alpha	6.2
L-93	6.2
Mackenzie	6.1
SR 1150	6.1
Pennlinks II	6.0
SR 1119	6.0
Bengal	6.0
<b>Independence</b>	<b>6.0</b>
Princeville	5.7
Penncross	5.5
Tiger II (Colonial)	5.4
Bardot (Colonial)	5.4
SR 7150 (Colonial)	5.3
Seaside	4.4
<b>LSD value</b>	<b>0.2</b>

(selected varieties including highest and lowest)