

The Next generation is here and it is called Independence.

Breeding History and Development

Independence Creeping Bentgrass is a completely new, cutting edge creeping bentgrass developed by LebanonTurf. Independence was bred for improved overall turf quality and disease resistance, specifically to exhibit improved dollar spot resistance.

Independence was selected from a large collection of bentgrass plants from greens and fairways from throughout the species range. Collections starting in the early 1990's were made from old golf courses established at least 80 years prior to selection. After years of selection, only the most promising plants exhibiting improved turf quality and dollar spot resistance were chosen as the parental clones for Independence. Reducing dollar spot through genetics could have a tremendous impact on how golf course superintendents manage their turf, with potentially large savings for maintenance and reduced environmental concerns.

Independence Creeping Bentgrass Features

- Improved overall disease resistance
- Improved dollar spot resistance
- Improved mowing qualities
- Medium dark green color
- Upright, aggressive growth habit
- Excellent for fairways, greens, and tees
- Improved overall turf quality
- The new choice for today's turf manager to meet high expectations with current maintenance practices.

Management of Independence Creeping Bentgrass

Independence is an upright, aggressive, medium dense variety that establishes quickly 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. Independence will be the ultimate choice for new construction or reconstruction projects.

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



Declare your Independence.

LebanonTurf

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Independence sets the new standard in recent University Trials

2002 Bentgrass Trial

Country Club of North Carolina (CCNC)

Trial conducted by Dr. Arthur Bruneau

North Carolina State University

Table 17. Mean Turf quality over nine sampling dates for all four treatments.

Entry	Low mow/ no fung.	Low mow/ with fung.	High mow/ no fung.	High mow/ with fung.	Overall Mean
Independence	5.9a	6.2a	6.9a	7.1a	6.6a
Syn 962	6.0a	5.9a	7.1a	6.8ab	6.5a
O10999	5.6abc	5.7abc	6.9a	6.9ab	6.3a
A-1	5.6ab	5.8ab	6.7a	6.5abc	6.2ab
A-4	5.2b-e	5.1def	6.0b	6.4b-d	5.7bc
L93	5.4a-d	5.2def	5.8bc	5.9c-e	5.6c
Bengal	5.0c-f	5.4bcd	6.0b	6.1c-e	5.6c
O10773	4.9c-f	5.3cde	6.0b	5.8de	5.5c
Crenshaw	5.4a-d	4.7f-l	5.8b	6.1c-e	5.5c
G-6	4.9d-g	5.0def	5.8bc	5.8c-e	5.4c
Cato	5.0c-f	4.8f-l	5.9b	5.6ef	5.3cd
Grand Prix	4.9c-f	4.8efg	5.8bc	5.5ef	5.3cd
G-2	4.7efg	4.8e-h	5.6bc	5.6ef	5.2cd
Barifera	4.5fg	4.5ghi	5.2cd	5.0fg	4.9de
Penncross	4.4g	4.4hi	4.9d	5.0fg	4.7e
Regent	4.2g	4.3i	4.9d	4.7g	4.5e
LSD (P=0.5)	0.65	0.49	0.60	0.71	0.48

Turf quality is rated on a scale of 1 to 9; 1=lowest quality; 5=minimally acceptable quality; 9=highest quality. Means followed by the same letter do not significantly differ according to Duncan's New MRT at P=0.05. Low mow height 115/1000; high mow height 150/1000

2000 Bentgrass (Creeping) Fairway Height Test North Brunswick, NJ - 2002 data

Commercial varieties ranked in order of overall turf quality

Variety	Turf Quality 2002	Establishment 09/24/01	Brown patch Avg*	Dollar spot 07/11/02	Pink snow mold Avg*
Independence	6.2	3.3	9.0	7.3	7.7
Bengal	6.1	4.0	8.3	6.0	7.8
Brighton	4.9	4.0	8.6	8.3	7.7
L-93	4.9	4.3	8.3	8.3	7.8
Providence	4.7	3.7	8.3	8.7	7.7
Southshore	4.6	4.3	8.2	8.0	7.7
G-6	4.6	4.3	8.8	7.0	8.0
Regent	4.5	3.7	8.0	7.7	7.8
Putter	4.3	4.3	8.8	7.0	7.7
LSD @ 5%	0.8	1.0	1.1	1.2	1.1

Nine commercial creeping bentgrass varieties listed of total test that included 44 experimental cultivars and six commercial velvet or colonial bentgrasses. The LSD is representative of data from all 59 cultivars.

* Average of Pink Snow Mold (2 ratings), and Brown Patch (4 ratings), respectively.

2000 Bentgrass Putting Green Test - North Brunswick, NJ - 2002 Data

Commercial varieties ranked in order of overall turf quality

Variety	Turf Quality 2002	Establishment 9/24/01	Pink snow mold Avg* 2001	Dollar Spot Avg* 2002	Brown patch Avg* 2002
Independence	5.8	5.7	7.5	5.6	6.0
Bengal	5.8	6.7	7.0	7.2	5.9
Penn A2	5.7	7.7	7.8	6.4	5.3
Penn A-1	5.7	8.7	8.0	6.6	5.5
Penn A-4	5.5	8.7	8.2	5.0	5.3
Nu-Penn Blend	5.4	8.0	7.8	6.3	4.7
Penn G-1	5.1	7.7	7.3	6.8	5.6
Penn G-6	4.7	7.7	7.5	5.8	6.4
L-93	4.7	8.0	8.7	8.1	6.1
SR III9	4.7	7.0	7.5	7.3	5.3
Brighton	4.6	6.7	8.2	7.7	6.0
Pennway Blend	4.3	7.7	7.7	6.5	6.0
Penneagle	4.2	8.7	7.2	6.8	5.4
Seaside II	4.0	8.7	7.5	7.6	5.5
Southshore	4.0	7.0	7.7	6.7	6.0
Putter	3.8	7.3	7.7	6.7	6.4
G-6	3.8	7.0	8.2	6.1	6.3
Pennlinks	3.7	8.0	7.7	7.6	6.2
Cato	3.5	7.3	7.5	7.5	5.4
Providence	3.3	7.0	8.2	8.3	5.9
Regent	3.3	7.7	8.0	7.4	5.0
Penncross	3.0	8.0	7.7	7.8	6.6
Penn Trio Blend	3.0	7.0	8.2	7.8	6.3
LSD @ 5%	0.7	1.4	1.4	1.4	1.3

23 commercial varieties listed of total test that included 48 experimental cultivars. The LSD is representative of data from all 71 cultivars.

Virginia Tech Bentgrass Trial

Treatment	Weed Infestation Rating /04/02	Genetic color Rating May 2002	Dollar Spot Infection Rating May 2002	Quality Rating May 2002
Independence	5.7a	7.3a	2.0a	6.8a
Providence	5.3a	6.8ab	3.0a	5.8ab
Backspin	5.3a	7.3a	3.3a	5.8ab
Penncross	5.7a	7.2ab	3.7a	5.8ab
Penneagle	5.0a	6.7b	2.7a	5.7ab
Crenshaw	6.0a	7.0ab	2.7a	5.3b

9 = Best quality, darkest color, or most weed or disease incidence
1 = Worst quality, lightest color (brown) or no weeds or diseases

