



A LOOK AT ... FROM AN INDEPENDENT PERSPECTIVE from
National Organization Responding Against HUIE that seek to harm the Green Space Industry (NORAHG)

Creeping Bentgrass

A Look At the Penn Series Varieties

' Penn A-4 ' variety for putting greens

This variety is adapted for use on golf course putting greens

Appearance

Genetic colour — Dark green

Colour retention — Good colour retention when temperatures are cold

Texture — Fine leaf texture

Density — Very high shoot density, 2200 to 2600 plants per square decimetre

Fertilization

Requires a moderate level of nitrogen fertilization (3 to 5 pounds of nitrogen per 1000 square feet per season)

Requires minimal irrigation

Needs lots of top-dressing

Creeping Bentgrass

A Look At the Penn Series Varieties

' Penn A-4 ' variety
for putting greens
(continued)

Mowing

Good tolerance of mowing at 0125-inch (3 mm)

Growth

Aggressive growth habit

Very vigorous seedlings

Reduced production of grain on golf course putting greens

Stress

Heat — Very good tolerance

Cold temperatures — Very good tolerance to low temperatures

Creeping Bentgrass

A Look At the Penn Series Varieties

' Penn A-4 ' variety
for putting greens
(continued)

Disease

General — The overall resistance to disease is good

Dollar Spot — Moderate resistance

Fusarium Patch — Good resistance

Other

High tendency to develop thatch

Very good resistance to annual blue-grass invasion



Creeping Bentgrass

A Look At the Penn Series Varieties

' Pennncross ' variety for golf courses

This variety is adapted for use on golf course greens, tees, and fairways

Appearance

Genetic colour — Medium green

Spring green-up — Medium rate

Colour retention — Bluish-gray when temperatures are cold

Texture — Medium fine

Density — Medium shoot density

Risk of visual segregation into distinct patches on golf course putting greens after 5 to 10 years

High risk of foliar chlorosis during summer

Creeping Bentgrass

A Look At the Penn Series Varieties

' Pennncross ' variety
for golf courses
(continued)

Fertilization

Requires a high level of nitrogen (At least 4 to 6 pounds of nitrogen per 1000 square feet per season)

Mowing

Good tolerance of mowing at 0125-inch (3 mm)

Growth

Prostrate, lateral, and aggressive growth habit

Quick establishment

Creeping Bentgrass

A Look At the Penn Series Varieties

Stress

Cold temperatures — Moderate tolerance

Drought — Moderate tolerance

Heat — Good tolerance

Wear and traffic — Excellent tolerance when conditions favour growth

Disease

Anthracnose — Moderate resistance to Anthracnose on putting greens, but good on fairways — May be sensitive to Cool Temperature Anthracnose

Dollar Spot — Good resistance

Fusarium Patch — Good to moderate resistance

Snow Molds — Sensitive to Pink Snow Mold

Take-All — May be sensitive

Yellow Patch — Good resistance

Other

High tendency to develop thatch if the level of nitrogen is high

Very good resistance to annual blue-grass invasion



Creeping Bentgrass

A Look At the Penn Series Varieties

**' Penneagle II ' variety
for tees and fairways**

The experimental name was PBCB

This variety is adapted for use on golf course tees and fairways

Appearance

Genetic colour — Dark green

The colour is darker green than most bentgrasses

Spring green-up — Quick

Texture — Medium fine

Density — High shoot density

Creeping Bentgrass

A Look At the Penn Series Varieties

' Penneagle II ' variety
for tees and fairways
(continued)

Fertilization

Requires a moderate level of nitrogen fertilization (3 to 5 pounds of nitrogen per 1000 square feet per season)

Growth

Moderately aggressive — less aggressive than the variety Penncross

Semi-upright growth habit

Quick rate of germination

Medium rate of establishment — 14 to 21 days

Creeping Bentgrass

A Look At the Penn Series Varieties

Stress

Traffic — Excellent tolerance to wear and traffic

Drought — Poor tolerance

Cold temperatures — Good tolerance to low temperatures

Disease

Anthracnose — Good to moderate resistance on fairways

Brown Patch — Excellent resistance

Fusarium Patch — Good to excellent resistance on fairways

Other

High tendency to develop thatch

Good resistance to annual bluegrass invasion



Creeping Bentgrass

A Look At the Penn Series Varieties

' PennLinks II ' variety for golf courses

This variety is adapted for use on golf course greens, tees, and fairways

Appearance

Genetic colour — Medium dark green

Colour retention — Medium colour retention when temperatures are cold

Spring green-up — Quick

Texture — Medium fine

Density — High shoot density, 1400 to 1600 plants per square decimetre

Fertilization

Requires a high level of nitrogen (At least 4 to 6 pounds of nitrogen per 1000 square feet per season)

Creeping Bentgrass

A Look At the Penn Series Varieties

' PennLinks II ' variety
for golf courses
(continued)

Mowing

Good tolerance of mowing at 0125-inch (3 mm) for greens

Growth

Moderately aggressive growth habit

Semi-upright

Stress

Heat — Good tolerance

Drought — Good tolerance

Creeping Bentgrass

A Look At the Penn Series Varieties

' PennLinks II ' variety
for golf courses
(continued)

Disease

General — The overall resistance to disease is good

Anthracnose — Moderate resistance for greens, and good to moderate resistance on fairways

Dollar Spot — Very good resistance

Fusarium Patch — Good to excellent resistance

Other

Reduced tendency to develop thatch

Good resistance to annual bluegrass invasion



Creeping Bentgrass

A Look At the Penn Series Varieties

' Pennway ' blend for golf fairways

Pennway (Non-Certified)

A blend of Penncross,
PennLinks II, Seaside II,
Penn G-6, and Penneagle

This blend was designed for use on
golf course fairways

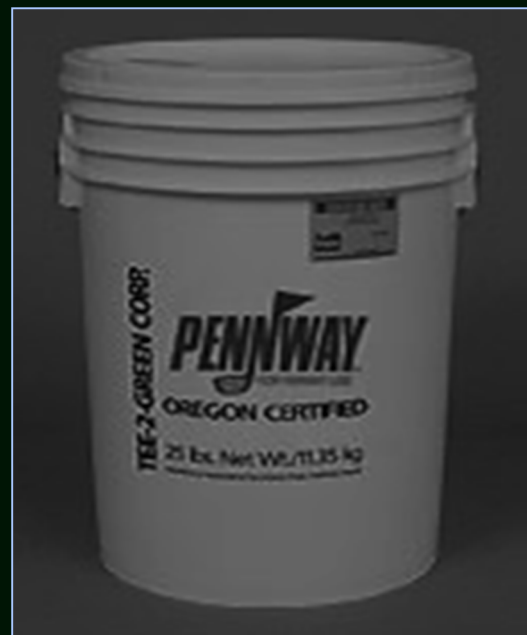
Stress

Heat — Good heat tolerance

Drought — Good tolerance

Disease

The overall resistance to disease is
good



A LOOK AT is a Report presented by National Organization Responding Against Hujie that seek to harm or misinform the Green Space Industry (NORAHG). It is a series of Reports destined for the Green Space Industry, nationwide across Canada, the United States, and overseas. This Report has been developed for the education and entertainment of the reader by providing TECHNICAL INFORMATION WITH COMMENTARY.

A LOOK AT is TOTALLY INDEPENDENT of any trade association or business operating within the Green Space Industry. Don't thank us. It's a public service. And we are glad to do it.

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The information presented in this Report is for preliminary planning only. Before making a final decision, the turf manager is expected to obtain trusted expert advice from extension specialists, local distributors and/or agronomists. All decisions must take into account the prevailing growing conditions, the time of year, and the established management practices.

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A LOOK AT, and its various incarnations, is the brainchild of William H. Gathercole and his entourage. Mr. Gathercole is a principal founder of the Modern Professional Lawn Care Industry in both Ontario and Quebec. He holds a degree in Horticulture from the University of Guelph, and another pure and applied science degree from McGill University. He has worked in virtually all aspects of the Green Space Industry, including golf, professional lawn care, and distribution. Mr. Gathercole has supervised, consulted, programmed, and/or overseen the successful execution of hundreds of thousands of management operations in the urban landscape. He has trained, instructed, and advised thousands of turf managers and technicians. Mr. Gathercole has also been an agricultural agronomist. Mr. Gathercole is personally credited for crafting the Exception Status that has allowed the Golf Industry to avoid being subjected to the PROHIBITION-TERRORISM policies of pest control products. He is also the creator of the signs that are now used for posting after application.

Mr. Gathercole is now retired, although his name continues to appear as the founder of A LOOK AT.



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