

***Force*** *of*  
***Nature***









# Turf Disease Suppression

## A Look At Managing Vegetation and Shade Conditions

### Vegetation Management — General Considerations

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Mature trees, forests, and other types of dense vegetation will contribute to POOR AIR CIRCULATION and SHADE, leading to a reduction in turfgrass health.

Dense vegetation surrounding turf will INCREASE TURF SUSCEPTIBILITY to the following diseases on just about every type of turfgrass location, from golf course turf to residential home lawns —

- Drechslera Melting-Out
- Powdery Mildew

Disease problems can be reduced if plants are pruned to allow more sunlight to reach turf, and to permit great air circulation.

Disease problems can be further reduced by proper species selection.

### Classification of Turfgrasses According to their Resistance to Shade

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Excellent	Annual Bluegrass Chewings Fescue Hard Fescue Red Fescue Rough Bluegrass Sheep Fescue
Moderate	Colonial Bentgrass
Fair to good	Creeping Bentgrass Red Top Tall Fescue
Fair	Canada Bluegrass
Poor	Annual Ryegrass Kentucky Bluegrass Perennial Ryegrass

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### Turfgrass Species that will Tolerate Shade

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All Fine-Leaved Fescues will tolerate shade when soil conditions are dry and/or well-drained.

If soil conditions are humid, irrigated, and/or poorly-drained, a mixture of Fine-Leaved Fescues with Rough Bluegrass ( *Poa trivialis* ) is often recommended.

On the matter of Kentucky Bluegrass, varieties with IMPROVED performance against shade and associated diseases would be a definite advantage in a disease management program.

### Vegetation Management — Golf Course Conditions

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Practically every golf course has at least one or two PROBLEM putting greens that are CHRONICALLY SICK due to the dense vegetation surrounding it.

Such vegetation will provide EXCESS SHADE and will RESTRICT THE AIR CIRCULATION, which will lead to a reduction in turfgrass health.

The conditions that promote POOR AIR CIRCULATION and SHADE are caused by mature trees, forests, and other types of dense barriers of vegetation.

Poor air circulation WILL INCREASE TURF SUSCEPTIBILITY to the following diseases specifically on golf course turf —

- Anthracnose Basal Rot
- Anthracnose Foliar Blight
- Pythium Blight

In such cases, disease problems can be considerably reduced when vegetation is NOT allowed, and ultimately removed, WITHIN AT LEAST 30 METRES ( 100 FEET ) from the edge of the putting green surface.

# Turf Disease Suppression

## A Look At Managing Vegetation and Shade Conditions

### Seed Mixture for Residential and Commercial Lawns

#### — Light Shade and Dry Soil Conditions

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- 25 per cent — Creeping Red Fescue, Common-Type Variety
- 25 per cent — Creeping Red Fescue, Improved Variety
- 25 per cent — Kentucky Bluegrass, Improved Variety for Partial Shade
- 25 per cent — Perennial Ryegrass, Variety Not Stated

### Seed Mixture for Residential and Commercial Lawns

#### — Moderate Shade and Dry Soil Conditions

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- 25 per cent — Creeping Red Fescue, Common-Type Variety
- 25 per cent — Creeping Red Fescue, Improved Variety
- 25 per cent — Hard Fescue, Improved Variety
- 25 per cent — Sheep Fescue, Improved Variety

### Seed Mixtures for Residential and Commercial Lawns

#### — Intense Shade and Humid Soil Conditions

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- 50 per cent — Creeping Red Fescue, Improved Variety
- 50 per cent — Rough Bluegrass ( *Poa trivialis* ), Improved Variety
- 50 per cent — Creeping Red Fescue, Common-Type Variety
- 30 per cent — Rough Bluegrass ( *Poa trivialis* ), Improved Variety
- 20 per cent — Perennial Ryegrass, Variety Not Stated

### Seed Mixtures for Golf Course Teeing Grounds in Partial Shade

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- 50 per cent — Chewings Fescue, Improved Variety
- 50 per cent — Rough Bluegrass ( *Poa trivialis* ), Improved Variety
- 10 per cent — Creeping Bentgrass, ' Alpha '
- 90 per cent — Rough Bluegrass ( *Poa trivialis* ), Improved Variety



# Turf Disease Suppression

## A Look At Managing Vegetation and Shade Conditions

### Kentucky Bluegrass Varieties with Tolerance to Partial Shade

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Abbey  
Absolute  
Alpine  
Arcadia  
Arrow  
Avalanche  
Award

Barrister  
Brooklawn  
Cheetah  
Everest  
Impact  
KenBlue  
Liberator

Midnight Star  
NuGlade  
Rugby II  
Rush  
Showcase  
SR-2284  
Sudden Impact

### Kentucky Bluegrass Varieties with LOW Tolerance to Shade

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Midnight  
Midnight II

Nu Destiny  
Perfection

Raven  
SR-2100

### Kentucky Bluegrass Varieties That MAY Resist Powdery Mildew Disease

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Abbey  
America  
Avalanche  
Brooklawn  
Classic

Cheetah  
Glade  
Kenblue  
Limousine

Moonlight  
Shamrock  
Showcase  
SR-2284  
Welcome

### Kentucky Bluegrass Varieties SENSITIVE to Powdery Mildew Disease

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Absolute  
Argyle  
Award  
Baron

BlueChip  
Gnome  
Liberator

NuGlade  
Regent  
Rugby II  
Rush

### Kentucky Bluegrass Varieties VERY SENSITIVE to Powdery Mildew

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Arcadia  
Everest

Impact  
Midnight

Midnight II  
Perfection

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Force Of Nature presents THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from National Organization Responding Against Huje that seek to harm or misinform the Green Space Industry (NORAHG). It is a series of Reports destined for the Green Space Industry, the Environmental Terror Movement, Governments, and the Media, 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. The neutrality of the Report might be disputed.

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.

All products mentioned in this Report should be used in accordance with the manufacturer's directions, and according to provincial, state, or federal law. For the official advantages, benefits, features, precautions, and restrictions concerning any product, the turf manager must rely only on the information furnished by the manufacturer. The mention of trade names does not constitute a guarantee or a warranty.

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Force Of Nature 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 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 from Force Of Nature, although his name continues to appear as the founder.

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