



SEEDS & SCIENCE

EASTERN CANADA

# PRO TURF PRODUCT GUIDE

EDITION 2

2024



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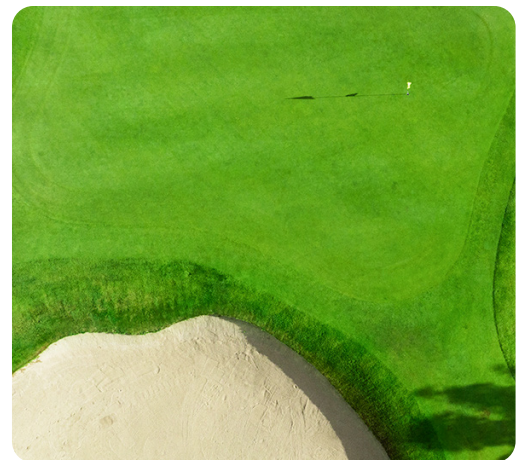
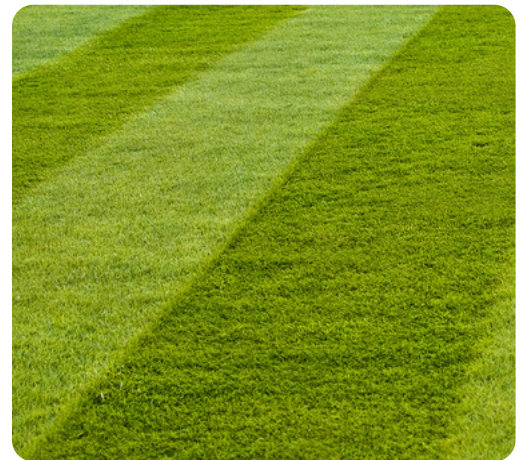
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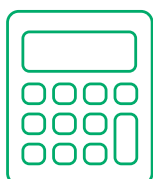
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# DLF PRODUCT SELECTION TOOL

## OUR NEW PRODUCT SELECTION TOOL HELPS YOU CHOOSE PRODUCTS TO MATCH YOUR NEEDS



Simply add products & press 'request quote' button to connect with our expert sales team for pricing and additional product advice.

You can even estimate required quantities with our easy built-in seed calculator!

[www.dlfpickseed.ca/product-selection-tool](http://www.dlfpickseed.ca/product-selection-tool)

# CUSTOMER SERVICE

At DLF we strive to provide industry leading customer service. We will provide the tools and support you need to succeed! We're proud of the people and relationships that make up DLF. The knowledge, expertise, loyalty and trust they bring are essential to our ability to deliver value to our customers, and to our continued success. We build a culture of trust through the following customer service standards:

## ABOUT DLF CANADA INC. ...

DLF Canada Inc. was formed in 2022. DLF was founded in 1906 and is the global market leader in the research, development, production and distribution of turfgrass and forage crop seed.

DLF is owned by 3,000 Danish seed growers and has subsidiaries or sales offices in 22 countries around the world.

DLF Canada Inc. is headquartered in Lindsay, Ontario. Our brands are backed by a trusted and proven reputation for quality, agronomic advice and a commitment to research and technology. Our dedicated team provides practical and effective solutions to improve your profitability and reduce your operating risk.

Certified seeds are harvested, cleaned and samples are taken and tested for purity and germination in our own laboratories.

## COMMUNICATION

Customer can expect and trust professional advice and support

## COMMITMENT

Customers can expect delivery of quality products and friendly service

## CREDIBILITY

Customers can expect added value by working with us

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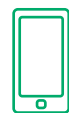
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**CUSTOMER SERVICE  
QUÉBEC  
800-567-7425**

**NEIL DOUGLAS**

*Executive Vice President,  
DLF North America*

We have an opportunity today to do something great – together.

Let me take this moment to welcome you to DLF North America. While we take time to listen and learn about your business and invest in tools to help you grow, we also invite you to help us think BIG. Even Earth-sized.

We are pulling together DLF teams and resources from across the globe to tackle big problems – like changing climate patterns, carbon emissions, disease pressures and more – with improved products you have at your fingertips. You are Seeding the Green Future by partnering with us to deliver sustainable solutions where we play, where we work and where we live.

You have a tremendous opportunity to help us bring some of the world’s best products to the customer, while helping our earth and growing your business along the way. DLF will provide the tools and support you need to succeed. We hope that you will join us.



## OUR CUSTOMERS CAN **COUNT ON GROWTH**

At DLF we research, develop and produce products to specifically meet the needs of the Canadian market and conditions.

DLF is the global leader in research, development, production and distribution of turf and other seed. **This makes us part of a worldwide organization with a passion for innovation and a commitment to helping us deliver the best turf products.**



World market leader **within temperate forage and turf seeds**. Supplying to more than 100 countries



**Leading research and development program** in sustainable and green crops of the future



**7th largest** seed company in the world

DRIVEN BY SCIENCE

# TO SEED A GREEN FUTURE

Our customers demand a lot from their seed: yield, quality, winter hardiness and disease resistance. That is why we invest heavily in global R&D and our research plots. Roughly 11% (1 in 9) of DLF's over 2,000 worldwide employees are involved in breeding programs and product development.

## THE WORLD OF DLF



**850 EMPLOYEES**  
work in DLF's Turf and Forage Division worldwide



**10% OF DLF'S WORKFORCE**  
is employed in research & development



**1,600 VARIETIES**  
have been released and commercialized  
through this effort!



For more than 25 years, **Leah Brillman, Ph.D.** has worked for Seed Research of Oregon and DLF. She currently serves as Director of Research and Technical Services. Brillman's research interests include turfgrass breeding and genetics as well as the utilization of new cultivars and management changes. Her excellence in the turfgrass industry has been well documented through the many awards she has received, including a National Science Foundation Graduate Fellowship, the Association of Commercial Plant Breeders Award for Industry Breeder, and being named a fellow in the Crop Science Society of America (CSSA). She has received the Fred V. Grau Turfgrass Science Award from the Turfgrass Science Division of CSSA.

# A-LIST VARIETIES

For decades turfgrass breeders have toiled to create varieties that out perform their predecessors. Turf managers also struggle to balance required management practices with environmental dictates.

Varieties have unique traits, much like a fingerprint, that allow them to be compared and evaluated on a standard basis. The ALLIANCE FOR LOW INPUT SUSTAINABLE TURF® (A-LIST®) seeks to influence turfgrass breeding by creating trial guidelines and evaluation protocols to identify the best performing turfgrass varieties that also have reduced input demands.

## PURPOSE

A-LIST is an independent, non-profit, industry initiative, fostering development of sustainable turfgrass varieties and related products that perform their function with less maintenance inputs, thus benefiting the environment. A-LIST will establish and monitor a voluntary evaluation program including metrics like water conservation, reduced fertility, traffic, heat, and drought stress tolerances, all with no fungicide or insecticide applications. Products that meet the acceptance criteria can utilize the A-LIST Approved symbol in their marketing.

## FOUNDING MEMBERS

Our founding members believe that responsible stewardship of the earth's natural resources is shifting emphasis toward more efficient plant sustainability. Turfgrasses enjoy several inherent psychological and environmental benefits. Their sustainability under reduced growing inputs will further enhance their value and contribution.

This suggests a research protocol that is more holistic in nature, addressing all factors contributing to a plants health, rather than a narrow focus on a selected trait.



The **Alliance for Low Input Sustainable Turf** is a non-profit university and industry cooperative that serves to test, identify and promote varieties to consumers that maintain acceptable turf quality while requiring reduced water, chemical and fertility inputs.



**SUSTAINABLE  
VARIETY**



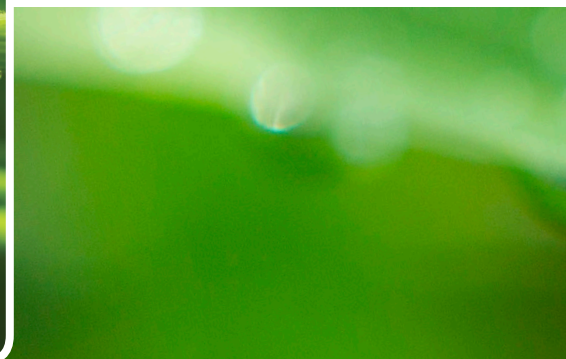
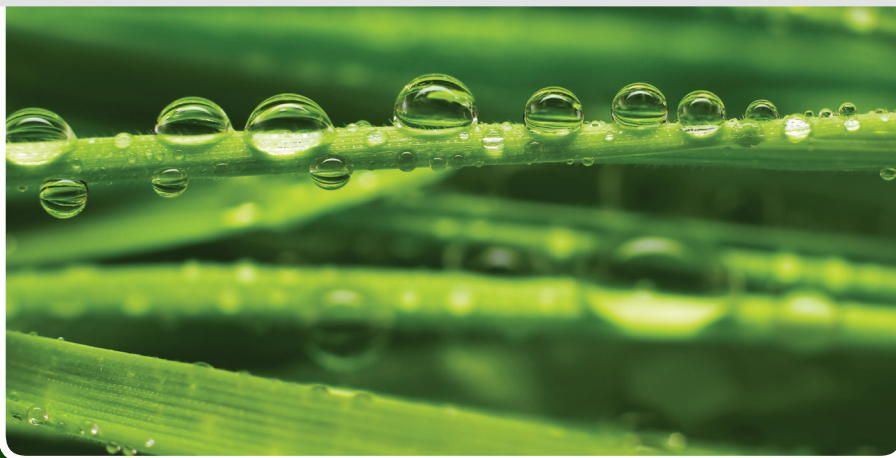
**HEAT  
TOLERANCE**



**REDUCED  
INPUTS**



**DECREASED  
WATER USE**





# ALLIANCE FOR LOW INPUT SUSTAINABLE TURF

## A-LIST VARIETY SELECTION PROCESS

The A-LIST is an independent, non-profit, industry initiative, fostering development of sustainable turfgrass varieties and related products that perform their function with less maintenance inputs, thus benefiting the environment. A-LIST monitors a voluntary evaluation program including metrics like water conservation, reduced fertility and traffic, heat, and drought stress tolerances, all with no fungicide or insecticide applications. The varieties listed below represent the currently approved varieties. Be sure to check the A-LIST web site for future lists.

### A-LIST CULTIVARS 2024

#### **Kentucky Bluegrass**

Jackrabbit  
Mercury

#### **Promising**

Martha

#### **Tall Fescue**

Fayette  
Grande 3  
Nightcrawler  
Raceway  
Rebounder  
Rhizing Moon

#### **Promising**

Gallardo  
(DLFPS-TF/3550)  
Bentley  
(DLFPS-321/3679)  
DLFPS-321/3711  
(RS1 in NTEP)

#### **Perennial Ryegrass**

Allstar Fore  
Banfield  
Sideways  
Thrive

#### **Promising**

Helios  
(DLFPS-236/3538)  
Mach Two  
(DLFPS-236/3556)  
DLFPS-236/3540

#### **Fine Fescue**

Quatro Sheep  
Chantilly Strong Creeping  
(Ruddy sub)

#### **Bentgrass**

MacDonald  
777  
007XL



# KENTUCKY BLUEGRASS

Cool season grass that grows best during the fall, winter and spring months. Prefers sun, but will tolerate some shade. Persistent with strong rhizomes and erect leafy shoots. Regrowth of leafy material that can be mown easily, leaving a clean cut. Tolerates hard wear and can regenerate itself even if the stand is badly damaged. Perfect partner in mixtures with tall fescue.



## ARMADA

### KENTUCKY BLUEGRASS

- Compact America
- Very dense, low growing cultivar
- Excellent turf quality



## BLUE VELVET

### KENTUCKY BLUEGRASS

- Compact midnight
- Low growing cultivar
- Low maintenance



## GRANITE

### KENTUCKY BLUEGRASS

- Compact midnight
- Fine leaf texture
- Wear tolerant



## HEIDI

### KENTUCKY BLUEGRASS

- Compact type
- Superior turf quality
- Excellent wear tolerance



## JACKRABBIT

### KENTUCKY BLUEGRASS

- Julia type
- Quick establishment
- Superior wear tolerance



## MERCURY

### KENTUCKY BLUEGRASS

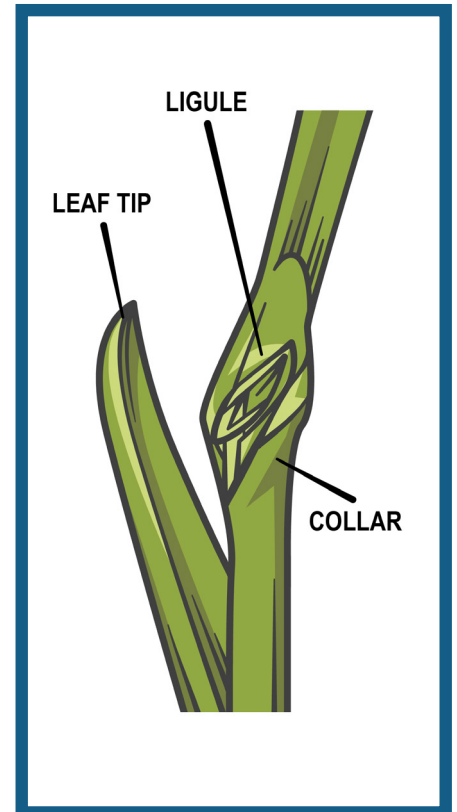
- Compact America
- Tolerates hard wear
- Self repairing properties



## SOMBRERO

### KENTUCKY BLUEGRASS

- Limousine Aggressive
- Excellent wear tolerance
- Creates a dense durable turf



Blade	V-Shaped, boat-shaped tip
Ligule	Clear, cropped
Collar	Smooth, yellowish-green
New Leaf	Folded
Germination	12 - 21 Days
Application Rate	2 - 4 lbs per 1000 ft <sup>2</sup>





# PLATINUM PROGRAM™

The Platinum series of blends offer a balance of genetics, providing professionals with varieties that have specific applications for sod production. Platinum mixes are a carefully selected blend of the most elite Kentucky bluegrass types available.

Pickseed's legacy has been recognized by DLF and will continue to develop these blends specifically for sod producers, providing a high quality, high density, and disease resistant turf.

PLATINUM GOLD 453ST0012CM	PLATINUM SILVER 453ST0013CM	A-LIST 453ST0029CM	PLATINUM HEAT 453ST0028CM
25% Compact America	40% Compact America	35% Julia	20% Julia/Shamrock
25% Compact Midnight	40% Julia/Shamrock	30% Compact	40% Rhizomatous Tall Fescue
25% Limousine/Compact	20% BVMG	35% Shamrock	40% Rhizomatous Tall Fescue
25% Julia/Shamrock	100%	100%	100%
100%			
<ul style="list-style-type: none"> <li>• Blend of elite Kentucky bluegrasses</li> <li>• Low, compact, high quality turf</li> <li>• High disease resistance</li> </ul>	<ul style="list-style-type: none"> <li>• Blend of elite Kentucky bluegrasses</li> <li>• Aggressive lateral growth</li> <li>• Very high wear tolerance</li> </ul>	<ul style="list-style-type: none"> <li>• Blend of elite Kentucky bluegrasses</li> <li>• Reduced inputs</li> <li>• Low, compact, high quality turf</li> </ul>	<ul style="list-style-type: none"> <li>• Blend of elite Kentucky bluegrass/Tall Fescue varieties</li> <li>• Aggressive tillering and high rhizome expression</li> <li>• Reduced inputs</li> </ul>

- A blend of 3 or 4 NTEP proven cultivars
- Double industry standard sample size for germ and weed
- Samples from every lot conserved for a minimum of 2 years
- Dedicated in-house seed mixer exclusively used for sod blends



*These charts are for general observation only. Individual performance of varieties within each classification may vary widely and require comparative regional test results (NTEP) to determine the best performing variety.*

# FINE FESCUE

Four grasses go under the common name of fine fescue: chewings fescue, creeping red fescue, sheep fescue and hard fescue. All survive extreme cold and combine well with other cool season grasses. None of the fine fescues tolerate wear and tear, but they have the ability to grow in dry shade.

## WINDWARD

CHEWINGS FESCUE

- High endophyte levels
- Low fertility turfgrass
- Very winter hardy

## GARNET

CREEPING RED FESCUE

- Tough persistent turfgrass
- Excellent rhizome growth
- Excellent performance

## QUATRO

SHEEP FESCUE

- Improved shade tolerance
- Slow growing
- Rapid establishment

## SPARTAN II

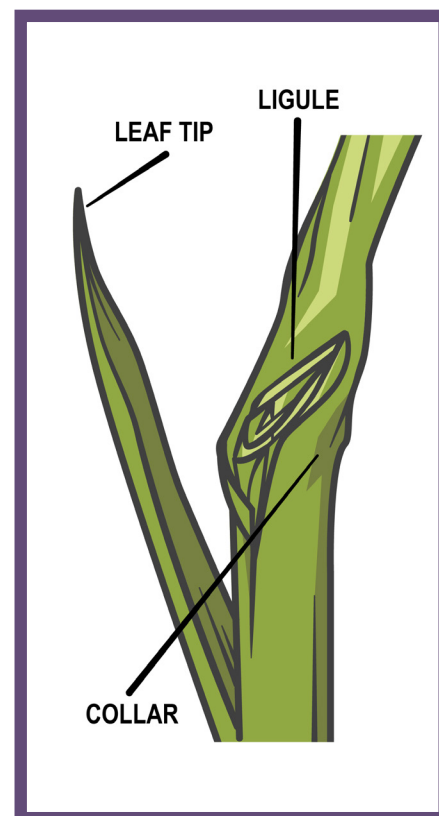
HARD FESCUE

- Slow vertical growth
- Low fertility turfgrass
- Excellent winterhardiness

## SHORELINE

SLENDER CREEPING RED FESCUE

- Excellent salt tolerance
- Endophyte enhanced
- High heat tolerance



Blade	Folded, boat-shaped tip
Ligule	Clear, short
Collar	Smooth
New Leaf	Folded
Germination	8 - 21 Days
Application Rate	4 - 6 lbs per 1000 ft <sup>2</sup>



# TALL FESCUE

Cool season grass, well adapted to sunny or partially shady areas. Tolerates warm summer temperatures and stays green during cool, but not severe winter conditions. Tall fescue is a good species to plant for general lawn use. Establishes quickly, but not quite as fast as perennial ryegrass. Good disease and weed resistance.

## CROSSFIRE 4

TALL FESCUE

- Good under heavy traffic stress
- High endophyte levels
- Excellent cold tolerance



## FAYETTE

TALL FESCUE

- Tolerates poor soil quality
- Exceptional turf quality
- Low growing variety



## MUSTANG 4

TALL FESCUE

- Tolerates poor soil quality
- Exceptional turf quality
- Low growing variety



## NIGHTCRAWLER

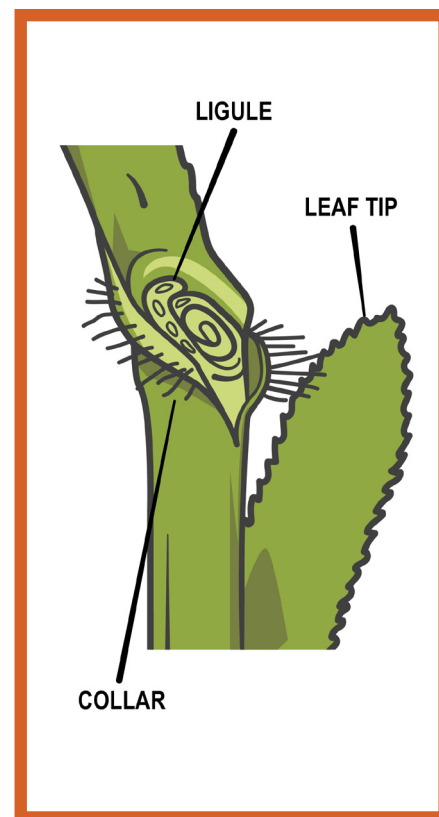
TALL FESCUE

- Very wear tolerant
- Superior shade tolerance
- High endophyte levels

## UNITUS

TALL FESCUE

- Superior long term performance
- Brown Patch resistant
- Improved seedling establishment



Blade	Broad, flat, blunt
Ligule	Clear, long, cropped
Collar	Heavy
New Leaf	Rolled
Germination	8 - 21 Days
Application Rate	6 - 10 lbs per 1000 ft <sup>2</sup>



# PERENNIAL RYEGRASS

Perennial ryegrass is the fastest establishing species of all the turfgrasses. It prefers milder climates, but tolerates lower temperatures with adequate snow cover. It can be used on most soil types, with the exception of very wet land. Perennial ryegrass has very high wear tolerance.

4turf®

## DOUBLE PERENNIAL RYEGRASS

- Fast establishment
- Tetraploid Perennial Ryegrass
- Excellent winterhardiness

## FIESTA 4 PERENNIAL RYEGRASS

- Spreading type Perennial Ryegrass
- High endophyte variety
- Dark green colour

## KARMA PERENNIAL RYEGRASS

- Superior germination
- Outstanding disease resistance
- Excellent seedling vigour

## MIGHTY PERENNIAL RYEGRASS

- High endophyte level
- Excellent summer performer
- High germination vigor

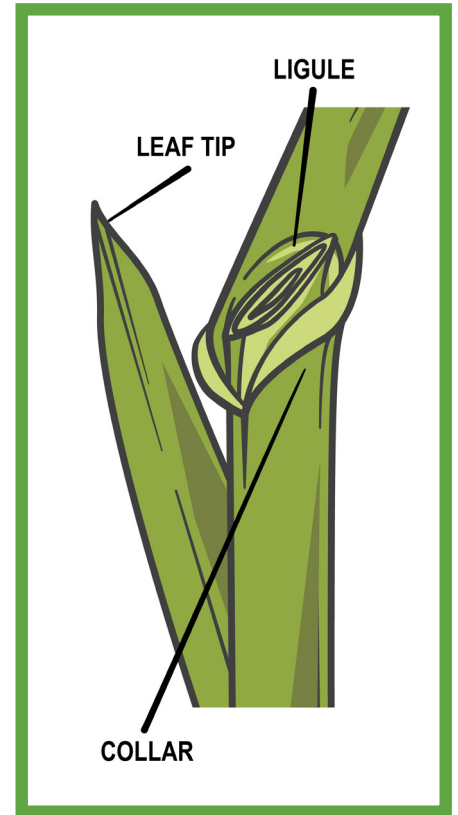
4turf®

## TETRAGREEN PERENNIAL RYEGRASS

- Ideal mixture partner
- Improved stress tolerance
- All-round disease resistance

## WICKED PERENNIAL RYEGRASS

- Resistance to Gray Leaf Spot, Stem Rust & Net Blotch
- High stress tolerance
- Drought tolerant



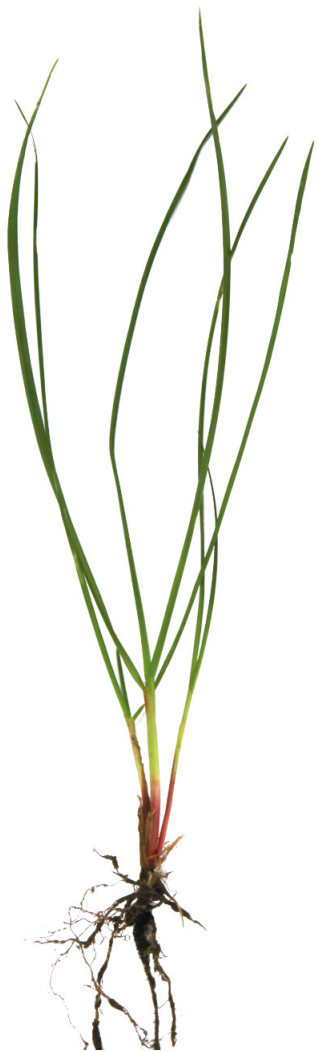
Blade	Flat, sharp tip
Ligule	Clear, long, cropped
Collar	Narrow
New Leaf	Folded
Germination	5 - 10 days
Application Rate	7 - 10 lbs per 1000 ft <sup>2</sup>



4turf®

# A NEW GENERATION OF RYEGRASS FOR THE TOUGHEST TURF

4turf® is a new generation of tetraploid perennial ryegrass varieties, developed to be quick establishing, strong, deep-rooting and tolerant to stress. 4turf® is better able to withstand a range of stressful conditions, such as drought, cold, disease and wear.



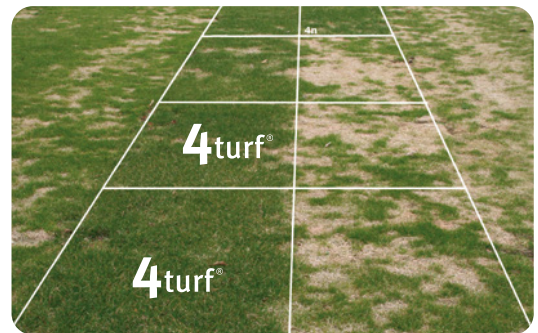
## DROUGHT TOLERANT

4turf®'s natural water reserves in the plant ensures that it stays green longer. 4turf®'s superior rooting structure helps it look for water and reduces the need for additional irrigation of established turf.



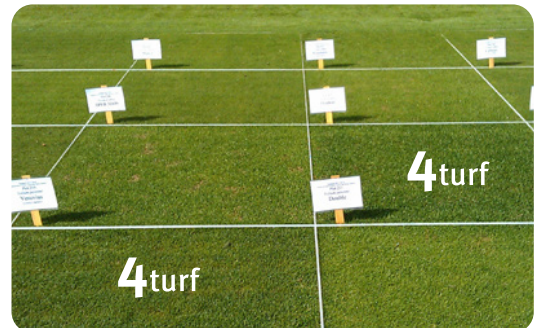
## EXCEPTIONAL DISEASE RESISTANCE & WINTER PERFORMANCE

4turf® gives you green ground cover during the most difficult period of the year because of improved energy reserves. During the fall and winter seasons 4turf® shows improved tolerance to diseases.



## EXCELLENT COLOUR

4turf® has a deeper glossier dark green colour than traditional varieties. Its improved stress tolerance throughout the year and its increased resistance to weed invasion means that 4turf® will be greener quicker and for longer than traditional varieties of perennial ryegrass.



# **SUPER BENTS™**

## **WHAT DOES IT TAKE TO CLASSIFY AS A MEMBER OF THE SUPER BENTS™?**

Only an advanced generation, highly refined bentgrass variety, bred for genetically enhanced disease resistance and scientifically designed for use on closely maintained golf greens, fairways and tees can obtain classification as "One of the SUPER BENTS™."

The elite, environmentally-friendly turf performance of SUPER BENTS™ are the result of meticulous testing by Seed Research of Oregon and DLF that exceeds all industry standards and removes undesirable weeds and crop like *Poa annua* and *Poa trivialis*.

## **WHAT TO LOOK FOR IN AN IMPROVED BENTGRASS**

- PLEASING COLOUR
- NO PURPLING IN COOL WEATHER
- FINE LEAF TEXTURE
- EXCELLENT TURF DENSITY
- NOT PUFFY
- NO SCALPING DURING MOWING
- LOW POA ANNUA INVASION
- PINK SNOW MOLD RESISTANCE
- GREY SNOW MOLD RESISTANCE
- ANTHRACNOSE RESISTANCE
- BROWN PATCH RESISTANCE
- SALT TOLERANCE
- TOLERANCE OF LOW MOWING
- RAPID ESTABLISHMENT

**SUPERIOR TURF QUALITY**

**FAST ESTABLISHMENT FOR INTERSEEDING**

**RAPID GERMINATION**

# BENTGRASS

Cool season grass, used almost exclusively on golf course putting greens and fairways. Characterized by persistence under extremely low cutting heights and very dense uniform, stoloniferous growth and rapid recuperation. Creeping bentgrass can also be used in mixtures to produce a very dense lawn.



## MACKENZIE

CREeping BENTGRASS

- Superior turf quality
- Lateral spread for recovery
- Excellent disease resistance



## MACDONALD

CREeping BENTGRASS

- Superior greens, tees and fairways
- Rapid establishment for interseeding
- Resistant to Poa annua invasion



## FUTURA PRO

BENTGRASS BLEND

- Ideal for greens
- Competitive against Poa annua
- High disease resistance



## FUTURA PRO EXTREME

BENTGRASS BLEND

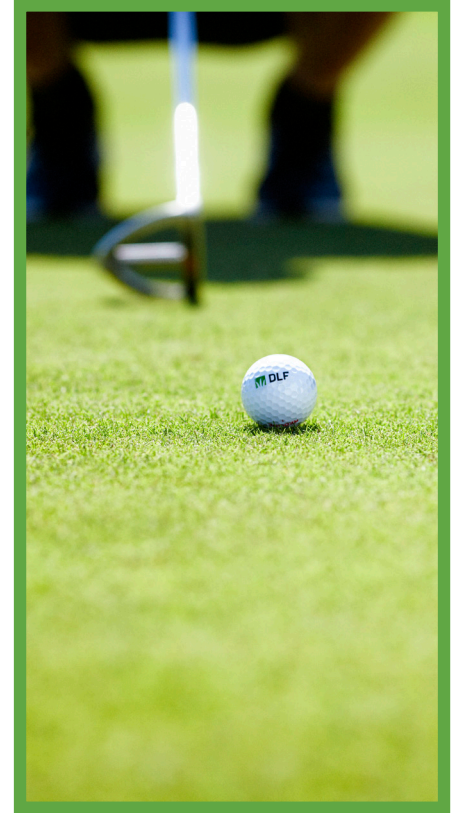
- Rapid germination
- Superior Dollar Spot resistance
- Competes against Poa annua



- High turf density/Poa annua resistance
- Superior disease resistance
- Excellent for all mowing
- Cool weather active growth, with no fall purpling



- Ideal choice for tees & fairways
- Good spring green up
- Upright growth



Blade	Pointed tip
Ligule	Long, tapering, membranous
Collar	Divided, unequal sides
New Leaf	Folded
Germination	4 - 10 Days
Application Rate	1 - 2 lbs per 1000 ft <sup>2</sup>

# TURF MIXES

■ Certified Turf Mixes  
■ Common Turf Mixes

## FUTURA 3000

7-10 lbs/1000ft<sup>2</sup> | 2.5-3.5 kg/100m<sup>2</sup>

25, 10, 5 & 1 kg bags Germination: 5-10 days

Starts fast, produces a rich green turf, and stands up to traffic

- High performance Ryegrass blend
- Fast germination
- Quick establishment



- 100% Certified Perennial Ryegrass (3 Varieties)

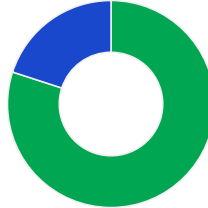
## FUTURA BLUE

4-6 lbs/1000 ft<sup>2</sup> | 2.1 kg/100 m<sup>2</sup>

25 & 10 kg bags Germination: 7-21 days

Same features as Futura 3000 with added benefit of KY Bluegrass

- Fast establishment of Ryegrass
- Kentucky Bluegrass adds persistence
- Fast growth



- 80% Certified Perennial Ryegrass
- 20% Certified Kentucky Bluegrass

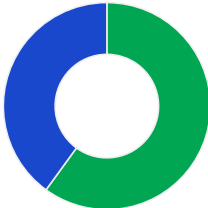
## FUTURA SPORT

6.5 lbs/1000 ft<sup>2</sup> | 3 kg/100 m<sup>2</sup>

25 & 10 kg bags Germination: 5-21 days

Developed for athletic fields and high traffic areas

- Quick germination
- Dark green colour
- Dense growth habit



- 60% Certified Kentucky Bluegrass (3 Varieties)
- 40% Certified Perennial Ryegrass (2 Varieties)

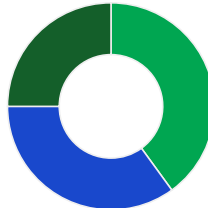
## PERFECTION

3-4 lbs/1000 ft<sup>2</sup> | 1.7 kg/100 m<sup>2</sup>

25, 10, 5 & 1 kg bags Germination: 7-21 days

Medium to high density turf with an attractive deep green colour

- Attractive, deep green colour
- Overseed mid to high quality lawns
- Produces a high density turf



- 40% Certified Kentucky Bluegrass
- 35% Certified Perennial Ryegrass
- 25% Certified Creeping Red Fescue

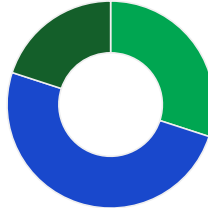
## SPORTS TURF NON IRRIGATED

3 lbs/1000 ft<sup>2</sup> | 1.5 kg/100 m<sup>2</sup>

25 & 10 kg bags Germination: 7-21 days

A low maintenance lawn that is environmentally friendly

- Fast germination & quick establishment
- Excellent drought tolerance
- Endophyte enhanced



- 30% Certified Creeping Red Fescue
- 50% Certified Kentucky Bluegrass
- 20% Certified Perennial Ryegrass

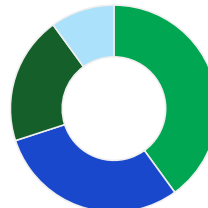
## ULTRA SHADE

4-5 lbs/1000 ft<sup>2</sup> | 1.8 kg/100 m<sup>2</sup>

25, 10, 5 & 1 kg bags Germination: 7-21 days

A dominant fescue turf with fine bristle-like leaves

- For areas with restricted sunlight
- A dominant fescue turf
- Dense, fine, leaf texture



- 40% Certified Creeping Red Fescue
- 30% Certified Chewings Fescue
- 20% Certified Perennial Ryegrass
- 10% Certified Kentucky Bluegrass

Mixtures are subject to change based on seed availability



## ECO TURF

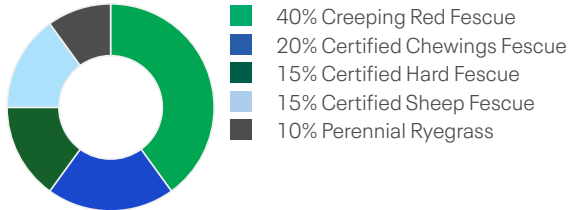
4-6 lbs/1000 ft<sup>2</sup> | 1.5-2 kg/100 m<sup>2</sup>

25 & 10 kg bags

Germination: 7-21 days

A low maintenance lawn that is environmentally friendly

- Fast germination & quick establishment
- Excellent drought tolerance
- Endophyte enhanced



## SCOTTISH FESCUE

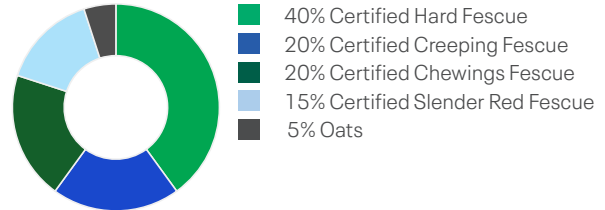
3-4 lbs/1000 ft<sup>2</sup> | 2.5-3.5 kg/100 m<sup>2</sup>

25 & 10 kg bags

Germination: 7-21 days

Designed for natural and low maintenance areas on golf courses

- Excellent salt & shade tolerance
- Excellent weed control
- Excellent drought tolerance



## CAMPUS GREEN

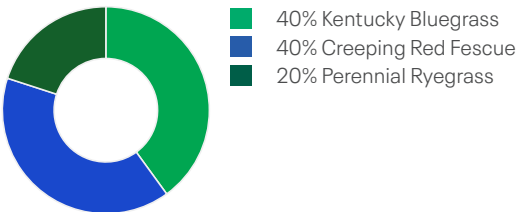
4 lbs/1000 ft<sup>2</sup> | 1.8 kg/100 m<sup>2</sup>

25, 10, 5 & 1 kg bags

Germination: 7-21 days

All-purpose turf mixture that is adaptable and cost effective

- Rapid establishment
- Rich, dark green colour
- Shade tolerant



## VAL-U-GREEN

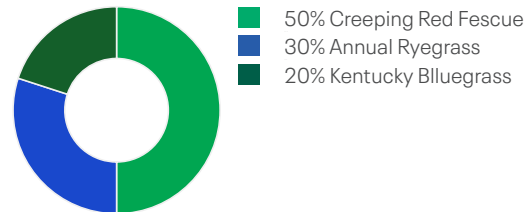
5 lbs/1000 ft<sup>2</sup> | 2.5 kg/100 m<sup>2</sup>

25, 10, 5 & 1 kg bags

Germination: 7-21 days

A low to mid density lawn with a lighter green colour

- All-purpose mixture
- Lighter green colour
- Fast establishment



## M.T.O.

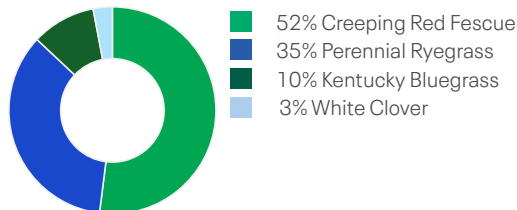
6-7 lbs/1000 ft<sup>2</sup> | 1.7 kg/100 m<sup>2</sup>

25 & 10 kg bags

Germination: 5-10 days

From the Ministry of Transportation. Excellent soil erosion prevention

- Ontario roadside mixture
- Requires little to no maintenance
- Fast establishment



## GREEN FIELDS

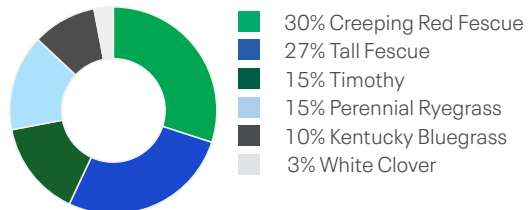
3-4 lbs/1000 ft<sup>2</sup> | 1.75-2 kg/100 m<sup>2</sup>

25 & 10 kg bags

Germination: 7-21 days

Excellent ground cover. Leave unmowed or cut 2-3 times annually.

- All-purpose mixture
- Superior performance around ponds & ditch banks
- Fast establishment



# TURFLINE® MIXES

THE GARDEN OWNER'S FAVOURITE

**SUNSHINE** 4 lbs/1000 ft<sup>2</sup> | 1.8 kg/100 m<sup>2</sup>

25, 7.5, 3.5 & 1.5 kg bags Germination: 7-21 days

Sunshine keeps a nice green colour even in dry periods

- Very high drought tolerance
- Dense compact growth
- Good recovery after wear and damage

- 40% VNS Perennial Ryegrass
- 10% QuickAction Perennial Ryegrass
- 30% Creeping Red Fescue
- 20% Kentucky Bluegrass

**TURBO** 5-7 lbs/1000 ft<sup>2</sup> | 2.5-3.5 kg/100 m<sup>2</sup>

25, 7.5, 3.5 & 1.5 kg bags Germination: 7-21 days

Turbo has fast establishment which means fewer weeds

- Fast germinating
- Performs well at low temps
- Excellent establishment and growth

- 60% VNS Perennial Ryegrass
- 10% Certified Perennial Ryegrass
- 20% TXR Annual Ryegrass
- 10% Kentucky Bluegrass

**SHADOW** 4 lbs/1000 ft<sup>2</sup> | 1.8 kg/100 m<sup>2</sup>

25, 7.5, 3.5 & 1.5 kg bags Germination: 7-21 days

Shadow is very tolerant to shade, e.g. from trees and buildings

- Dense compact growth
- Low input of water & fertilizer
- Includes drought tolerant grasses

- 50% Creeping Red Fescue
- 20% QuickAction Perennial Ryegrass
- 20% Chewings Fescue
- 5% Hard Fescue
- 5% Kentucky Bluegrass

**WATER LESS** 3-4 lbs/1000 ft<sup>2</sup> | 1.5-2 kg/100 m<sup>2</sup>

25, 7.5, 3.5 & 1.5 kg bags Germination: 7-21 days

Deep roots maximize water intake - even during drought

- Highly drought tolerant
- Easy to maintain
- Less water in first phases of development

- 40% Creeping Red Fescue
- 20% Hard Fescue
- 20% Perennial Ryegrass
- 20% Kentucky Bluegrass

## NATIVE SEED

DLF OFFERS A WIDE SELECTION OF WILDFLOWER, FORAGE, AND NATIVE SPECIES FOR ALL REGIONS OF CANADA AND THE U.S. WE CAN CUSTOM BLEND TO YOUR SITE SPECIFICATIONS AND SHIP ANYWHERE IN CANADA. PLEASE ASK FOR OUR NATIVE SEED GUIDE!





# THE NATURAL NITROGEN FIXER FOR SUSTAINABLE TURF MANAGEMENT

## **MICROCLOVER® MAKES TURF MANAGEMENT EASIER**

Microclover® is an ideal component in turf mixtures. It grows low between your turf plants, while supplying your turf with all the nitrogen it needs. Microclover® blends in well, providing a dense, uniform appearance, and a more drought-tolerant turf that stays green longer.

## **SUSTAINABLE TURF WITH LESS INPUT**

Legumes have a natural ability to fix nitrogen from the air. To make the most of this ability for professional turf managers, we have developed a unique small leaved Microclover®. Microclover® can generate as much as 180 kg N per ha per year. It provides a natural route to nitrogen-fixing that can significantly re-duce your need of fertilizer.

## **INCREASE THE WEAR-TOLERANCE OF YOUR TURF**

The appearance of turf containing Microclover® is superior compared to traditional turf. The nitrogen is available when it is needed without risk of leaching. Given this constant supply of nitrogen, your turf thrives providing you with better wear tolerance. It improves the performance of even the highest-ranking, wear-tolerant varieties.

## **BETTER VISUAL APPEARANCE WITH MICROCLOVER®**

The constant flow of nitrogen keeps the turf green and healthy. At the same time, the competitiveness of Microclover® plays its part by quickly filling gaps to lock out weeds. Microclover® also weaves its stolons into the turf, spreading and integrating evenly for a harmonious visual look. The versatility of Microclover® is good for all types of turf.



# COMMON TURF PROBLEMS



## BROWN PATCH (RHIZOCTONIA BLIGHT)

Circular patches of discoloured turf with a 'smoke ring' of gray or purple that disappear later in the day during hot-weather. Avoid excessive use of nitrogen before hot weather and eliminate thatch build-up.



## DOLLAR SPOT

Thrives in high humidity with dry soil. Straw coloured circles and faint cobwebby growth visible in dew coloured grass. Fertilize and water regularly. Use fungicide as necessary. Avoid watering in late afternoon/evening.



## EUROPEAN CHAFFER

One generation per year. Over-winters as larvae in the soil below the frost line. Larvae will migrate closer to the soil surface in April to mid-May to feed on plant roots. Larvae pupate in mid-May to mid-June.



## EUROPEAN CRANE FLY

Larvae known as leatherjackets. Present beginning of October through August. In fall and early spring, larvae feed on top of thatch and leaf blades. In late spring, larger instars live in soil 1-3cm and feed at night.



## PYTHIUM ROOT ROT

Irregular chlorotic, yellow/orange patches, discolor, or thin turf. Roots look water-soaked/rotted or show significant reduction in mass/root hair production. Occurs in cool or heat, especially in wet soil or with stress.



## RUST

In hot and humid conditions, fungus produces orange pustules on leaf blades giving turf an orange appearance. Control with adequate fertilization and watering. Remove clippings when mowing.

# COMMON TURF PROBLEMS



## SUMMER PATCH

Emerges in hot, humid or wet weather in stressed turf. Establish disease resistant grass, aerate and assure good drainage. Use slow-release nitrogen fertilizer and deep irrigation.



## BILLBUGS

Results in small, dead patches. When turf is pulled up, stalks break easily, are hollowed out or packed with sawdust. Hard shells are resistant to insecticide. Avoid with insect resistant seed blends.



## CHINCH BUGS

Larvae suck the plant juices from grass, producing yellow patches. To diagnose, spread grass and look for small red and black bugs. Regular watering often eliminates chinch bugs.



## DOG SPOTS

Brown circles that resemble dollar spot or brown patch. Caused by dog urine. Heavy watering will dilute excess salts. Overseeding may be necessary.



## DROUGHT/HEAT STRESS

Happens during prolonged hot weather and the surface soil hardens making moisture penetration difficult. Use a wetting agent or surfactant to break down the barriers. Water 4" per week to minimize damage.



## WEAR & TEAR FROM PLAY

Compacted soil and bare spots. Aerate and reseed with blends designed to withstand high traffic and wear.

# MIX SELECTION GUIDE

	ALL PURPOSE	SHADE MIX	LOW MAINTENANCE	QUICK ESTABLISHMENT
CAMPUS GREEN	✓			
ECO TURF		✓	✓	
FUTURA 3000				✓
FUTURA BLUE				✓
GREENFIELDS	✓		✓	✓
MTO	✓		✓	✓
PERFECTION	✓			
ULTRA SHADE		✓		
VAL-U-GREEN	✓			✓
TURFLINE® SUNSHINE	✓			
TURFLINE® TURBO	✓			✓
TURFLINE® SHADOW	✓	✓		
TURFLINE® WATER LESS	✓	✓	✓	

# SPECIES CHARACTERISTICS

	GERM/DAYS	SHADE	ESTABLISHMENT	DROUGHT	LEAF
KENTUCKY BLUEGRASS	8-14	Poor/Good	Moderate	Good	Moderate/Fine
PERENNIAL RYEGRASS	7-14	Poor/Moderate	Very Fast	Good	Fine
CREEPING RED FESCUE	10-14	Excellent	Moderate/Fast	Good	Moderate/Fine
CHEWINGS FESCUE	10-14	Excellent	Moderate/Fast	Good/Excellent	Fine
HARD/SHEEPS FESCUE	14-20	Excellent	Slow/Moderate	Excellent	Fine
TALL FESCUE	10-14	Excellent	Moderate	Excellent	Moderate/Coarse
CREEPING BENTGRASS	5-10	Poor	Fast	Good	Fine

# LAWN SEED FAQ

## **WHEN TO SEED:**

Seeding can be done May to mid-June however the best time is between late August to September. Overseed in spring and fall for maximum weed control. Expect initial growth for most varieties to begin in 7 days, provided adequate moisture is available and the soil is warm enough and conditions allow for germination.

## **SOIL PREPARATION:**

Lightly rake the soil surface to remove any thatch or debris and to roughen or loosen the soil. The grass seed must have contact with the soil in order to germinate. Do not bury the seed or it could fail to emerge.

## **APPLYING SEED:**

For small areas, apply by hand. For larger areas, use a fertilizer spreader and distribute seed evenly in two directions. Rake lightly for good seed soil contact.

## **OVERSEEDING:**

A thick, healthy lawn is the best defense against weeds, disease drought and insect damage. Overseeding can quickly repair a lawn that is thin and patchy and helps to crowd out weeds.

## **WATERING:**

Keep newly seeded areas moist for first 3-4 weeks. Do not let the soil dry out or water to pool. Choose drought tolerant varieties and mixes whenever possible.

## **FERTILIZER:**

Apply fertilizer every 4-6 weeks during growing season.

## **MOWING:**

First mowing at 3-6 weeks or when grass height is 2-3 inches.





#### **ONTARIO**

1 Greenfield Road, Box 304, Lindsay, ON K9V 4S3  
P (705) 878-9240 1-800-661-GROW (4769)  
F (705) 878-9249 Email: info@pickseed.com

#### **QUÉBEC**

4155 rue Lesage, St-Hyacinthe, QC J2T 5K1  
P (450) 799-4586 1-800-567-7425  
F (450) 799-1026

#### **MANITOBA**

Box 4, Group 200, RR#2  
1884 Brookside Blvd., Winnipeg, MB R3C 2E6  
P (204) 633-0088 1-800-263-7425  
F (204) 694-1690

#### **SASKATCHEWAN**

1920 Highway 35 S, Airport Road W, PO Box 100, Nipawin SK S0E 1E0  
P (306) 862-9819 F (306) 862-2480

#### **ALBERTA**

11239 186 St. NW, Edmonton, AB T5S 2T7  
P (780) 464-0350 1-800-265-3925  
F (780) 464-0305

#### **BRITISH COLUMBIA**

Box 2407, 2156 Mile 2, Alaska Hwy, Dawson Creek, BC V1G 4T9  
P (250) 782-3040  
F (250) 782-2252