



WESTERN CANADA

PRODUCT GUIDE

EDITION 3

SEEDS & SCIENCE

2025



PATRICK REED

*Vice President of Sales,
DLF North America*

At DLF we appreciate how important of a decision selecting seed can be to the success of your operation. Our customers have a broad range of needs, and we constantly strive to research and develop innovative products to meet these needs. Beyond the seed, we provide exceptional local service and agronomic support to our partners and customers, helping to maximize your seed investment and the value from working with us. We care about the land, the environment and the people who use our products, and you can see this in everything we do. Our entire team at DLF is committed to get out and do what we do best, deliver best in class products and support to our customers. We look forward to working with you - please reach out to our DLF team for more information!

GOOD SEED, GOOD HARVEST

The founding mission of DLF was to supply high-quality seeds for sustainable agricultural production. A hundred years later, our call to action remains the same: to develop seeds for a green future by ensuring greater quality and productivity in the field with fewer inputs.

DLF's first seed trial site was established on a 7-acre farm in Denmark in 1911. Plant breeding commenced shortly after a

small barn was constructed on the property, and it's been the cornerstone of our company ever since. Plant breeding involves evaluating, selecting and testing multiple generations of plant material to create new and better varieties. A new variety typically takes 7-10 years to develop, so researchers must always be looking to the future.



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

SUSTAINABILITY IS ROOTED IN OUR WORK

Amidst increasing pressure on agricultural production and green spaces, the imperative for sustainable solutions has never been more urgent. As climate extremes become more common, we must not only adapt but make meaningful contributions to reducing our environmental footprint.

With a globally integrated value chain, DLF is championing a sustainable path forward. From reducing global emissions to preserving ecosystems, advancing crop systems and promoting biodiversity, we are pioneering new approaches and driving positive change across the agricultural landscape through science.

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GROWING WITH DLF

Our customers demand a lot from their seed: yield, forage quality, winterhardness and disease resistance. That is why we invest heavily in global R&D and our field trials. Roughly 11% (1 in 9) of DLF's over 2,000 worldwide employees are involved in breeding programs and product development. For more than 30 years, DLF breeding and product development has optimized forage grass and legume varieties ideal to local climatic and environmental conditions to seed the green future. We aim to deliver sustainable solutions with the potential to increase productivity of land and livestock, sequester carbon and reduce emissions in the supply chain.



THE WORLD OF DLF



"The global population is growing exponentially, and the demand for efficient and sustainable products is higher than ever. We at DLF take pride and a great focus in our advanced Product Development program to ensure only the best products are released to meet the needs of our growers world-wide.

Our continuous analyses and head to head comparisons of current and future products ensure that all varieties released are superior on both an agronomy and yield level. Backed by years of agronomy, forage quality, and yield data, we find successful products for all soil conditions and environments around the world. It is inspirational and rewarding to know that the DLF R&D team is working towards discovering suitable products for farmers everywhere!

Cody Armstrong - Field Trial Manager, Canada





OVER THE PAST 9 YEARS WE HAVE HARVESTED

94,749
FORAGE PLOTS ACROSS CANADA!

TRIAL DESIGN

- DLF is home to the only proprietary, replicated forage trials across Canada
- Each plot in a trial is 3 feet wide by 17 feet long
- Each trial has 4 randomized replications of all varieties
- Each trial runs for three production years

TESTING

DLF's Canadian Product Development provides the ability to select varieties that have improved disease resistance, superior yield, improved winterhardiness, faster regrowth and high forage quality based on true head to head comparisons!



Trial showing comparisons of orchardgrass winterhardiness - Port Hope ON



Trial showing comparisons of alfalfa regrowth - Lindsay ON

HARVESTING

- Using DLF's custom RCI Engineering 36A forage harvester, Legume trials are harvested 3-4 times and Grass trials are harvested 2-3 times per season



DLF's custom RCI Engineering 36A forage harvester in Lindsay ON

NEW

INTRODUCING **FORAGE FIRST®**



FORAGE FIRST®
BY DLF

WHEN YIELD & QUALITY MATTER™

Yield and quality matter. But there's more. Our goal is to provide a higher standard of forage to maximize ROI – while keeping your wallet in mind. We take pride in delivering proven products that increase the bottom line at a good price.

ALWAYS INNOVATING

As a forage leader for many years, we've always worked hard to improve. Continual research and development of new varieties ensures the right balance of protein and feed quality, recovery and grazability to suit each animal and operation. Every top-performing variety is tested in many trials before being put to use. From the latest genetics to new treatments and technologies, we have you covered.

FORAGE WITH MORE PROFIT POTENTIAL

Walk into a field planted with Forage First® forage seed and you'll instantly notice lush, productive fields. That means healthy gains for your animals and land that lives up to its potential.

MAXIMUM FLEXIBILITY

We provide a diverse selection of products for producing high quality forage for your livestock and dairy operation. Our versatile portfolio offers a variety of proven products to fit each unique operation and was created with flexibility and ease of management in mind.



NEW

DLF FIBER ENERGY

WHEN SUSTAINABLE FARMING GENERATES HIGHER PROFIT

Years of breeding and selection of only the best forage candidates have increased the overall digestibility of our forages, and only products with the highest fiber digestibility are honored with a DLF Fiber Energy badge.

- The global demand for meat and milk is high, and as the world's population increases exponentially, the demand of tomorrow will be even higher.
- Through our breeding program, we developed DLF varieties with high cell wall digestibility – we call them DLF Fiber Energy varieties. These perfected DLF varieties give you more forage energy and a higher milk yield or/meat production from your livestock.
- Each animal eats the same amount of grass but with a higher digestibility, the feed uptake increases, and provides more energy to the animal.
- 1% increase in fibre digestibility (dNDF) = +0.25 litres milk per cow per day



HIGHER DIGESTIBILITY = HIGHER FEED INTAKE

- Livestock perform better under maximum forage yield, digestibility and protein content.
- Our top products improve dry matter intake and boost milk or meat yields.
- It is the surest way to maximize output without increasing input costs.



READY FOR THE NEW GENERATION OF DISEASE RESISTANT ALFALFA?

DLF is proud to lead the Canadian market with varieties of conventional and HarvXtra® alfalfa with enhanced multi-race Aphanomyces* and Anthracnose** disease resistance.

WHAT IS APHANOMYCES ROOT ROT?

SYMPTOMS:

- Stunted growth
- Yellowing cotyledons
- Yellowing/purpling of upper leaflets
- Grey-brown coloured roots and stems
- May resemble nutrient deficiency/herbicide damage

MANAGEMENT:

- Plant certified DLF varieties with enhanced multi-race Aphanomyces and Anthracnose disease resistance
- Fungicide seed treatments are not a solution for controlling this disease



*Includes race 1 and race 2 protection. In addition, a novel source of Aphanomyces resistance in the greenhouse and field that visibly outperforms unrelated varieties on the market when grown under natural or artificial disease has been identified. Researchers have been working cooperatively with universities collecting and testing the most virulent strains of Aphanomyces to help determine the level of resistance to this novel source.



“ I seeded 150 acres of the HayPro T10 and I’m very happy with the results so far. Being my first time seeding grass, I relied heavily on guidance from my DLF rep who assisted me in each step including blend selection, seeding rates and depth, cover crop selection and post-emergence support. The germination was excellent, and we plan to incorporate more DLF hay blends into our feed production in the years to come.

**Grayden Kay
Rockytop Cattle Co.**



FORAGE VARIETIES

ECLIPSE ALFALFA

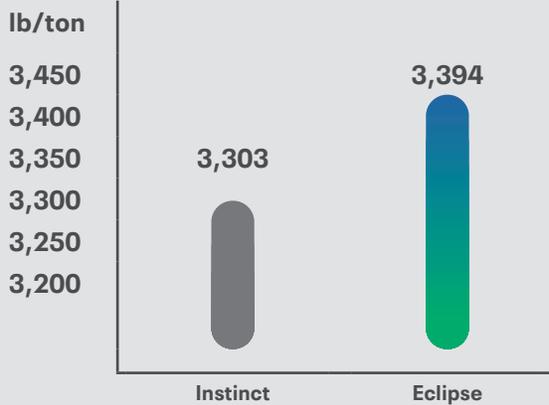
SELECTED FOR: Disease Resistance

Forage Yield

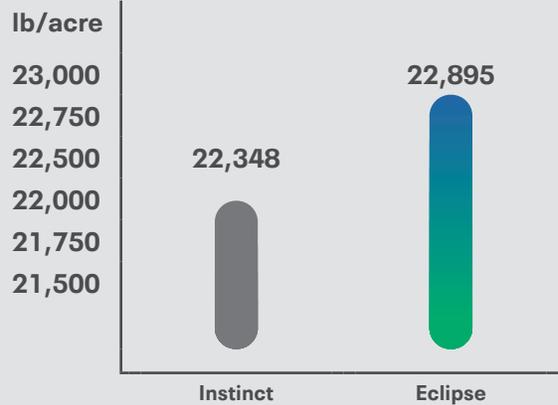
Forage Quality

Fall Dormancy 4.4 | Winter Survival 1.6

3% MORE MILK PER TON



MORE MILK PER ACRE



Locations: Ontario: Lindsay, Port Hope

Milk Per Ton & Milk Per Acre values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006

YIELD COMPARISONS

	Harvest Years	# Of Cuts	# of Station Years	Yield (Kg/Ha)	Yield (T/Acre)	% of Trial Mean
ECLIPSE	2016-2023	153	41	12479	5.05	106
INSTINCT	2016-2023	153	41	11770	4.76	100

Locations: Lindsay, ON, Port Hope, ON, Josephburg AB, Portage la Prairie, MB, Nampa, ID, Touchet, WA, Cannon Fall, MN, Boone, IA, Mt Joy, PA



NEW

CATALYST ALFALFA

SELECTED FOR:



Disease Resistance



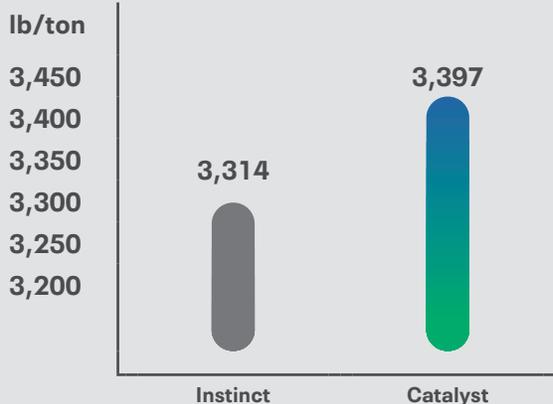
Forage Yield



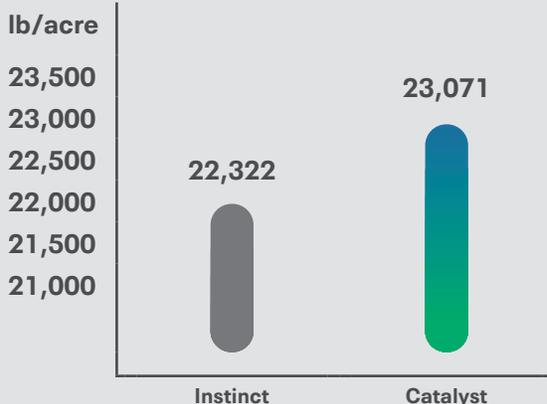
Forage Quality

Fall Dormancy 3.4 | Winter Survival 1.0

3% MORE MILK PER TON



MORE MILK PER ACRE



Locations: Ontario: Lindsay, Port Hope

Milk Per Ton & Milk Per Acre values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006

YIELD COMPARISONS

	Harvest Years	# Of Cuts	# of Station Years	Yield (Kg/Ha)	Yield (T/Acre)	% of Trial Mean
CATALYST	2020-2023	45	22	13094	5.30	105
INSTINCT	2020-2023	45	22	12487	5.05	100

Locations: Lindsay, ON, Port Hope, ON, Josephburg AB, Portage la Prairie, MB, Nampa, ID, Touchet, WA, Cannon Fall, MN, Boone, IA, Mt Joy, PA

INSTINCT ALFALFA

SELECTED FOR:



Disease Resistance



Forage Yield



Forage Quality

Fall Dormancy 4.4 | Winter Survival 1.5

GRASS & LEGUME VARIETIES

CASCADE NEW
Alfalfa

FALL DORMANCY 2.0 CREEPING ROOTED WINTER-HARDINESS

AC GRAZELAND BR
Alfalfa

BLOAT REDUCED WINTER-HARDINESS FORAGE QUALITY

ASSALT ST
Alfalfa

HIGH PH TOLERANCE DISEASE RESISTANCE FORAGE QUALITY

WESTSTAR BLEND
Alfalfa

TRIFOLIATE TYPE FORAGE YIELD FORAGE QUALITY

BULL
Birdsfoot Trefoil

BLOAT REDUCED WINTER-HARDINESS GRAZING TOLERANT

ALTASWEDE
Single Cut Red Clover

SINGLE CUT FORAGE QUALITY RAPID ESTABLISH

VALOR DT NEW
Timothy

EARLY MATURITY DROUGHT TOLERANCE FORAGE QUALITY
 DLF FIBER ENERGY

RICHMOND
Timothy

EARLY MATURITY SPRING VIGOUR FORAGE QUALITY

ENDURANCE
Orchardgrass

MED MATURITY FORAGE YIELD FORAGE QUALITY

ECHELON
Orchardgrass

LATE MATURITY DISEASE RESISTANCE FORAGE QUALITY

CAPTUR
Orchardgrass

VERY LATE MATURITY DISEASE RESISTANCE FORAGE QUALITY
 DLF FIBER ENERGY

KORA
Fescue, Tall

MED-LATE MATURITY DISEASE RESISTANCE SOFT LEAF (VERY HIGH FORAGE QUALITY)
 DLF FIBER ENERGY

HYPERBOLA
Fescue, Meadow

DISEASE RESISTANCE WINTER-HARDINESS FORAGE QUALITY
 DLF FIBER ENERGY

MAHULENA (FESCUE TYPE)
Festulolium

FORAGE YIELD DISEASE RESISTANCE FORAGE QUALITY

DEXTER 1

Perennial Ryegrass



FORAGE
YIELD



EARLY SPRING
GROWTH



FORAGE
QUALITY

YOLANDE

Italian Ryegrass



DIPLOID
TYPE



FORAGE
YIELD



FORAGE
QUALITY

FIRKIN

Italian Ryegrass



TETRAPLOID
TYPE



FORAGE
YIELD



FORAGE
QUALITY

MBA

Bromegrass, Meadow



FORAGE
YIELD



WINTER-
HARDINESS



SEASONAL
GROWTH
PATTERN

SUCCESSION BRAND

Bromegrass, Hybrid



FORAGE
YIELD



WINTER-
HARDINESS



FORAGE
QUALITY

PELLA*

Bromegrass, Smooth



FORAGE
YIELD



WINTER-
HARDINESS



FORAGE
QUALITY

*Variety Registration pending.

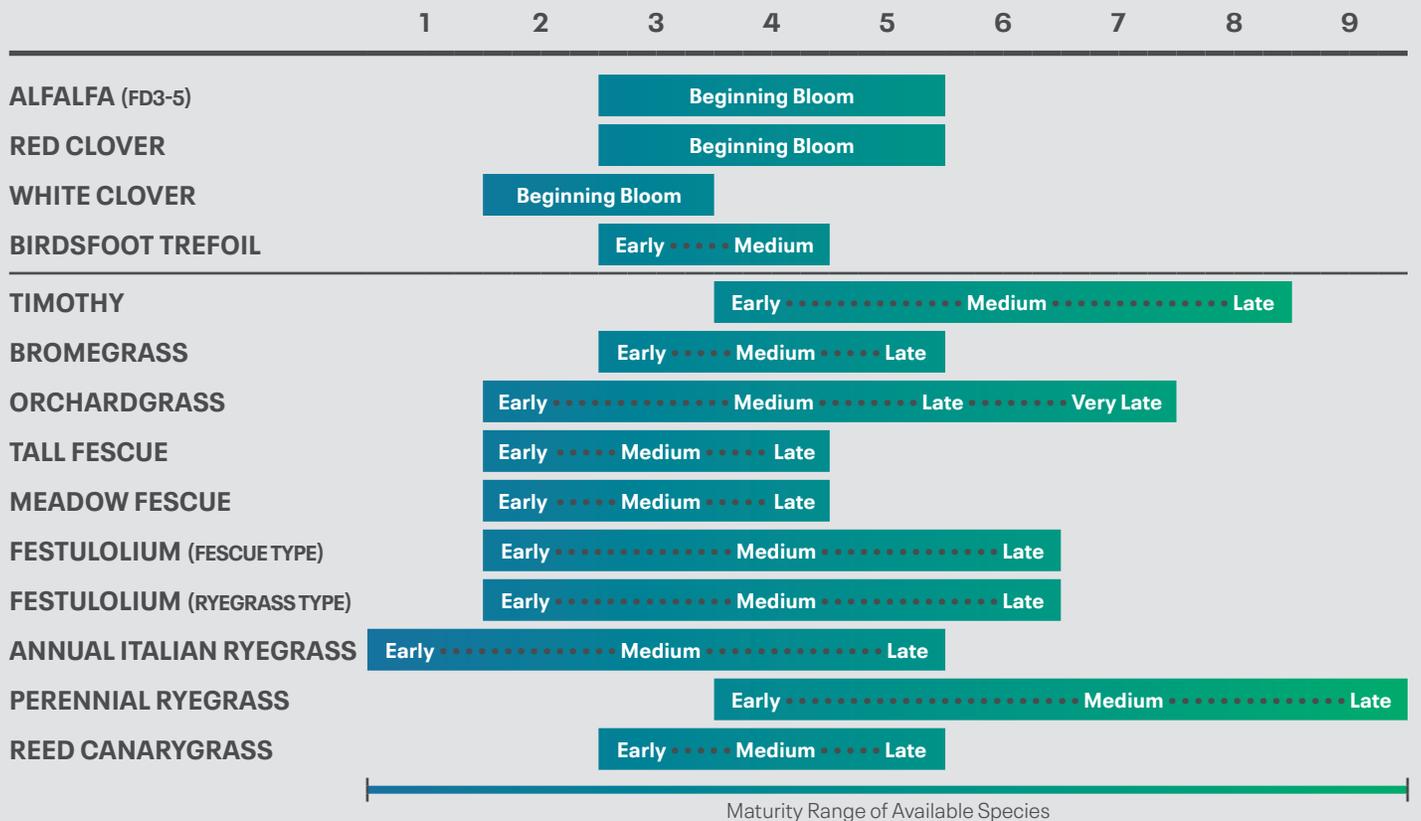
NEW



PROPERTIES OF GRASSES



FORAGE MATURITY MATRIX



XL BRANDS



Represent branded products that provide good value, maximum flexibility, more profit potential and continuous innovation. XL brands contain one or more improved varieties.

NAME	SPECIES	DESCRIPTION	
PREMIUM XL	ALFALFA	• Very good forage yield	• Very good forage quality
RED CARPET XL	RED CLOVER	• Fast establishment	• Multi-cut varieties
ORION XL	LADINO WHITE CLOVER	• Good regrowth following grazing	• Easy to establish
PASTURELAND XL	WHITE CLOVER	• Good regrowth following grazing	• Easy to establish
LOTUS XL	BIRDSFOOT TREFOIL	• Tolerant of poorly drained soils	• Non-bloating legume
TOP TIM XL	TIMOTHY	• Excellent winterhardiness	• Excellent for hay or pasture
HAYMATE XL	ORCHARDGRASS	• Excellent for hay or pasture	• Improved disease resistance
STARGRAZER XL	TALL FESCUE	• Endophyte free	• Can be used for hay or pasture
FUSION XL	FESTULOLIUM	• Very good forage quality	• Very good forage yield
TETRABANA XL	ITALIAN RYEGRASS	• Fast establishment	• Excellent forage yield in seeding year
ENDO-GRAZE XL	PERENNIAL RYEGRASS	• Fast establishment	• Excellent forage quality
BIG TON XL	BROMEGRASS	• Excellent winterhardiness	• Very good forage quality
DEFIANT XL	REED CANARYGRASS	• Can be used for hay, silage or pasture	• Extremely stress tolerant

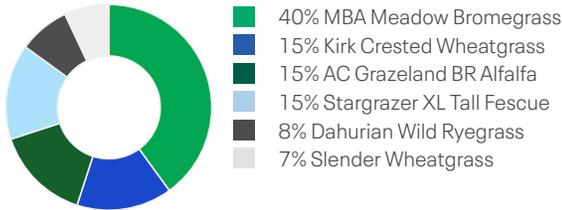


PASTURE MIXTURES

CATTLEMANS

Seed at 6.5 kg (14 lbs) /acre

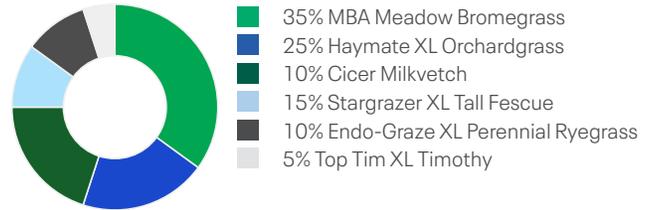
- Ideal grassland pasture
- Quick regrowth
- Good drought tolerance
- Season long growth
- Built for Beef!



STOCKMANS

Seed at 6.5 kg (14 lbs) /acre

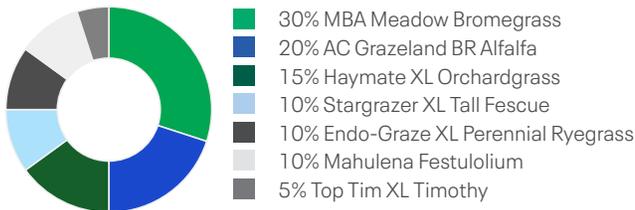
- Widely adaptable
- A well balanced mix
- Non-bloating Cicer Milkvetch utilized to increase quality



PASTUREPRO

Seed at 5.5 kg (13 lbs) /acre

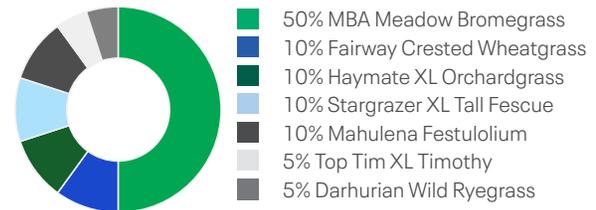
- Widely adaptable
- Highest yielding pasture blend
- Season long performance
- Designed for maximum growth



RANGEPRO

Seed at 6.5 kg (14 lbs) /acre

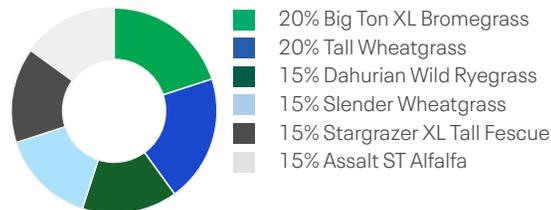
- Long term pasture with no legume
- Adapted to the drier areas of the Prairies



SALTPRO

Seed at 6 kg (14 lbs) /acre

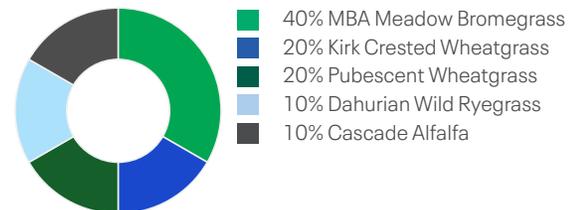
- Formulated for salinity prone pastures



DRYLANDS

Seed at 6.5 kg (14 lbs) /acre

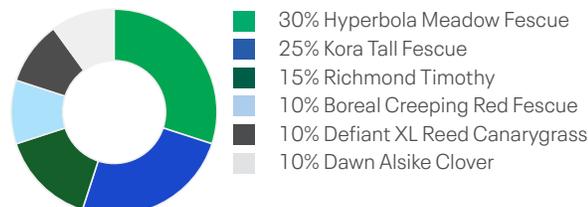
- Use for long term production
- Excellent persistence
- Season long growth



LOWLANDS

Seed at 6 kg (14 lbs) /acre

- Use for long term production
- Excellent persistence
- Season long growth
- Season long performance
- Designed for maximum growth

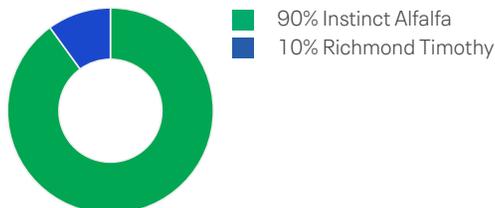


HAY MIXTURES

DAIRYPRO

Seed at 5 kg (12 lbs) /per acre

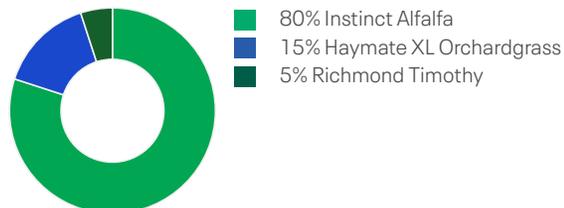
- Highest quality hay
- Custom designed for dairy production needs



HAYPRO T5

Seed at 5.5 kg (13 lbs) /acre

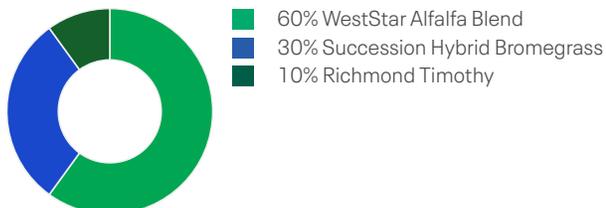
- Rapid establishment with great persistence
- Very adaptable



HAYPRO T10

Seed at 6 kg (13 lbs) /acre

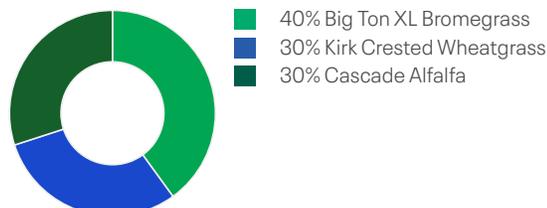
- Highest yielding for regular rotations
- Extremely adaptable with multiple disease resistance



HAYPRO DRY

Seed at 7 kg (15 lbs) /acre

- Great for single-cut hay systems that require fall grazing
- Well suited for dry sandy soils

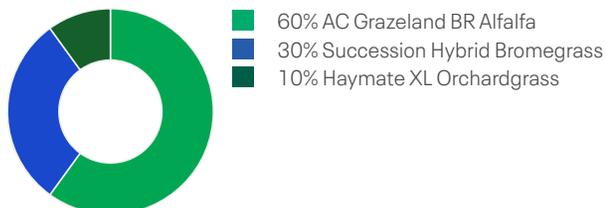


DUAL PURPOSE MIXTURES

HAYGRAZE

Seed at 6 kg (13 lbs) /per acre

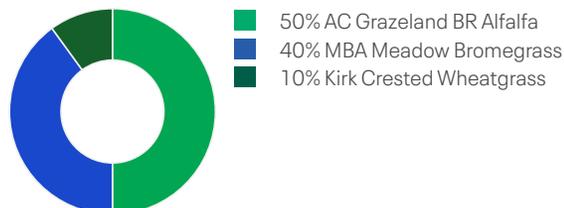
- Rapid regrowth & great quality
- Use as multi-cut hay & still have extra to graze in the fall



HAYGRAZE DRY

Seed at 5 kg (13 lbs) /acre

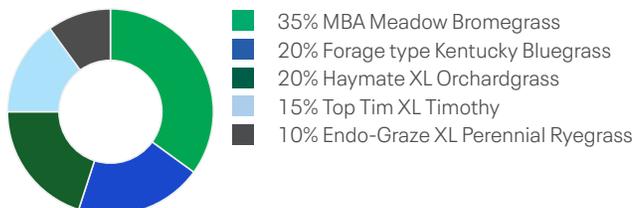
- Superior yield & quality in dry conditions
- Safe against bloat



HORSEMANS

Seed at 7 kg (15 lbs) /acre

- Well balanced
- Excellent Spring, Summer & Fall growth
- Suitable for all acreage ruminants
- Stands up well to heavy grazing



COVER CROPS



THE VALUE OF 1% ORGANIC MATTER

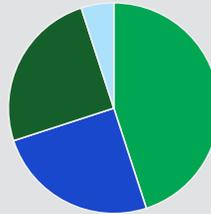
Every 1% increase of Organic Matter raises the soil's water-holding capacity by as much as 27,000 gallons per acre.*

1% OF ORGANIC MATERIAL CONTAINS:

- 10,000 lbs. of Calcium,
- 1,000 lbs. of Nitrogen,
- 100 lbs. of Phosphorus,
- 100 lbs. of Potassium,
- 100 lbs. of Sulfur,
- 0.3-1 inch of Water.*

TAKING CARE OF YOUR BIGGEST RESOURCE ... SOIL

Research to date proves cover crops help in the short term and encouraging soil structure and soil health for decades to come.



- 45% Minerals (Clay, Sand, Etc.)
- 25% Air
- 25% Water
- 1-5% Organic
 - 85% Humus
 - 10% Roots
 - 5% Living Organisms

*Ohio State University, 2014.



DETERMINE YOUR GOAL



EASY ESTABLISH



P&K CYCLING



POLLINATOR BENEFIT



COMPACTION ALLEVIATION



WEED SUPPRESSION



BIOMASS PRODUCTION



EROSION CONTROL



NITROGEN FIXER

Planting Time*

Seeding - Drill (lbs/acre)

LEGUMES

1 = Poor 2 = Average 3 = Good 4 = Very Good 5 = Excellent

Species	EASY ESTABLISH	P&K CYCLING	POLLINATOR BENEFIT	COMPACTION ALLEVIATION	WEED SUPPRESSION	BIOMASS PRODUCTION	EROSION CONTROL	NITROGEN FIXER	Planting Time*	Seeding - Drill (lbs/acre)
Crimson Clover	4	3	3	2	4	3	3	FIXER	SG,LS	10 - 15
Red Clover	3	4	4	4	4	4	3	FIXER	SG,LS,F	8 - 12
Berseem Clover	4	4	3	2	4	3	4	FIXER	SG,LS	8 - 20
Winter Peas	4	2	4	2	4	3	3	FIXER	SG,LS	75 - 120
Hairy Vetch	3	4	5	3	4	4	3	FIXER	LS, F	15 - 30
Sunn Hemp	3	3	4	2	4	5	3	FIXER	SR,LS	15

NON LEGUMES

1 = Poor 2 = Average 3 = Good 4 = Very Good 5 = Excellent

Species	EASY ESTABLISH	P&K CYCLING	POLLINATOR BENEFIT	COMPACTION ALLEVIATION	WEED SUPPRESSION	BIOMASS PRODUCTION	EROSION CONTROL	NITROGEN FIXER	Planting Time*	Seeding - Drill (lbs/acre)
Italian Ryegrass	5	3	2	5	5	3	5	SCAVENGER	SG,LS,F	15 - 30
Winter (Cereal) Rye	4	4	1	4	5	4	5	SCAVENGER	LS,F	30 - 50
Winter Triticale	4	4	1	2	4	5	4	SCAVENGER	LS,F	30 - 50
Spring Oats	4	3	1	2	4	4	4	SCAVENGER	SG,LS	30 - 50
Pearl Millet	5	3	3	3	5	5	4	SCAVENGER	SR,LS	20 - 30
Sorghum x Sudangrass	4	3	3	4	5	5	4	SCAVENGER	SR	25 - 70
Buckwheat	5	5	5	3	5	4	2	SCAVENGER	SG,SR	40 - 55

BRASSICAS

1 = Poor 2 = Average 3 = Good 4 = Very Good 5 = Excellent

Species	EASY ESTABLISH	P&K CYCLING	POLLINATOR BENEFIT	COMPACTION ALLEVIATION	WEED SUPPRESSION	BIOMASS PRODUCTION	EROSION CONTROL	NITROGEN FIXER	Planting Time*	Seeding - Drill (lbs/acre)
Soil First® Radish	5	4	2	5	5	4	4	SCAVENGER	LS	3 - 8
Turnip	5	3	3	3	5	4	3	SCAVENGER	LS	2 - 6
Rapeseed	5	4	4	5	3	4	4	SCAVENGER	SG,LS	4 - 6
Braco Mustard	5	3	5	4	3	4	3	SCAVENGER	SG,LS	6 - 15
Hybrid Brassica	5	3	3	3	4	4	4	SCAVENGER	SR,LS	4 - 8

*SG = Spring SR = Summer LS = Late Summer F = Fall



CONTACT OUR SALES TEAM FOR ADDITIONAL MIX RECOMMENDATIONS!

SPECIES ADAPTATION

Species	Use	Longevity Short • Long •••••	Winter- Hardness Poor • Excellent •••••	Drought Tolerance Low • High •••••	Flood Tolerance Low • High •••••	Salinity Tolerance Low • High •••••	Alkalinity Tolerance Low • High •••••	Acidity Tolerance Low • High •••••	# Seeds Per Kg	# Seeds Per Lb	Growing Period
LEGUMES											
Alfalfa	Hay & Pasture	•••••	•••	••••	•	••	••••	•	440,000	200,000	Spring - Fall
Alsike Clover	Hay & Pasture	•	••	•	•••	•••	••	•••	1,540,000	700,000	Spring
Birdsfoot Trefoil	Pasture	•••••	•••	•••	•••••	••	•••	••••	825,000	375,000	Spring - Fall
Cicer Milkvetch	Pasture	•••••	•••	••••	•	•••	•••	•••	286,000	130,000	Late Spring - Fall
Red Clover	Hay & Pasture	•	•	•	•••••	•	•••	•••	605,000	275,000	Spring
Sainfoin	Pasture	•••••	••	•••••	•	•	•••••	•	66,000	30,000	Spring - Summer
Sweet Clover	Hay & Pasture	• (2 Years)	••	••••	•	•••	•••	•	572,000	260,000	Spring of 2nd Yr
TAME GRASSES											
Annual (Italian) Ryegrass	Hay & Pasture	• (Ann. 1 Yr)	•	•	•••••	•	•••	•••	507,000	230,000	Spring - Fall
Creeping Foxtail	Pasture	•••••	•••	•	•••••	•••	•••	•••	1,657,000	753,000	Early Spring - Fall
Creeping Red Fescue	Pasture Lawn	•••••	•••••	•••	•••	•	•••	•••	1,353,000	615,000	Spring - Fall
Crested Wheatgrass	Hay & Pasture	•••••	•••••	••••	•	••	••••	•	485,000	220,000	Early Spring
Dahurian Wildrye	Pasture	•	•••	•••	•	•••••	•••	•	175,000	80,000	Spring - Fall
Intermediate Ryegrass	Hay & Pasture	••	•••	•••	••••• (Low - High)	••	•••	•	194,000	88,000	Late Spring - Mid Summer
Festulolium (Fescue Type)	Hay & Pasture	•••••	••••	••	•••	•••	•••	•••	500,000	227,000	Late Spring - Fall
Festulolium (Ryegrass Type)	Hay & Pasture	•	•	•••	••••	••	•••	••	194,000	88,000	Late Spring - Fall
Kentucky Bluegrass	Pasture Lawn	•••••	•••••	•••	•••	•	•	•	4,800,000	2,182,000	Spring - Fall
Meadow Bromegrass	Hay & Pasture	••	•••	•••••	•	•	•••	•••	176,000	80,000	Early Spring - Late Summer
Meadow Fescue	Pasture	•••••	•••	•••	•••••	••	•	•••	506,000	230,000	Early Spring - Late Fall
Meadow Foxtail	Pasture	•	•••	•	•••••	•	•••	•••••	1,270,000	577,000	Early Spring - Late Fall
Orchardgrass	Hay & Pasture	•••	••	•••	••	•	•	•••	1,439,000	654,000	Early Spring - Fall
Pubescent Wheatgrass	Hay & Pasture	•••••	•••	••••	•	••	•••	•	220,000	100,000	Spring - Fall
Reed Canarygrass	Hay & Pasture	•••••	•••	•••	••••• (Very High)	•	•••	•••	1,175,000	534,000	Spring - Summer
Russian Wildrye	Pasture	•••••	•••••	••••• (Very High)	•	••••• (Very High)	•••••	•••••	385,000	175,000	Spring - Mid Summer
Slender Wheatgrass	Hay & Pasture	•	•••	•••	•	•••••	•••••	•	352,000	160,000	Mid Spring - Mid Summer
Smooth Bromegrass	Hay & Pasture	•••••	•••••	•••	•••	••	•••	•••	300,000	136,000	Mid Spring - Mid Summer
Tall Fescue	Pasture	•••••	•••	••••	••••	•••••	•••••	••••• (Very High)	500,000	227,000	Late Spring - Fall
Tall Wheatgrass	Hay & Pasture	•••••	•••••	•	•••••	••••• (Very High)	••	••	174,000	79,000	Late Spring - Mid Summer
Timothy	Hay & Pasture	•••	•••	•	•••••	•	•	•••••	2,710,000	1,232,000	Spring - Summer

& COMPARISONS

Preferred Climate & Growing Conditions	Positive Features	Negative Features	Plant Type
Widely adapted to most prairie soils but will not Bloat hazard. Needs good drainage. Tolerates periodic flooding.	Easy to establish. High yields, rapid regrowth. Highest nutrition in forages.	Bloat hazard. Needs good drainage.	Rhizomatous, Branch, Tap, Creeping Rooted
Prefers low-lying moist areas.	Easy establishment. Tolerant to poor drainage and acid soils.	Bloat hazard. Short life span and low yield.	Branched
Prefers moist areas.	Non bloating. Reseeds itself. Feed value similar to alfalfa.	Poor seedling vigour. Poor competitor and lower yielding.	Tap Rooted with Branches
Widely adapted but exhibits its creeping habit best on more coarse textured soils.	Non bloating. Hardier than alfalfa. Very aggressive once established	Slow to establish. Hard seeds. Slow regrowth after grazing.	Creeping Rooted
Best suited to humid areas with moderate temperatures.	Easy establishment. Tolerates wetter and more acid soils than alfalfa.	Bloat hazard. Short life span.	Tap Rooted with Side Branches
Best on brown and dark brown soil areas. In very dry areas it yields poorly. Does well on thin gravelly soils.	Non bloating. More drought and cold tolerant than alfalfa.	Poor regrowth. Slow to establish.	Tap Rooted
Especially productive on fertile soils.	Widely adapted. Good for soil and drainage improvement.	Low palatability unless harvested early. Self seeds.	Tap Rooted
Produces best on soils of medium to high fertility and grows best with adequate moisture.	Easy to establish. Very palatable. Good hay or silage or companion crop.	Does not withstand drought or hot weather.	Bunch Grass
Adapted to areas where Reed Canarygrass grows well and soil moisture is continually available.	Suitable for erosion control. Spreads rapidly once it is established.	Light, fluffy seed. Slow establishment. Poor competition during first six weeks.	Sod Forming
Does best in high rainfall areas. Will grow in wide range of soil types.	Tolerates close grazing and areas too dry for timothy. Grows well late summer-freeze up and retains good quality.	High moisture requirement. Vulnerable to Crown Rot, Root Rots and Snow Mold.	Sod Forming
Adapted to dry areas with good soils but will also establish on lighter soils	Excellent for spring pasture. Easy to grow. Withstands close grazing and trampling.	Does not tolerate cool, wet soils. Poor quality after heading out.	Bunch Grass
Adapted to all soil zones.	Highly competitive and quick to establish.	Short lived.	Bunch Grass
Well drained soils with ample moisture.	Easy to establish. Good haygrass with alfalfa. Out yields CWG and smooth brome grass.	Less winterhardy and drought tolerant than crested wheatgrass.	Sod Forming
Produces best on soils of medium to high fertility and grows best with adequate moisture	Easy to Establish. Very Palatable. Good emergency forage option.	Does not withstand drought or hot weather, short lived.	Bunch Grass
Can be grown on a wide range of soils.	Suitable for grazing. Good regrowth and disease resistance.	Waxy leaf makes it hard to dry down for hay	Sod Forming
Prefers cool and humid. Grows on most soils.	Tolerates close and frequent defoliation. Useful in erosion control.	Dormant in hot, dry weather. Slow establish. High moisture needed. Lower yielding.	Sod Forming
Grows well on most soils where smooth brome grass does well.	Very palatable. Good after grazing or cutting. Less aggressive than smooth brome grass.	Mainly a pasture grass. Difficult to put up as hay when in pure stand.	Bunch Grass
Prefers soil with good moisture and good drainage.	Best for pasture. Good fall pasture - stays green late in fall.	Susceptible to heavy grazing. Slow regrowth. Susceptible to leaf rust.	Bunch Grass
Prefers cool moist conditions. High water table.	Earliest grass to grow in spring. Very palatable when young. Reseeds itself.	Light, fluffy seed. Susceptible to drought. Seeds need to be coated for seeding.	Bunch Grass
Prefers moist conditions. Sandy soils are too dry for good growth unless in high rainfall areas.	Easy to establish. Very palatable. Fast regrowth. Makes good hay with alfalfa.	Needs high nitrogen. Moderately winterhardy. Subject to overgrazing.	Bunch Grass
Widely adaptable with respect to precipitation, temperature, elevation and low fertility soil.	Able to stay green into summer months. Hardier than intermediate wheatgrass.	Strong creeping roots get sod bound and result in unproductive stand in a few years.	Sod Forming
Moist cool climate. Poorly drained areas subject to temporary flooding.	Grows well in wet areas. Withstands flooding for up to two months. Grows tall, good yield.	Slow to establish. Nutrition and palatability low when mature.	Sod Forming
Can be grown on a wide range of soils. Most productive on fertile loams.	Salt tolerant, early growth and good for winter grazing.	Poor seedling vigour. Slow to establish.	Bunch Grass
Adapted to wide range of soils but prefers sandy loams.	High salinity tolerance. Cures well on stem. Good seedling vigour. Establishes fast.	Less competitive and persistent than other wheatgrasses. Not tolerant to heavy grazing.	Bunch Grass
Well adapted to all soil zones.	Winterhardy. Good yield. Palatable even at mature growth stage.	Long, light seed is difficult to sow. Becomes sod bound. Slow regrowth.	Sod Forming
Variety of soils. Does well on wet, poorly drained soils.	Suitable for late fall grazing or stock piling. Easy to establish. Good regrowth.	Slow cure when used for hay. Starts growing later than many other grasses in spring.	Bunch Grass
Adapted to saline and imperfectly drained alkali soils.	Salt tolerant. High nutrition in early heading stage.	Slow to establish. Poor vigour and competitive ability. Coarse when mature.	Bunch Grass
Cool moist areas with good drainage.	Low seed cost. Easily established. Excellent horse hay/alfalfa blend. Suitable export.	Susceptible to heat and low moisture conditions. Low palatability at maturity.	Bunch Grass

CORN HYBRIDS

CORN TRAITS

Many grain and silage hybrids contain advanced corn traits that provide a broad spectrum of above and below ground insect and weed control. The chart on this page is designed to help you choose the right corn hybrid to meet your needs.

PROPERTIES OF CORN TRAITS

	Above Ground Pests					Below Ground Pests		Weed Control	Refuge		
	European Corn Borer	Southwestern Corn Borer	Corn Earworm	Fall Armyworm	Western Bean Cutworm	Black cutworm	Northern Corn Rootworm	Western Corn Rootworm	Roundup Ready®	LibertyLink®	Minimum Refuge Requirement
											
	•••	•••	••	•••		•	••	••	•	•	5% RIB*
	••	••	••	••					•		5% RIB*
									•		0%

• Single Mode of Action •• Dual Mode of Action ••• Triple Mode of Action

*SmartStax® RIB Complete® and VT Double PRO® RIB Complete® designation contain a blend of 95 traited corn seed and 5 percent refuge (non B.t.) corn seed that farmers can plant across their entire field. Farmers who plant RIB Complete® products will no longer need to plant a separate, structured refuge for insect pests on those given fields.



Bayer Company is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready®, Roundup®, SmartStax® and VT Double PRO® are trademarks of Bayer Group, Bayer Canada ULC licensee. LibertyLink® and the Water Droplet Design are trademarks of BASF. Used under license. Herculex® is a registered trademark of Dow AgroSciences LLC. Used under license.



Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.

PROTECT YOUR CORN SEED'S PERFORMANCE

MAXIMIZE YOUR CORN'S POTENTIAL WITH SUPERIOR PROTECTION & GREATER FLEXIBILITY. CHOOSE THE ACCELERON® PACKAGE THAT'S RIGHT FOR YOUR FIELD.

PROTECTION

SEED APPLIED SOLUTION



FUNGICIDE

Excellent control of soil & seed borne disease including Pythium, Rhizoctonia, Fusarium, Phomopsis, Rhizopus, Aspergillus & Penicillium



INSECTICIDE*

Protection from early season pests such as wireworm, white grubs & seed corn maggots



*Diamides are a unique class of chemistry that offers an alternative for growers looking for newer, non-neonicotinoid chemistries to add into their programs. Active ingredients in this class of chemistry work by activating ryanodine receptors in insect pests, which results in unregulated calcium release. The calcium stores are then depleted, leading to muscle paralysis and eventual death.

FOR TREATMENT OPTIONS AND AVAILABILITY, SEE YOUR RETAILER OR VISIT ACCELERONSAS.CA.

FOR CORN, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC is a combination of fluoxastrobin, prothioconazole, and metalaxyl. STANDARD is a combination of fluoxastrobin, prothioconazole, metalaxyl and insecticide of either clothianidin or tetraniliprole.



ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Acceleron® is a trademark of Bayer Group.

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HYBRID CORN: 69 - 83 DAYS TO MATURITY

Variety	Heat Units	Relative Maturity	Value Added Trait	Seeding Rate (1,000 PPA)	Emergence	Seedling Vigor	Stalk Strength	Root Strength	Stay Green	Stress Tolerance	Test Weight	Silage Potential	North Leaf Blight	Gray Leaf Spot	Common Rust	Goss's Wilt	Flowering	Plant Height	Grain Type	Dry Down	DLF FIBER ENERGY
HYBRID CORN					1 = Poor	5 = Excellent	-- = Not Available														
NEW DLF 1999VT2P RIB	1800	69	VTDoublePRO [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	SM	D	Fast	
DLF 2076VT2P RIB	1950	72	VTDoublePRO [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	M	D	Fast	
DLF 2142RR	2000	75	Roundup Ready ² CORN	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	SM	D	Fast	
DLF 2158VT2P RIB	2075	76	VTDoublePRO [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	MT	D	Fast	
DLF 2320RR	2200	78	Roundup Ready ² CORN	30 - 34	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	T	F-D	Slow	DLF FIBER ENERGY
DLF 2321VT2P RIB	2225	78	VTDoublePRO [®] RIB COMPLETE	30 - 34	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	T	F-D	Slow	DLF FIBER ENERGY
DLF 2332	2250	79		32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	VE	M	F	Slow	DLF FIBER ENERGY
DLF 2333RR	2275	79	Roundup Ready ² CORN	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	VE	M	F	Slow	DLF FIBER ENERGY
DLF 2334VT2P RIB	2300	80	VTDoublePRO [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	VE	M	F	Slow	DLF FIBER ENERGY
DLF 2495RR	2325	80	Roundup Ready ² CORN	30 - 34	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	VT	F	Slow	DLF FIBER ENERGY
NEW DLF 2496VT2P RIB	2375	81	VTDoublePRO [®] RIB COMPLETE	30 - 34	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	VT	F	Slow	DLF FIBER ENERGY
DLF 2562VT2P RIB	2325	82	VTDoublePRO [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	M	D	Fast	
DLF 2563GSX RIB	2400	83	SmartStax [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	M	D	Fast	
DLF 2571GSX RIB	2500	85	SmartStax [®] RIB COMPLETE	32 - 36	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	E	MT	D	Fast	

NEW
DLF 1999VT2P RIB

- Strong yield in 70RM market
- Prefers higher populations
- Very good emergence & seedling vigour

CHU: 1800
RM: 69

VTDoublePRO[®]
RIB COMPLETE

Seedling Vigour	4
Stalk Strength	4
Dry Down	5
Test Weight	3
Silage Potential	2

NEW
DLF 2496VT2P RIB

- Very tall stature
- Impressive silage option
- Very good emergence

CHU: 2375
RM: 81

VTDoublePRO[®]
RIB COMPLETE

Seedling Vigour	4
Stalk Strength	3
Dry Down	3
Test Weight	5
Silage Potential	5

FLOWERING PLANT HEIGHT GRAIN TYPE VE = Very Early E = Early EM = Early-Medium M = Medium ML = Medium-Late L = Late S = Short SM = Short-Medium M = Medium MT = Medium-Tall T = Tall VT = Very Tall D = Dent F = Flint F-D = Flint-Dent



SILAGE SPECIFIC LEAFY HYBRIDS

Variety	Heat Units	Relative Maturity	Value Added Trait	Seeding Rate (1,000 PPA)	Emergence	Seedling Vigor	Stalk Strength	Root Strength	Stay Green	Stress Tolerance	Plant Height	Cob Colour	Milk/Tonne	Milk/Acre	DLF FIBER ENERGY
LEAFY CORN HYBRIDS					1 = Poor	5 = Excellent	- = Not Available								
DLF ExSeed LF RR	2450	85		28 - 30	●●●	●●●	●●●	●●●	●●●	●●●	T	W	●●●	●●●	
DLF ExAmine LFF RR	2525	86		28 - 30	●●●	●●●	●●●	●●●	●●●	●●●	T	R	●●●	●●●	*
DLF ExPand LF RR	2625	90		26 - 28	●●●	●●●	●●●	●●●	●●●	●●●	VT	W	●●●	●●●	
DLF ExPect LFF	2750	94		26 - 28	●●●	●●●	●●●	●●●	●●●	●●●	VT	W	●●●	●●●	
DLF ExPect LFF RR	2750	94		26 - 28	●●●	●●●	●●●	●●●	●●●	●●●	VT	W	●●●	●●●	

PLANT HEIGHT COB COLOUR S = Short SM = Short-Medium M = Medium MT = Medium-Tall T = Tall VT = Very Tall W = White R = Red * FIBER ENERGY EVALUATION PENDING

DLF EXSEED LF RR

- Floury Leafy corn silage
- White cob
- Early season development

CHU: 2350
RM: 85

Seedling Vigour **4**

Stalk Strength **3**

Emergence **4**

Height **4**

DLF EXPECT LFF RR

- Full floury Leafy corn silage
- White cob
- Very tall plant height

CHU: 2750
RM: 94

Seedling Vigour **5**

Stalk Strength **4**

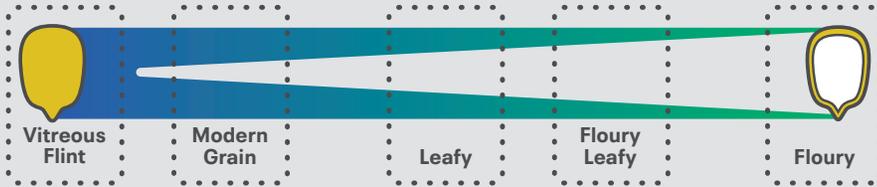
Emergence **5**

Height **5**



CHOOSING THE RIGHT HYBRID FOR YOUR CORN SILAGE NEEDS

CORN KERNEL COMPOSITION TYPES:



Dual purpose and BMR hybrids have a modern grain type kernel with more vitreous starch.

Leafy and Flourey Leafy corn silage hybrids have more flourey kernel types for a boost in starch digestibility.

DUAL PURPOSE

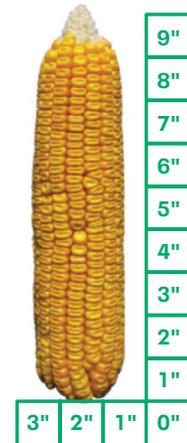
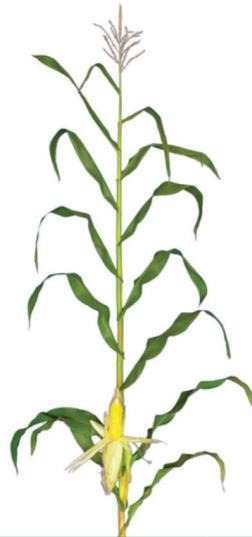
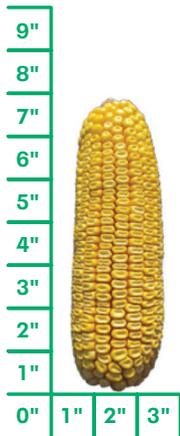
- Convenient harvest options
- Higher planting populations (higher seed cost)
- High vitreous starch (less starch digestibility)

LEAFY

- Silage specific harvest option
- Lower planting populations (lower seed cost)
- More leaves above the ear (increased tonnage)
- Less vitreous and more flourey starch (improved starch digestibility)

FLOUREY LEAFY

- Silage specific harvest option
- Lower planting populations (lower seed cost)
- More leaves above the ear (increased tonnage)
- High flourey starch (increased starch digestibility)



GRAIN 35,000 PPA

LEAFY 28,000 PPA



WESTERN CANADA

TURF GUIDE



TURF GRASSES FOR SPORT & LANDSCAPE

You won't settle with nothing but the best. Neither will we. Our turfgrass seeds offer a landscape of locally adjusted benefits helping you to perfect beautiful and resilient turfs. From football pitches and golf courses to horse tracks. From iconic tennis courts to your local park and the production of best-in-class sod. We are here to help.

NEW

INTRODUCING EARTH CARPET®



EARTH CARPET®

BY DLF

THE SCIENCE IS IN THE SEED™

Growing lush, green turf with the “wrong” seed is like growing an apple tree from pumpkin seed – no amount of effort will give you the desired result. At Earth Carpet® we’ve taken a revolutionary approach and spent years cultivating the right seeds for the right conditions.

SEED FOR ANY NEED

Whatever your project, conditions or budget, Earth Carpet® has you covered. Our versatile portfolio offers a variety of proven products, from economy to elite options, to fit each unique goal.

As a turf leader for many years, we know how to transform a lawn. Our quality mixes are known to produce beautiful lawns that you’ll take pride in and create curb appeal that adds value.

SWEAT LESS. SPEND LESS.

Our seed not only delivers consistent results, but also saves money and time. Quality seed means less cost and labor on water, fertilizer, pest control and excessive mowing. Higher quality turf with less work.



Mixtures are subject to change based on seed availability

PERFECTION

3-4 lbs/1000 ft² | 1.7 kg/100 m²

25 & 10 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



- 65% Certified Kentucky Bluegrass
- 25% Certified Creeping Red Fescue
- 10% Certified Perennial Ryegrass

PLATINUM BLEND

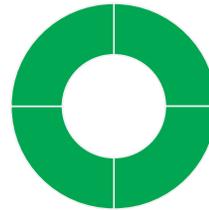
1-2 lbs/1000 ft² | 1.5 kg/100 m²

25 & 10 kg bags

Germination: 7-21 days

100% bluegrass blend of elite Kentucky Bluegrasses

- Provides a high quality, high density turf
- High disease resistance
- Great for overseeding sod



- 100% Certified Bluegrass (4 varieties)

PRAIRIE GREEN

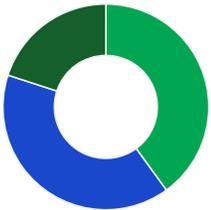
4 lbs/1000 ft² | 1.8 kg/100 m²

25 & 10 kg bags

Germination: 7-21 days

All-purpose turf mixture that is adaptable and cost effective

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



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

DURA GREEN

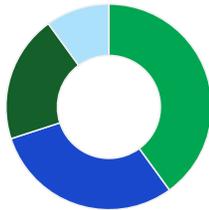
5 lbs/1000 ft² | 2.5 kg/100 m²

25 & 10 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



- 40% Certified Creeping Red Fescue
- 30% Certified Perennial Ryegrass
- 20% Certified Turf-Type Tall Fescue
- 10% Certified Kentucky Bluegrass

ENVIRO GREEN

6-7 lbs/1000 ft² | 1.7 kg/100 m²

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



- 40% Creeping Red Fescue
- 20% Sheep Fescue
- 15% Hard Fescue
- 15% Chewings Fescue
- 10% Kentucky Bluegrass

CARE FREE

6-8 lbs/1000 ft² | 3-4 kg/100 m²

25, 10, 3.5 & 1.5 kg bags

Ideal for difficult to manage sites

- Prefers little to no maintenance & mowing
- Thrives in infertile, dry, neglected soil or deep shade



- 50% Hard Fescue
- 20% Creeping Red Fescue
- 20% Chewings Fescue
- 10% Sheep Fescue

SUNNY PLACE

4-6 lbs/1000 ft² | 2-3 kg/100 m²

25, 10, 3.5 & 1.5 kg bags

Ideal for home lawns & commercial landscapes

- Combines quality turf with long-term persistence
- Great for over seeding bare spots or thin areas



- 33% Kentucky Bluegrass
- 34% Perennial Ryegrass
- 33% Creeping Red Fescue

SHADY PLACE

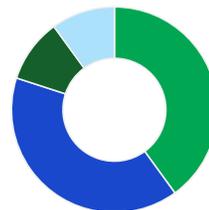
5-8 lbs/1000 ft² | 2.5-4 kg/100 m²

25, 10, 3.5 & 1.5 kg bags

Germination: 7-21 days

Ideal for home lawns with moderate to densely shaded areas

- Provides an even transition from shaded to full sun
- Great for revitalizing "thinned out" shaded areas



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

MIX SELECTION GUIDE

	ALL PURPOSE	SHADE MIX	LOW MAINTENANCE	QUICK ESTABLISHMENT
PRAIRIE GREEN	✓			
ENVIRO GREEN	✓		✓	✓
PERFECTION	✓			
DURA GREEN	✓			✓
PRAIRIE GREEN	✓	✓	✓	✓
CARE FREE	✓	✓	✓	
SUNNY PLACE				✓
SHADY PLACE		✓		✓

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 per label instructions at 30 days.

MOWING:

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



COMPETITION GRADE™

MAKING THE GRADE >> THE VARIETY SELECTION PROCESS

The cultivars approved for Competition Grade™ meet stringent characteristics for sports turf usage. Many of them originate from parental lines that were selected based on wear tolerance and recovery in trials at Oregon, Kentucky or New Jersey. All the cultivars must have superior performance in at least two NTEP wear trials. In these trials they must demonstrate retention of ground cover, recover from wear and high turf quality, over multiple years and seasons. Each cultivar must have at least one other superior characteristic to contribute to the blend. These characteristics include high seedling vigor, rapid establishment, early spring green up or fall growth and superior resistance to diseases such as Gray Leaf Spot, Brown Patch and Summer Patch.

COMPETITION GRADE CULTIVARS 2025

Kentucky Bluegrass

Sombrero	Martha
Fielder (SPTR 2959)	SR 2100
Jackrabbit	SRX 2758
Granite	SR 2150
Mercury	Heidi

Tall Fescue

Crossfire 4	Raceway
Fayette	Turfway
Nightcrawler	Standout
Rhizing Moon	Firewall
Gallardo	Houndog 8
Essential 2	

Perennial Ryegrass

Karma	Gator Cinco
Aspire	Mightier
Thrive	Mystique
Fiesta 4	Helios
Allstar Fore	TetraSport
Fiesta Cinco	Tetradark

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.



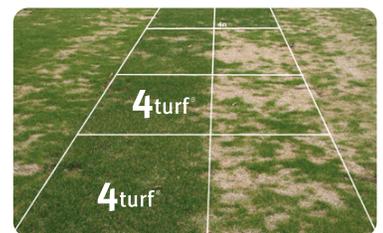
DROUGHT TOLERANT

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.



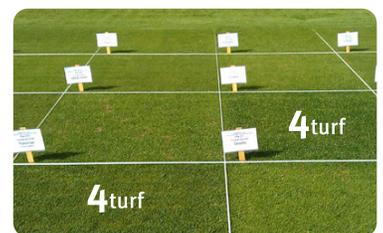
EXCEPTIONAL DISEASE RESISTANCE & WINTER PERFORMANCE

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.



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

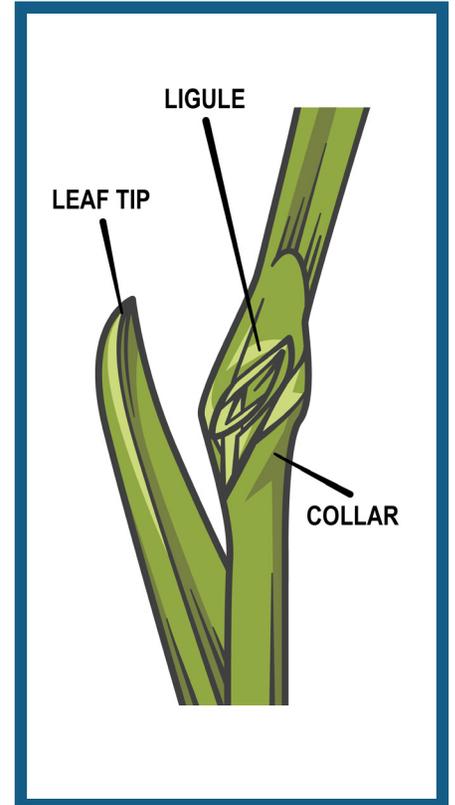
- Compact America
- Tolerates hard wear
- Self repairing properties



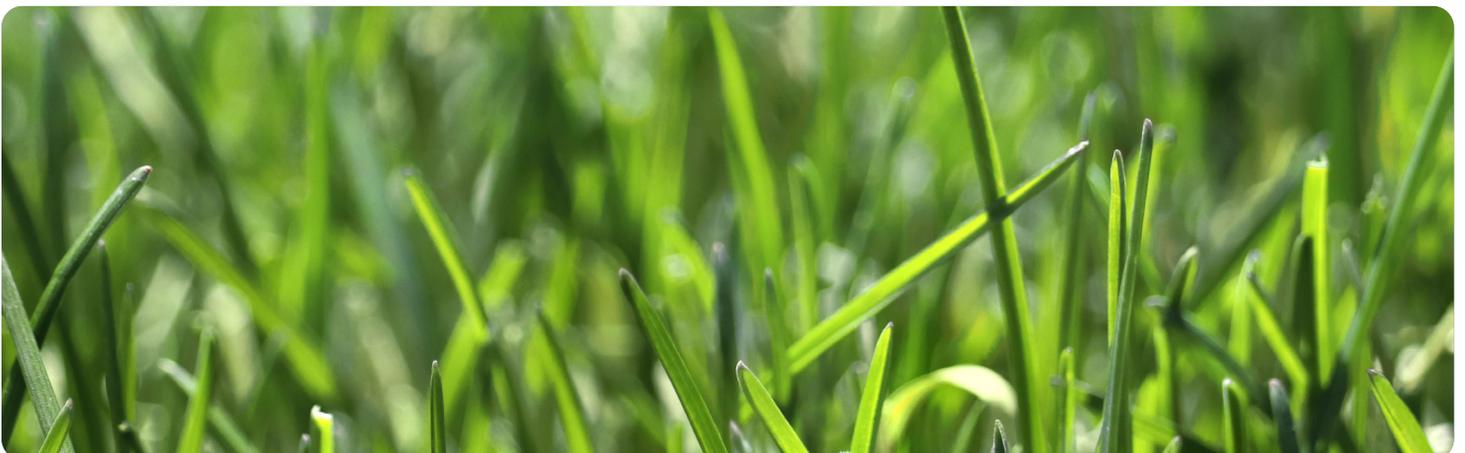
SOMBRERO

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 ²



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 vigour

4turf®



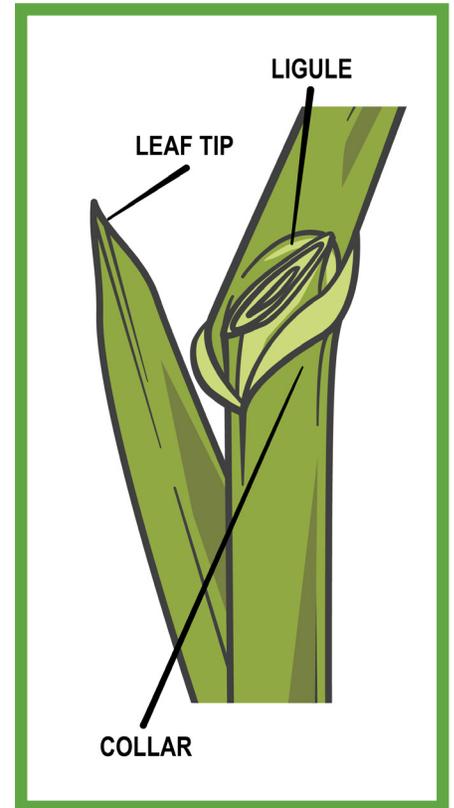
TETRAGREEN PERENNIAL RYEGRASS

- 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 ²



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

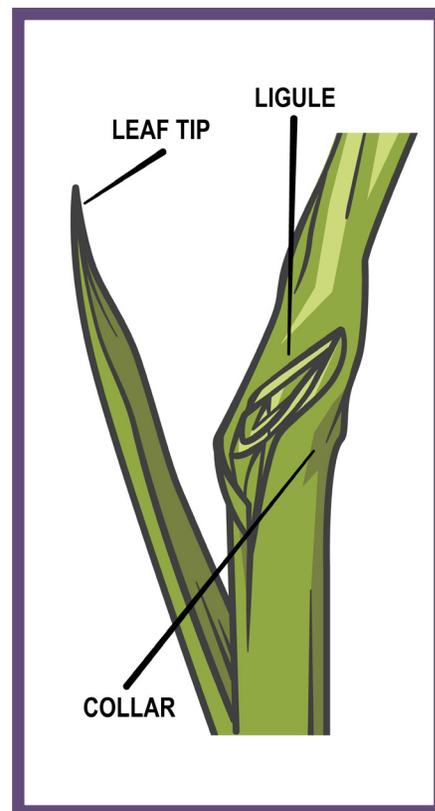
- Excellent salt tolerance
- Endophyte enhanced
- High heat tolerance



LEEWARD

CHEWINGS FESCUE

- Superior turf quality
- High resistance to weed invasion
- Tolerates all mowing heights
- Excellent disease resistance



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 ²



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

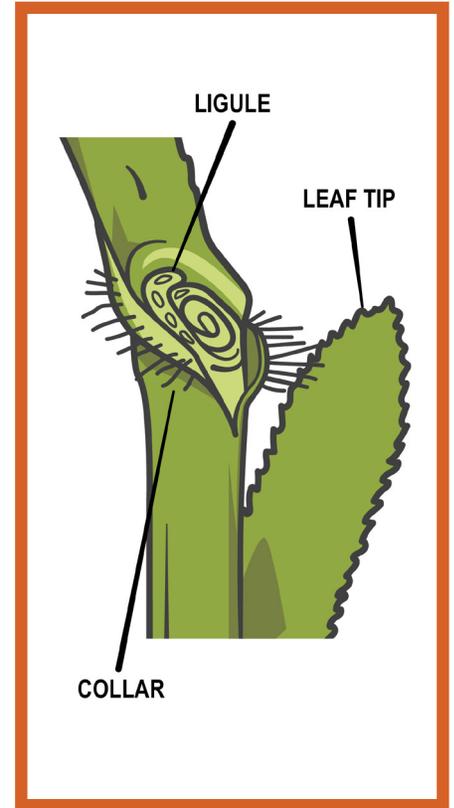
- Very wear tolerant
- Superior shade tolerance
- High endophyte levels



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 ²





SUPER BENTS™

BY DLF

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™ 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

TILLINGHAST

CREeping BENTGRASS

- High resistance to Poa annua invasion
- Early spring greenup
- High density without bentgrass bloat



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 ²

CONTACTS



PATRICK REED

Vice President of Sales,
North America



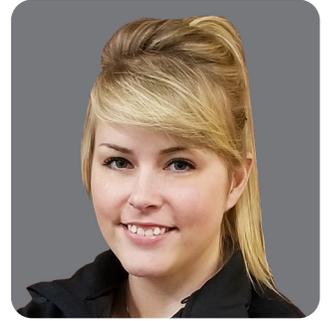
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Western Canada
Wholesale & Operations



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Director of Portfolio
Management,
North America



SYLVIA MEGENS

Manager,
Product Development



DALLAS OLD CORN

Sales Manager,
Western Canada



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Regional Sales Manager,
British Columbia



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Alberta



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Regional Sales Manager,
Alberta



CHAD KEISIG

Regional Sales Manager,
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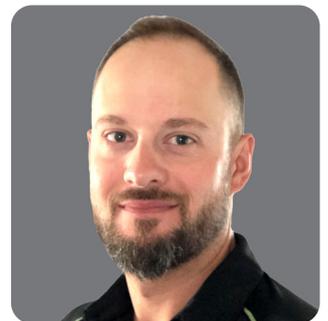
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THOMAS RINN

Regional Sales Manager,
Manitoba



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(306) 862-9819



CUSTOMER SERVICE
ALBERTA
1-800-265-3925



CUSTOMER SERVICE
BRITISH COLUMBIA
1-877-504-7964

WORKING WITH DLF



**OUR WORLD CLASS SEED IS PRODUCED BY THE
FINEST GROWERS IN THE INDUSTRY**

**IT TAKES 15 YEARS OF RESEARCH & DEVELOPMENT FOR A
NEW VARIETY TO MAKE IT INTO A DLF SEED BAG!**

YEAR 1-4

Different legumes and grasses are crossed in order to find new and improved breeding lines. These new lines are then propagated for test seed samples and sown in thousands of test plots.

YEAR 5-8

The new breeding lines are tested under different climatic conditions around the world to evaluate their performance. Only the best varieties continue in our program.

YEAR 9-11

The very best varieties are put into initial seedstock production by our breeders.

YEAR 12-13

Seedstock is planted by our experienced seed growers.

YEAR 14

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

YEAR 15+

After careful selection the varieties are mixed and packed into our bags at our dedicated warehouse.



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
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