

Earth Carpet®

THE SCIENCE IS IN THE SEED®

SEED GUIDE | EDITION 13





La Crosse Seed + DLF: Seeds & Science, Delivered

Since 2018, La Crosse Seed has been an operating company within DLF Seeds, the global leader in research, development, production and distribution of turfgrass and other seed.

Still the La Crosse Seed you know and love, we are now part of a worldwide organization with a tremendous passion for innovation and a commitment to helping us deliver the absolute best turf products.

As disease, climate and weather patterns continue to change, new genetics are needed to succeed.

DLF, including its Seed Research of Oregon brand, leads the industry in developing products with useful turf traits found throughout our Earth Carpet® lineup:

- Spreading tall fescue & perennial ryegrass (see our value added trait descriptions on page 2)
- 4Turf® tetraploid perennial ryegrass
- Salt tolerance
- Faster germination, establishment & longer active growing seasons

DLF: A Global Leader in Research & Development

The DLF Group is headquartered in Denmark, where it started with selection work in grasses and clovers over 100 years ago. Today, DLF is the world's largest producer and marketer of cool season forage and turf grasses. DLF has been able to reach that position by offering a portfolio of top performing varieties combined with efficient seed production and distribution. Over the course of the past 100 years, variety improvement methods have dramatically improved and the resources DLF has allocated to this effort have increased substantially. The original simple selection methods were complemented with pair crossings, creation of tetraploids, molecular marker-assisted breeding and inclusion of novel endophytes. Genome Wide Selection (GWS) is the latest tool in our variety improvement program. R&D remains a crucial part of operations at 10% of the total DLF workforce.

Variety adaption to local conditions is paramount and DLF's Research Stations are strategically located around the globe to develop the varieties

that meet that requirement. All Research Stations are fully integrated in DLF's global research network, complemented with independent third party locations to extend the environments in which the newest developments are trialed. It allows for screening for certain diseases in a broad array of breeding lines in locations where the disease pressure is high and predictable. The data from all trial locations is fed back to DLF's breeders, who analyze this data to select the varieties with exceptional performance and the broadest adaptation.

The data generated through this intensive trial program is also utilized in the product development and marketing phases of the resulting varieties. Besides yield, disease resistance and quality data, it provides data on suitability for a certain use, adaptation to climactic and soil conditions, etc. These are all traits that are important to the end users.



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



11% 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 Brilman, Ph.D., has worked for Seed Research of Oregon and DLF. She currently serves as Director of Research and Technical Services. Brilman'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.



**Excellent products and outstanding reps.
Looking forward to another year."**

Mike L., Northeastern Missouri



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About Earth Carpet®

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.

STAND OUT. IN A GOOD WAY.

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. Guaranteed.

We Enhance Our Seed

Our seed treatments enhance germination, establishment and survival of the blends and mixes offered within the Earth Carpet® portfolio.

- **Greater water holding capacity so better germination in drought conditions**
- **Micronutrients help seedling establish stronger and more vigorously**
- **Improved turf quality beyond establishment**
- **Improved establishment**
- **Uniform seeding**



Look for the Crossecoat™ seed enhancement symbol throughout this guide.

Custom Mixes & Private Label

La Crosse Seed offers custom mixing capabilities and private label opportunities to meet your specific needs. Contact us to learn more.



LOOK FOR THESE VALUE-ADDED TRAITS OR CERTIFICATIONS NEXT TO EARTH CARPET® PRODUCTS IN THIS GUIDE



Spreading **T**echnology - Many perennial ryegrass products in our portfolio benefit from spreading technology, featuring early development of aggressively spreading stolons both above and below ground. These spreading traits boast improved wear tolerance and recovery plus excellent density and persistence.



EXtreme **R**hizome **E**xpression - Many products in our portfolio benefit from “XRE Spreading Tall Fescue” varieties, which feature early expression of strong, aggressively spreading rhizomes. These products exhibit increased wear tolerance and persistence under high-use pressure.



Look for the “XRE +” icon throughout this book for products with tall fescue varieties featuring even earlier, more aggressive and rapid tillering traits and rhizome expression. These products exhibit superior density, excellent wear tolerance and rapid recovery.



ONLINE
RESOURCES

For additional turf related information, visit earthcarpet.com

A-List Approved Varieties



The **A**lliance for **L**ow **I**ntput **S**ustainable **T**urf 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. To become an "A-LIST Approved Variety", a variety must have demonstrated superior performance in A-LIST trials.

WANT HEALTHY, SUSTAINABLE TURF? THE SCIENCE IS IN THE SEED®

La Crosse Seed is committed to helping you get more from the soil while conserving resources. For Earth Carpet®, that means offering the latest genetics to help you grow "healthy turf" that requires less inputs.

Better seed means healthier, dense, sustainable turf that when cared for and fed correctly leads to conservation through:

- Less fertilizer
- Less water
- Less insecticide
- Less fungicide
- Less herbicide
- Less re-seeding
- Cooler ground



NATIVES FIRST™

Native Grasses & Wildflowers

Natives First® conservation seed, including native grass and wildflower mixes, pair clean, quality native seed with sound agronomics and management support to ensure the right product and right approach for your conservation or CRP planting. Our conservation seed portfolio includes annual and perennial wildflower pollinator mixes, native grasses, forbs and custom CRP mixes.

A partial list of native seed options available through La Crosse Seed includes:

GRASSES

- Big Bluestem
- Blue Grama
- Buffalograss
- Canada Wildrye
- Eastern Gamagrass
- Green Needlegrass
- Indiangrass
- Intermediate Wheatgrass
- Junegrass
- Little Bluestem

FORBS

- Black-Eyed Susan
- Ox-Eye Sunflower
- Maximilian Sunflower
- Partridge Pea
- Purple Coneflower
- Showy Tick Trefoil
- Wild Bergamot
- Yellow Coneflower

MIXES

- Midwest Wildflower Mix
- Color Iowa Wild Mix
- Knee-High Wildflower Mix
- North American Shade Wildflower Mix
- Native Wildflower Mix for Pollinators
- All Perennial Wildflower Mix
- Upland Native Mix
- Lowland Native Mix (Tall)
- EcoGrass Short Mix

CUSTOM CRP MIXING

La Crosse Seed offers custom mixing capabilities to meet any conservation needs. Contact us at info@laxseed.com or visit our website to learn more.



ONLINE
RESOURCES

For product & management information, visit laxcrosseed.com

The Hidden Costs of Old, Common Seed

If you take a long, hard look at some of our competitors, you'll notice they're still peddling the same seed mixes they've been selling for 50 years:

- Common Kentucky bluegrass, perennial ryegrass, fine fescue & tall fescue
- Old seed varieties that were once popular but are now considered the same as commons, including 98/85 Kentucky bluegrass, Linn perennial ryegrass & Kentucky 31 tall fescue

SADLY, YEAR AFTER YEAR, THE CUSTOMERS WHO BUY THESE SEEDS ARE CONFRONTED WITH THE SAME OLD HEADACHES:

- No disease resistance — red thread, dollar spot, rust, necrotic ring spot, brown patch & others are par for the course
- No insect resistance — sod webworm, cutworms, billbugs & chinch bugs rear their ugly heads
- No drought or heat stress tolerance
- No wear & tear tolerance — impractical for athletic events or backyard games

If all you're looking at is price per bag, common grass seed looks like a bargain compared to Earth Carpet®. However, common seed requires more labor and management:

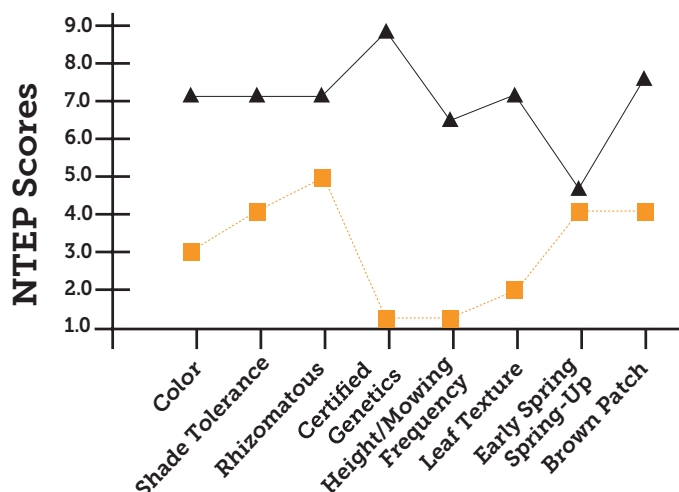
- More fertilizer
- More fungicide
- More water
- More herbicide
- More insecticide
- More reseeding

YOUR CUSTOMERS DESERVE BETTER!

Some of our competitors' lawn seed mixes haven't changed in 50 years. Genetically speaking, some seed varieties are still trapped in the 1950's.

SEED MIX COMPARISON

▲ Earth Carpet® Tuff Stuff Mix vs. ■ KY31



Earth Carpet® Versus Common Seed Cost Comparison For One Complete Season (Seeding Year)

(COSTS ARE BASED ON A 10,000 SQ. FT. LAWN USING APPROXIMATE SEED PRICING FOR A TYPICAL SEASON. PRICING IS SUBJECT TO SEASONAL INDUSTRY DEVELOPMENTS)

Real Cost of Common Seed

STEP	TOTAL
Initial Seeding (70 lbs @ \$2.80/lb)	\$196.00
Starter Fertilizer Application (40 lbs @ \$.37/lb)	\$14.80
Second Fertilizer Application (40 lbs @ \$.37/lb)	\$14.80
Third Fertilizer Application (40 lbs @ \$.37/lb)	\$14.80
Insecticide	\$55.44
Fungicide	\$57.60
Weed & Feed Application in the Fall (or Herbicide)	\$25.38
Reseeding (35 lbs @ \$2.80/lb)	\$98.00
Fertilizer for Reseeding (35 lbs @ \$.37/lb)	\$12.95
SEASON TOTAL	\$489.77

Earth Carpet® Seed

STEP	TOTAL
Initial Seeding (70 lbs @ \$3.50/lb)	\$245.00
Starter Fertilizer Application (40 lbs @ \$.37/lb)	\$14.80
Second Fertilizer Application (40 lbs @ \$.37/lb)	\$14.80
Weed & Feed Application in the Fall (or Herbicide)	\$25.38
SEASON TOTAL	\$299.98

*THIS CHART IS AN ESTIMATION. IT IS SUBJECT TO CHANGE AS PRICING CHANGES.

A BAG OF COMMON SEED MAY BE CHEAPER, BUT IT'S NO BARGAIN. WHEN CUSTOMERS SWITCH TO EARTH CARPET®, TWO THINGS HAPPEN: TURF QUALITY GOES UP - COSTS AND LABOR GO DOWN.

Professional Landscape Mixes

Earth Carpet® professional mixes are optimal performers under many conditions. These premium mixes feature elite turf varieties to ensure your lawn or professional landscape project stands out for the right reasons.

SEEDING
LBS/1,000 SQ FT

STRESS TOLERANCE

NEW OVER

HEAT WEAR DROUGHT TRAFFIC

choice sun and shade®

AVAILABLE IN 5, 20 & 50#

4 - 6	2 - 4	4	4	3	4
-------	-------	---	---	---	---



Ideal for establishing premium lawns or upgrading existing turf

- Strong winter survival
- Excellent for new lawns or upgrading existing turf
- Improved varieties for better color, shade tolerance & disease resistance



40% Kentucky Bluegrass (3 Elite Varieties)
30% Perennial Ryegrass (3 Elite Varieties)
15% Creeping Red Fescue (1 Elite Variety)
15% Chewings Fescue (1 Elite Variety)

SEEDING
LBS/1,000 SQ FT

STRESS TOLERANCE

NEW OVER

HEAT WEAR DROUGHT TRAFFIC

madison parks®

AVAILABLE IN 5, 20 & 50#

4 - 6	2 - 4	4	4	3	4
-------	-------	---	---	---	---



Ideal for establishing premium lawns or upgrading existing turf

- Establishes permanent, park-like turf
- Improved varieties for better color, shade tolerance & disease resistance



50% Kentucky Bluegrass (4 Elite Varieties)
25% Perennial Ryegrass (2 Elite Varieties)
25% Creeping Red Fescue (1 Elite Variety)

spartan® GRADE A

Stocked in Michigan only

AVAILABLE IN 5, 20 & 50#

4 - 6	2 - 4	4	4	3	4
-------	-------	---	---	---	---



Ideal for establishing premium lawns or upgrading existing turf

- Recovers rapidly to wear
- Improved varieties for improved results
- Thick turf with moderate to high maintenance, gray leaf spot tolerance



40% Kentucky Bluegrass (2 Elite Varieties)
20% Perennial Ryegrass (2 Elite Varieties)
20% Creeping Red Fescue (1 Elite Variety)
20% Chewings Fescue (1 Elite Variety)

wear-n-tear™

AVAILABLE IN 5, 20 & 50#

4 - 6	2 - 4	4	4	3	4
-------	-------	---	---	---	---



Ideal for establishing premium lawns or upgrading existing turf

- Withstands abuse of continual use & high traffic
- Improved varieties for improved results



40% Kentucky Bluegrass (2 Elite Varieties)
40% Perennial Ryegrass (2 Elite Varieties)
10% Creeping Red Fescue (1 Elite Variety)
10% Chewings Fescue (1 Elite Variety)



Contains
Enhanced
Seed



Elite
Varieties

LXQ
LA CROSSE QUALITY

Branded
Components



Spreading
Technology

RATING SCALE: 1 = WORST, 5 = BEST

ELITE VARIETIES - Many of our mixes feature elite turf varieties. An "elite" variety is an improved variety holding the most distinguished characteristics of that species. For optimal performance, look for mixes containing elite varieties in our Earth Carpet® seed guide.

General Landscape Mixes

Our Earth Carpet® general landscape mixes offer quality, time tested products that fit a variety of conditions and budgets. These options are great for general landscape projects including home lawns, parks, playgrounds and more.

SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
park place®					
AVAILABLE IN 5, 20 & 50#					
4 - 6	2 - 4	4	4	3	3



Ideal for home lawns, parks & school grounds

- Designed for sun & light shade
- Fast to establish & easy to maintain
- Able to perform under varying conditions

LXQ
LA CROSSE QUALITY



SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
sunny place®					
AVAILABLE IN 5, 20 & 50#					
4 - 6	2 - 4	3	3	3	3



Ideal for home lawns & commercial landscapes

- Combines quality turf with long-term persistence
- Winter-hardy varieties for use in Northern areas
- Great for over seeding bare spots or thin areas

LXQ
LA CROSSE QUALITY



quick-2-gro					
AVAILABLE IN 5, 20 & 50#					
4 - 6	2 - 4	3	3	3	3



Ideal for areas needing quick establishment

- Mix performs well in full sun to light shade
- Germinates quickly & grows rapidly
- Excellent choice when fast results are required

LXQ
LA CROSSE QUALITY



michigan green®					
AVAILABLE IN 20 & 50#					
4 - 6	2 - 4	3	3	3	3

Stocked in Michigan only



Ideal for the Great Lakes Region & easy on your budget

- Formulated to be easy on your budget
- Thrives in either sun or shade
- May require over seeding in a few years

LXQ
LA CROSSE QUALITY



speedy green					
AVAILABLE IN 5, 20 & 50#					
4 - 6	2 - 4	3	3	3	3

- Mix performs well in full sun to light shade
- Germinates quickly & grow rapidly
- Excellent choice when fast results are required

LXQ
LA CROSSE QUALITY



Kentucky Bluegrass & Perennial Ryegrass Mixes & Blends

Kentucky Bluegrass and perennial ryegrass based Earth Carpet® mixes perform under stress from heat and wear, and are ideal for home lawns, commercial turf, golf courses, athletic fields, playgrounds and more.

SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
blue carpet®					
AVAILABLE IN 20 & 50#					
2 - 4	1 - 3	4	5	3	5



Ideal for golf course tees, fairways & fine home lawns

- A “fairway quality” blend with a “sod-look”
- Provides a lush, dense, intense dark green turf
- Responds well with regular maintenance



100% Kentucky Bluegrass (4 Elite Varieties)



SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
pro-sports®					
AVAILABLE IN 20 & 50#					
3 - 5	2 - 3	4	5	3	5



Ideal for sports fields & other high performance areas

- Dense, durable turf with gray leaf spot tolerance
- Germinates quickly & establishes easily
- Provides unparalleled results in managed turf



80% Kentucky Bluegrass (4 Elite Varieties)
20% Perennial Ryegrass (2 Elite Varieties)



sports park® os					
AVAILABLE IN 20 & 50#					
3 - 5	2 - 3	4	5	3	4



Ideal for renovating athletic fields & playgrounds

- Contains gray leaf spot tolerant perennial ryegrasses
- Thick turf with moderate to high maintenance
- Establishes quickly & recovers rapidly to wear



50% Kentucky Bluegrass (3 Elite Varieties)
50% Perennial Ryegrass (2 Elite Varieties)



champion					
AVAILABLE IN 5, 20 & 50#					
6 - 8	3 - 5	4	5	3	4



Ideal for renovating athletic fields & high traffic areas

- Excellent performance blend of perennial ryegrasses
- Provides durable turf with gray leaf spot tolerance
- Improved genetic color, fine texture & mowability



100% Perennial Ryegrass (4 Elite Varieties)



Contains
Enhanced
Seed



A-List
Approved



Elite
Varieties



Shade
Tolerant



Spreading
Technology

Slope & Shade Mixes

Our specialty turf mixes, designed for shade and slopes, include elite varieties that thrive under full sun or deep shade – perfect for neglected soil and shady areas.

SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
care free					
AVAILABLE IN 5, 20 & 50#					
6-8	3-4	3	2	4	3



Ideal for hillsides, deep roughs, RV parks & cabin sites

- Perfect for difficult to manage sites
- Thrives in infertile, dry, neglected soil or deep shade
- Prefers little to no maintenance & mowing



- 20%** Creeping Red Fescue (1 Elite Variety)
- 20%** Chewings Fescue (1 Elite Variety)
- 10%** Sheep Fescue (1 Elite Variety)
- 50%** Hard Fescue (1 Elite Variety)

SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
shady place®					
AVAILABLE IN 5, 20 & 50#					
5-8	3-4	3	2	3	3



Ideal for home lawns with moderate to densely shaded areas

- Improved shade tolerant varieties
- Provides an even transition from shaded to full sun
- Great for revitalizing “thinned out” shaded areas



- 40%** Chewings Fescue (2 Elite Varieties)
- 40%** Creeping Red Fescue (2 Elite Varieties)
- 10%** Kentucky Bluegrass (1 Elite Variety)
- 10%** Perennial Ryegrass (1 Elite Variety)

low grow fescue mix					
AVAILABLE IN 5, 20 & 50#					
6-8	3-4	3	2	4	3

- Economy minded minimal input
- Thrives in infertile, dry, neglected soil or deep shade
- Prefers little to no maintenance or mowing
- Works well for cabins or where low growing is desired



- 35%** Creeping Red Fescue
- 25%** Hard Fescue
- 35%** Chewings Fescue
- 15%** Sheep Fescue

“La Crosse Seed has provided us with turf seed for years. They consistently have the highest quality products and most durable turf on the market. We trust La Crosse Seed to provide the turf needed for a successful, durable and beautiful field.”

**Duell Higbe, General Manager
Sioux Falls Canaries Baseball**



RATING SCALE: 1 = WORST, 5 = BEST

ELITE VARIETIES - Many of our mixes feature elite turf varieties. An “elite” variety is an improved variety holding the most distinguished characteristics of that species. For optimal performance, look for mixes containing elite varieties in our Earth Carpet® seed guide.

Tall Fescue Based Mixes & Blends

Tall fescue based Earth Carpet® mixes offer high quality, durable turf for many conditions including low maintenance applications and in limited water or drought areas where sustainable turf and conservation are needed.

SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
green resistor® 5 way					
AVAILABLE IN 5, 20 & 50#					
8 - 10	4 - 8	5	5	5	5



Ideal for home lawns, athletic fields & golf course roughs

- Tolerates heat & drought stress
- Excellent disease resistance – especially brown patch
- Can stay green where rainfall or irrigation is limited
- Low maintenance, high quality turf
- Works well for sandy & loamy soils



100% Tall Fescue (5 Elite Varieties)



SEEDING LBS/1,000 SQ FT		STRESS TOLERANCE			
NEW	OVER	HEAT	WEAR	DROUGHT	TRAFFIC
tuff stuff®					
AVAILABLE IN 5, 20 & 50#					
8 - 10	4 - 8	5	5	5	5



Ideal for high traffic, athletic fields & golf course roughs

- Replaces Top Athletic & Watertight H2O
- Low input, sustainable mix for water conservation
- Tolerates heat, drought & poor, sandy or loamy soils
- Low maintenance, very high quality turf



90% Tall Fescue (3 Elite Varieties)
10% Kentucky Bluegrass (1 Elite Variety)



survivor					
AVAILABLE IN 5, 20 & 50#					
8 - 10	4 - 8	4	4	5	5

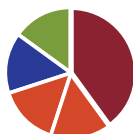


Ideal for low maintenance sites

- All around mix great for a variety of applications
- Highly stress tolerant and requires minimal care
- Works well for sandy & loamy soils



40% Tall Fescue (2 Elite Varieties)
15% Creeping Red Fescue (1 Elite Variety)
15% Chewings Fescue (1 Elite Variety)
15% Kentucky Bluegrass (1 Elite Variety)
15% Perennial Ryegrass (1 Elite Variety)



sandy soil turf mix					
AVAILABLE IN 5, 20 & 50#					
8 - 10	4 - 8	4	4	5	5

- Economy minded versatile application
- Drought and stress tolerant and requires minimal inputs
- Works well for sandy & loamy soils



45% Tall Fescue
20% Creeping Red Fescue
20% Kentucky Bluegrass
15% Perennial Ryegrass



A-List
Approved



Contains
Enhanced Seed



Elite
Varieties



Shade
Tolerant



Spreading
Technology



EXtreme Rhizome
Expression +

RATING SCALE: 1 = WORST, 5 = BEST

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SEEDING
LBS/1,000 SQ FT

STRESS TOLERANCE

NEW OVER

HEAT

WEAR

DROUGHT

TRAFFIC

athletic tz overseeder

AVAILABLE IN 50#

8 - 10	4 - 8	5	5	5	5
--------	-------	---	---	---	---

- Tolerates heat & drought stress
- Can stay green where rainfall or irrigation is limited
- Low maintenance high quality turf
- Works well for sandy & loamy soils



XRE+
Spreading
Tall Fescue



80% Turf-Type Tall Fescue (2 Elite Varieties)
15% Perennial Ryegrass (1 Elite Variety)
5% Kentucky Bluegrass (1 Elite Variety)

Bentgrass

A cool season grass used almost exclusively on golf course putting greens and fairways, creeping bentgrass is characterized by persistence under extremely low cutting heights and very dense, uniform, stoloniferous growth and rapid recuperation. It requires high input maintenance and expert management to cope with resulting diseases. Bentgrass is adapted to a wide range of climates yet is susceptible to many diseases, due to the stress levels under which it performs.

La Crosse Seed is a proud business member of DLF Seeds, a global leader in turf and forage seed development. Below is a showcase of the many elite varieties we showcase in our mixes.

Supply production can be volatile across seasons, get your order in early!

AGRONOMIC INFORMATION

USES: Golf greens, tees, fairways

IDENTIFICATION: Pointed tip leaf, flat and smooth in appearance. Lighter to very dark green color, vertical growth habit, dense growth habit, tolerates very low mowing.

ESTABLISHMENT: Quick germination, aggressive to medium-aggressive growth habit, vertical growth habit without tendency to thatch. Good spring green-up, color retention and wear tolerance. High maintenance, quality turfgrass.

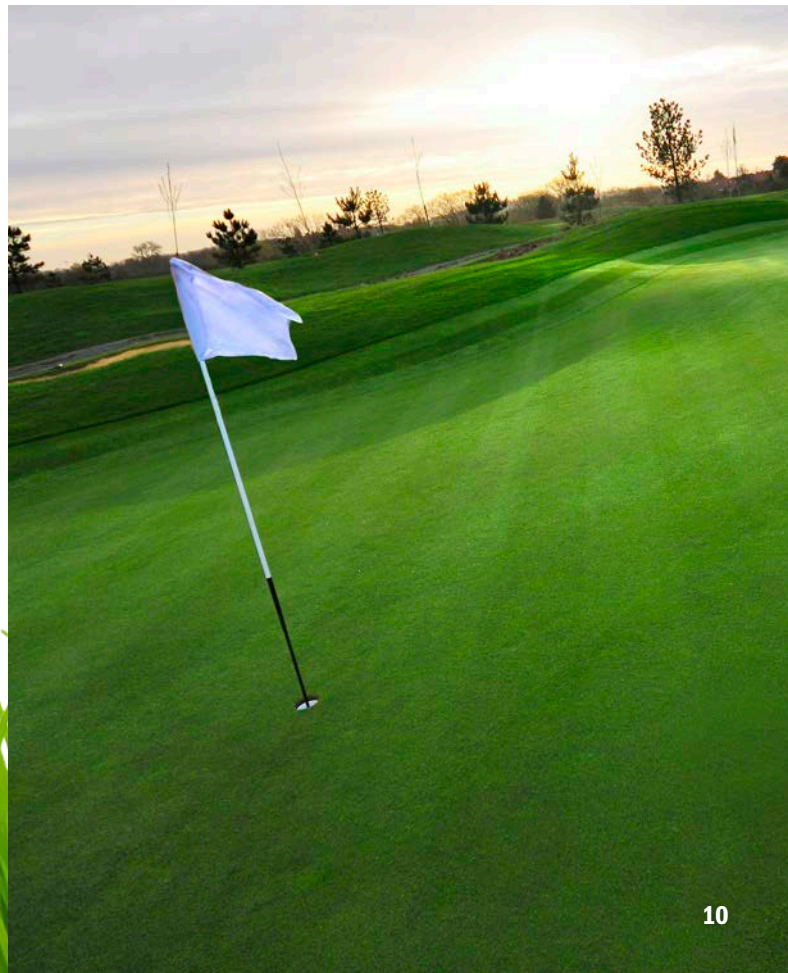
SEEDING RATES: 1 - 2 lbs/1,000 sq ft

GERMINATION: 5 - 10 days

GROWTH HABIT: Stolons

APPROX. SEEDS PER LB: 6,000,000 - 7,000,000

BLADE: 1 - 2 mm, pointed tip, flat, smooth



Fescue, Fine

Three grasses go under the common name of fine fescue: chewings fescue, creeping red 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. Hard fescue has a strong bunching habit that makes it appear less refined than other lawn grasses, but will persist in difficult sites that are unusually cold, windy and dry.

La Crosse Seed is a proud business member of DLF Seeds, a global leader in turf and forage seed development. Below is a showcase of the many elite varieties we showcase in our mixes.

Supply production can be volatile across seasons, get your order in early!

AGRONOMIC INFORMATION

USES: Shaded lawns, ground cover

IDENTIFICATION: Narrow-leaved, cool season perennial and creeping and/or bunch growth habit, found mostly in shaded areas. Leaves have folded vernation (stem) and a dull underside.

ESTABLISHMENT: Slow establisher like tall fescue. Ideal for shade.

SEEDING RATES:

4 - 6 lbs/1,000 sq ft

GERMINATION:

7 - 14 days*

GROWTH HABIT:

Bunch, creeping and/or spreading, slow growing

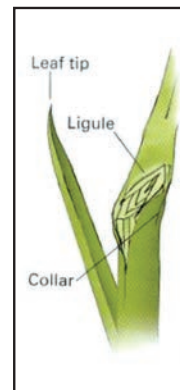
APPROX. SEEDS PER LB:

500,000 - 615,000, depending on species

BLADE:

1 - 2 mm, pointed, needle-like tip

*Under prime conditions



Blade: Folded

Ligule:
Clear, short

Collar: Smooth

New Leaf: Folded

TRAITS RELATIVE TO SPECIES TYPE



- High summer stress tolerance
- Wear tolerant

- Disease resistant
- Endophyte enhanced
- Excellent spring density



- Very wear tolerant at all mowing heights
- Superior winter hardiness with early spring green-up

- High turf quality under all maintenance levels
- High endophytes



NEW



- Bullets Low to high maintenance turf sites
- Excellent heat & drought stress

- Excellent performance in shade and sun



- Recommended for both high & low maintenance sites

- Superior disease resistance
- High levels of endophytes



- Low to high maintenance turf sites
- Excellent performance in shade & sun

- Excellent heat & drought stress
- Rapid establishment, while slow growing



Fescue, Tall

Tall fescue is a cool season grass, well adapted to sunny or partially shady areas. When densely sown, a pure stand forms a moderate to coarse-textured lawn that is uniform in appearance with good weed and disease resistance. Tall fescue 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.

La Crosse Seed is a proud business member of DLF Seeds, a global leader in turf and forage seed development. Below is a showcase of the many elite varieties we showcase in our mixes.

Supply production can be volatile across seasons, get your order in early!

AGRONOMIC INFORMATION

USES: Lawns, athletic fields, commercial sites, slopes, parks, reclamation sites. Ideal in sun or shade or limited water.

IDENTIFICATION: Deep rooted, cool season perennial bunchgrass. Grows from tillers. Leaf blades are glossy on the underside/serrated on margins. Leaf blades may be wide with rolled vernation (stem), blades smooth on turf-type, coarse on others.

ESTABLISHMENT: Slow, but not as slow as bluegrass. Needs plentiful water to establish, then very drought tolerant.

SEEDING RATES:

8 - 10 lbs/1,000 sq ft

GERMINATION:

7 - 14 days*

GROWTH HABIT:

Bunch type, tillers, some with Rhizomes

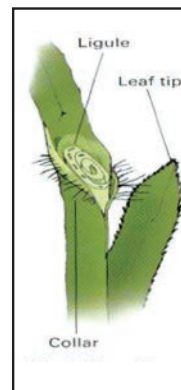
APPROX. SEEDS PER LB:

225,000

BLADE:

2 - 5 mm, broad, spear

*Under prime conditions



Blade: Broad, flat, blunt

Ligule: Clear, long, cropped

Collar: Heavy

New Leaf: Rolled

TRAITS RELATIVE TO SPECIES TYPE

FAYETTE
TALL FESCUE



- High wear & cold tolerance

- Drought tolerant
- Aggressive tillering



NEW

GALLARDO
TALL FESCUE



- Excellent turf quality with early spring green-up
- Stress & drought tolerant
- High density

- Aggressive tillering & rhizomes
- Superior wear tolerance



SR 8650
TURF-TYPE TALL FESCUE

- Excellent brown patch resistance
- Heat & cold tolerant

- High rhizome expression



TRENDING
TURF-TYPE TALL FESCUE

- Superior drought tolerance
- Fast establishment

- Performs well under reduced inputs
- Aggressive tillering



NEW

RACEWAY
TALL FESCUE



- Excellent brown patch, gray leaf spot, and pythium disease resistance
- High rhizome expression

- Superior drought & stress tolerance
- Performs well under reduced inputs






ONLINE
RESOURCES

For more information on other varieties, visit earthcarpet.com

MIX PERCENTAGES

	 ELITE	 LXQ	 ELITE	 LXQ	 LXQ	 ELITE	 LXQ	 ELITE	 ELITE	 ELITE	 ELITE	SEEDING LBS/1,000 SQ FT	
	Kentucky Bluegrass		Perennial Ryegrass		Annual Ryegrass	Creeping Red Fescue		Chewings Fescue	Hard Fescue	Sheep Fescue	Tall Fescue	NEW	OVER

PROFESSIONAL LANDSCAPE MIXES

choice sun & shade		40		30		15		15				4 - 6	2 - 4
madison parks®		50		25		25						4 - 6	2 - 4
spartan® GRADE A		40		20		20		20				4 - 6	2 - 4
wear-n-tear®		40		40		10		10				4 - 6	2 - 4




GENERAL LANDSCAPE MIXES

park place®		50		25			25					4 - 6	2 - 4
sunny place®		33		34			33					4 - 6	2 - 4
quick-2-gro		25		25	25		25					4 - 6	2 - 4
michigan green®		15		15	35		35					4 - 6	2 - 4
speedy green		25		25	25		25					4 - 6	2 - 4


KENTUCKY BLUEGRASS & PERENNIAL RYEGRASS BASED MIXES

blue carpet®		100										2 - 4	1 - 3
pro-sports®		80		20								3 - 5	2 - 3
sports park OS		50		50								3 - 5	2 - 3
champion				100								6 - 8	3 - 5

SLOPE & SHADE MIXES

care-free						20		20	50	10		6 - 8	3 - 4
shady place®		10		10		30		30	20			5 - 8	3 - 4
low grow fescue							35	25	25	15		4 - 6	2 - 4

TALL FESCUE BASED MIXES

green resistor® 5-way											100	8 - 10	4 - 8
tuff-stuff®		10									90	8 - 10	4 - 8
survivor		15		15		15		15			40	8 - 10	4 - 8
sandy soil		20		15		20					45	8 - 10	4 - 8
athletic tz overseeder		5		15							80	8 - 10	4 - 8



A-List
Approved



































Contains
Enhanced Seed



Elite
Varieties



Branded
Components

HEAT	WEAR	DROUGHT	TRAFFIC	SPREADING TECHNOLOGY	EXTREME RHIZOME EXPRESSION	SHADE TOLERANCE	GENETICS	
4	4	3	4	ST Spreading Technology				Ideal for establishing premium lawns or upgrading existing turf
4	4	3	4	ST Spreading Technology				Ideal for establishing premium lawns or upgrading existing turf
4	4	3	4	ST Spreading Technology				Ideal for establishing premium lawns or upgrading existing turf
4	4	3	4	ST Spreading Technology				Ideal for establishing premium lawns or upgrading existing turf
4	4	3	3					Ideal for home lawns, parks & school grounds
3	3	3	3					Ideal for home lawns & commercial landscapes
3	3	3	3					Ideal for areas needing quick establishment
3	3	3	3					Ideal for the Great Lakes Region & easy on your budget
3	3	3	3					Ideal for areas needing quick establishment
4	5	3	5					Ideal for golf course tees, fairways & fine home lawns
4	5	3	5	ST Spreading Technology				Ideal for sports fields & other high performance areas
4	5	3	4	ST Spreading Technology				Ideal for renovating athletic fields & playgrounds
4	5	3	4	ST Spreading Technology				Ideal for renovating athletic fields & high traffic areas
3	2	4	3				 	Ideal for hillsides, deep roughs, RV parks & cabin sites
3	2	3	3	ST Spreading Technology				Ideal for home lawns with moderate to densely shaded areas
3	2	4	3					Ideal for hillsides, deep roughs, RV parks & cabin sites
5	5	5	5		XRE+ Spreading Tall Fescue			Ideal for home lawns, athletic fields & golf course roughs
5	5	5	5		XRE+ Spreading Tall Fescue		 	Ideal for high traffic, athletic fields & golf course roughs
4	4	5	5	ST Spreading Technology	XRE+ Spreading Tall Fescue		 	Ideal for low maintenance sites
4	4	5	5	ST Spreading Technology	XRE+ Spreading Tall Fescue			Ideal for low maintenance sites
5	5	5	5		XRE+ Spreading Tall Fescue			Ideal for low maintenance sites



Shade
Tolerant



ST Spreading
Technology



XRE **EX**treme **R**hizome
Spreading Tall Fescue **E**xpression



XRE **EX**treme **R**hizome
Spreading Tall Fescue **E**xpression +

Kentucky Bluegrass

Kentucky bluegrass is a cool season grass that grows best during the fall, winter and spring months when temperatures are cool. Its growth slows during the warm summer months. Kentucky bluegrass prefers full sun, but will tolerate some shade. This species is used widely throughout the U.S. where it is well adapted, but it has a poor summer performance in areas with warm to hot temperatures. When stressed by temperatures, lack of water, or poor soils, Kentucky bluegrass can be susceptible to disease and weed invasion. It can tolerate cold winters, but has a relatively low tolerance for heat and is only moderately drought tolerant. During the summer months, if stressed for water, Kentucky bluegrass can go dormant. It has moderate wear tolerance, recovering quickly from some abuse.

La Crosse Seed is a proud business member of DLF Seeds, a global leader in turf and forage seed development. Below is a showcase of the many elite varieties we showcase in our mixes.

Supply production can be volatile across seasons, get your order in early!

AGRONOMIC INFORMATION

USES: Lawns, athletic fields, commercial, golf course, high maintenance. Ideal in sun.

IDENTIFICATION: A dense, sod forming, long-lived, perennial cool season grass that is winter-hardy. Plants spread by rhizomes. Leaf texture is boat shaped to the tip and has a folded leaf vernation (stem) with a smooth top side and a dull underside.

ESTABLISHMENT: Is slow to germinate and slow to establish. Aggressive to spread and fill in once established.

SEEDING RATES:

2 - 4 lbs/1,000 sq ft

GERMINATION:

14 - 28 days*

GROWTH HABIT:

Rhizomes, tillers

APPROX. SEEDS PER LB:

2,200,000

BLADE:

2 - 4 mm, boat-shaped tip

*Under prime conditions



Blade: V-Shaped, boat-shaped tip

Ligule: Clear, cropped

Collar: Smooth, yellowish-green

New Leaf: Folded

TRAITS RELATIVE TO SPECIES TYPE



- High seedling salt tolerance
- Excellent disease resistance & shade tolerance

- High wear & traffic tolerance across wide climate range
- Very dark green genetic color



- Excellent traffic tolerance
- Excellent winter color
- High resistance to summer patch & leaf spot

- Excellent resistance to dollar spot, stem rust & pink snow mold
- Fast germination



- Good disease resistance to summer patch, leaf spot, pythium blight, red thread & yellow ring

- Great wear tolerance
- Excellent resistance to dollar spot



NEW



- Superior drought resistance & recovery
- Fast germination & establishment

- Superior Summer Patch and Stem Rust Resistance
- Wear tolerant with rapid recovery



ONLINE
RESOURCES

For more information on other varieties, visit earthcarpet.com

Perennial Ryegrass

Ryegrasses were brought to the U.S. from Europe and are now grown and planted throughout the country. Ryegrasses (both annual and perennial) can be grown on their own in the northern states for lawns. In many areas of the country, largely because this grass is so versatile, it is incorporated in seeding mixes with other grasses.

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Supply production can be volatile across seasons, get your order in early!

AGRONOMIC INFORMATION

USES: Lawns, athletic fields, golf course, all general use. Excellent when used in mixes. Ideal in sun and tolerates partial shade.

IDENTIFICATION: A fast growing bunch type grass that spreads by tillers (stems). Leaves are dark green and glossy on the underside, tapered, pointed with a folded vernation (stem). Varieties available both as annuals, intermediates and perennials.

ESTABLISHMENT: Germinates and establishes very quickly. Fills by tillers. Popular over-seeder because of quick germ.

SEEDING RATES:

6 - 8 lbs/1,000 sq ft

GERMINATION:

5 - 10 days*

GROWTH HABIT:

Bunch type, tillers

APPROX. SEEDS PER LB:

270,000

BLADE:

2 - 4 mm, glossy underside, red base at crown

*Under prime conditions



Blade:

Flat, sharp tip

Ligule:

Clear, long, cropped

Collar: Narrow

New Leaf: Folded

NEW

SR 4700

PERENNIAL RYEGRASS



- Broad spectrum disease resistance
- Superior recovery from drought

- Developed for permanent turf-grass blends & mixes
- Early spring green up



GLS RESISTANT



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT



PEST RESISTANT

ST
Spreading Technology

FIESTA 4

PERENNIAL RYEGRASS

- Spreading perennial ryegrass
- Gray leaf spot resistant

- Insect resistant
- Wear tolerant



GLS RESISTANT



HEAT/DROUGHT TOLERANT



WEAR/STRESS RESISTANT



PEST RESISTANT

ST
Spreading Technology

SIDEWAYS

PERENNIAL RYEGRASS



- Super-fast germination
- Gray leaf spot resistant

- Insect resistant
- Wear tolerant



BROWN PATCH RESISTANT



GLS RESISTANT



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT



PEST RESISTANT

ST
Spreading Technology

SR 4650

PERENNIAL RYEGRASS

- Early development of spreading rhizomes
- Excellent seedling & mature plant salt tolerance
- Disease resistance results in fewer fungicide applications

- High levels of viable endophyte for insect control & stress tolerance
- Highest gray leaf spot resistance



GLS RESISTANT



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT



PEST RESISTANT

ST
Spreading Technology

NEW

TETRASPORT

PERENNIAL RYEGRASS



- Seedling vigor
- Drought tolerant
- Cold & wear tolerant

- Dark green color
- Germinates under cooler soil temperatures



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT



PEST RESISTANT

NEW

MIGHTIER

PERENNIAL RYEGRASS

- Super-fast germination
- Excellent disease resistance resulting in fewer fungicide applications

- Early development of spreading rhizomes
- Gray leaf spot resistance



BROWN PATCH RESISTANT



GLS RESISTANT



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT

ST
Spreading Technology

ZOOM 2

PERENNIAL RYEGRASS

- Gray leaf spot resistant
- Disease resistance results in fewer fungicide applications
- Quick establishment and wear tolerance

- Early development of spreading rhizomes for excellent wear tolerance



BROWN PATCH RESISTANT



GLS RESISTANT



HEAT/DROUGHT TOLERANT



SALT TOLERANT



WEAR/STRESS RESISTANT

ST
Spreading Technology

4turf® are advanced 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.

Erosion Control - HydroMulch

PROMATRIX

Erosion control for slopes ranging from mild to steep ($\leq 2H:1V$) with a typical application rate of 3500 - 4000 lbs/acre. Once applied and cured, forms an intimate bond with the soil surface to create a continuous, porous, absorbent and flexible erosion-resistant blanket that allows for rapid germination and accelerated plant growth.



FLEXTERRA FGM (FLEXIBLE GROWTH MEDIUM)

Erosion control for slopes ranging from mild to severe ($\leq 0.25H:1V$) with a typical application rate of 3500 - 4000 lbs/acre. Flexterra FGM rapidly sets a standard of excellence for controlling erosion and establishing vegetation on severe slopes.



PROFILE® BLEND

hydraulic mulch combines 100% Thermally Refined® wood fiber with a “best in class” cellulose fiber to deliver enhanced water-holding capacity, allowing for better germination, fewer washouts and reduced callbacks than other blend products.

PROFILE® SPECIALTY BLEND WITH TACKIFIER

Specialty Blend with Tackifier is higher loading compared to traditional blend products (60 lb/100 gal compared to 50 lb/100 gal). It's easy to mix and shoot with virtually any type of hydroseeder. The Thermally Refined® wood fiber content provides enough yield and coverage to handle moderate slopes which makes it a good all-around performer at an economical price.



PROFILE® 100% WOOD

Profile® Wood is a fully biodegradable, Hydraulic Mulch (HM) composed of 100% recycled, Thermally Refined™ virgin wood fibers derived from whole wood chips. The HM is phytosanitized, free from plastic netting, and upon application forms an intimate bond with the soil surface to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.

100% WOOD WITH TACK

Profile® Wood with Tack is a fully biodegradable, Hydraulic Mulch (HM) composed of 100% recycled, Thermally Refined™ virgin wood fibers and wetting agents (including high-viscosity colloidal polysaccharides). The HM is phytosanitized, free from plastic netting, and upon application forms an intimate bond with the soil surface to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.



PROFILE CELLULOSE MULCH (100% PAPER)

Profile® Cellulose Mulch is a fully biodegradable, Hydraulic Mulch (HM) composed of 100% recycled cellulose fibers. The HM is phytosanitized, free from plastic netting, and upon application forms an intimate bond with the soil surface, to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.

PROFILE CELLULOSE MULCH (100% PAPER) WITH TACK

Profile® Cellulose with Tack is a fully biodegradable, Hydraulic Mulch (HM) composed of 100% recycled cellulose fibers and wetting agents (including high-viscosity colloidal polysaccharides). The HM is phytosanitized, free from plastic netting, and upon application forms an intimate bond with the soil surface, to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.



COVERGROW™

CoverGrow™ is an advanced technology granular mulch made from recycled wood and cellulose fibers. Once applied to a seeded area and activated by water, the granules quickly expand and disperse to provide outstanding protection and water-holding performance right where it's needed. Whether you're spot treating smaller bare spots or hydroseeding larger areas, CoverGrow™ is the easy and convenient way to establish vegetation.



TACKING AGENT 3

Typical application rate of 30 - 60 lbs/acre. Requires no cure time to be effective! University tests and field use prove it effectively reduces soil erosion and water runoff immediately after hydroseeding. Also increases the water holding capacity of all types of hydraulic mulches.



PAM-12 Plus® can also be used as hydromulch. See opposite page for details.



Erosion Control - Granular

EZ Mulch Plus

EZ Mulch Plus combines cellulose mulch with long strand corn stover along with an organic high-strength tackifier that biodegrades adding beneficial organic matter to soil.

- User-friendly alternative to messy, laborious straw mulch.
- High-Strength organic tackifier bonds fibers together to prevent erosion and maintain a microenvironment for seed germination and growth.
- Granular texture provides excellent coverage, making it more economical than other pelleted mulches.
- Granules expand as they absorb water.
- Contains no grass seed and can be used in combination with almost all seed types.
- Contains a dark green color makes it easy to apply while enhancing site appearance.
- EZ Mulch will mix in a hydroseeder more quickly than most baled mulches and can be used in a jet agitator machine.

APPLICATION

- Prepare soil and spread grass seed and soil amendments according to directions on package.
- Spread or hydraulically apply EZ Mulch over seeded area at a rate of 50-70 lbs per 1000 sq ft.
- Water EZ Mulch pellets (if dry applied) to expand cover and protect the seeded ground.
- Water seeded area daily. Seeds will germinate while EZ Mulch biodegrades adding organic content to your soil.

SLOPE

5:1

4:1

≤ 3:1 (Max Length 25 ft)

3:1

LBS/1,000 SQ. FT.

50

60

70

Use EarthGuard® Edge Pelletized Erosion Control product.

BAG SIZE 50 LB.

Additional Erosion Control Products

BLANKETS & BIO LOGS

Ero 1S (straw blanket)	8' x 112.5' = 100 sq. yards
Ero 2S (straw blanket)*	8' x 112.5' = 100 sq. yards
EG (70% straw/30% coconut)*	8' x 112.5' = 100 sq. yards
C32 (100% coconut)*	8' x 112.5' = 100 sq. yards
Futerra® Natural (wood fiber)	6.83' x 135' = 102.5 sq. yards
Bio Sediment Logs	9' x 25'
Straw Wattles	9" x 20' & 12" x 25'

*Double Netted Products

RIP RAP FABRIC

Heavy (12 oz.)	15' x 300' = 500 sq yds/roll
Medium (8 oz.)	15' x 300' = 500 sq yds/roll
Light (7 oz.)	15' x 300' = 500 sq yds/roll
Very Light (4 oz.)	12.5' x 360' = 500 sq yds/roll 15' x 360' = 600 sq yds/roll

OTHER PRODUCTS

Dimex Pro Lip Edging	20' strips with stake kits
Weed Barrier	3' x 300' = 100 sq yds
Weed Barrier	4' x 300' = 133.33 sq yds
Weed Barrier	6' x 300' = 200 sq yds
Stake Kits	4 Stakes + 1 connector/pkg
Staples (6"/4")	1 Box = 1,000 staples
Round Top Staples	1 Box = 1,000 staples
Silt Fence	3' x 100'

CURLEX BLANKETS AVAILABLE ON REQUEST

**WE CARRY A FULL LINE OF EROSION PRODUCTS.
FOR MORE INFORMATION, CALL 800.356.SEED.**

BRIER RIDGE® Food Plot Seed

Brier Ridge® and Deer Creek Seed products have been formulated to provide superior performance in establishing, attracting and keeping those trophy bucks, turkeys and upland birds on your property.

SEEDING RATE (LBS/ACRE)							BAG SIZE (LBS)							BRASSICAS							LEGUMES							GRASSES							FORBS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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PERENNIAL		8* (Drilled)		10 (Brdcast)		5 & 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS	ANNUAL/ PERENNIAL	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS
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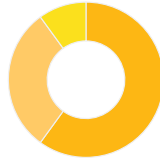
ANNUAL MIXES

ANNUAL HABITAT HIDE-A-WAY

ANNUAL	10* (Drilled)	12 (Brdcast)	10									
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- Summer annual mix planted as bedding/buffer source
- Performs well on light to heavy soil types in light shade to full sun
- Quick to establish, requires 60 - 65°F soil temps for planting/germination, annual alternative to *Perennial Habitat Hide-A-Way*
- Can reach heights up to 8 ft tall

60% Summer Select® Forage Sorghum
30% Wildlife Grain Sorghum
10% Wildlife Sunflowers



*Seed at 1" Depth

RUT N READY

ANNUAL	6* (Drilled)	8 (Brdcast)	4 & 8									
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- Early fall planted annuals offer early/late fall food source
- For light to heavy soil types in light shade to full sun
- Brassicas remain green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost, sugars flush vegetative growth after frost for appealing food source
- Brassicas attract deer early fall & after killing frost

30% Tillage Radish®
20% Rapeseed
20% Purple Top Turnips
10% Forage Kale
10% Vivant Brassica
10% Forage Collards



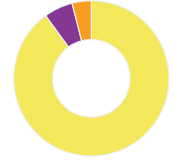
*Seed at 1/4" Depth

AUTUMN ENERGY

ANNUAL	40* (Drilled)	50 (Brdcast)	25									
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- Early fall planted annual species offering early/late fall food source
- Performs well on light to heavy soil types in light shade to full sun
- Portion remains green until air temps reach 10 - 15°F
- Optimally planted 6 - 8 weeks prior to killing frost

90% Plotspike® Oats
6% Tillage Radish®
4% Purple Top Turnips



*Seed at 1/4" Depth















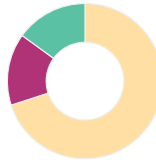
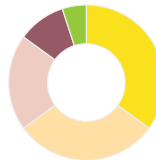


DEER CREEK SEED CO.

SEED CO.													
SEEDING RATE (LBS/ACRE)		BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS	SEEDING RATE (LBS/ACRE)		BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS
PERENNIAL													
PERENNIAL PLUS CLOVERS													
PERENNIAL	8* (Drilled)	12 (Brdcast)	5 & 25				PERENNIAL	8* (Drilled)	12 (Brdcast)	5 & 25			
<ul style="list-style-type: none">Spring/fall/frost planted perennial mix offering year-round food sourcePerforms well on medium to heavy soil types in light shade to full sunIncludes high energy legumes that will thrive in various geographical locationsChicory will thrive during summer months						<div><div></div><div></div><div></div><div></div></div> <div><div>25%</div> Chicory</div> <div><div>25%</div> Ladino White Clover</div> <div><div>20%</div> Red Carpet XL 990 Red Clover</div> <div><div>15%</div> Dutch White Clover</div> <div><div>15%</div> NZ White Clover</div>	<ul style="list-style-type: none">Spring/fall/frost planted perennial mix offering year-round food sourcePerforms well on medium to heavy soil types in moderate shade to full sunIncludes high energy legumes that will thrive in various geographical locationsWhite clovers will fill in areas of overgraze due to stolon root system						<div><div></div><div></div><div></div><div></div></div> <div><div>25%</div> Alsike White Clover</div> <div><div>25%</div> Dutch White Clover</div> <div><div>25%</div> Ladino White Clover</div> <div><div>25%</div> NZ White Clover</div>



DEER CREEK SEED Co.

SEED CO.							SEED CO.							
SEEDING RATE (LBS/ACRE)		BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS	SEEDING RATE (LBS/ACRE)		BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS	
ANNUAL/PERENNIAL														
AUTUMN BUFFET							SPRING GREENS ELITE							
ANNUAL/ PERENNIAL	8* (Drilled)	12 (Brdcast)	5 & 25				ANNUAL/ PERENNIAL	40* (Drilled)	50 (Brdcast)	5 & 25				
<ul style="list-style-type: none">Early fall planted annual/perennial mix offering multi-year food sourcePerforms well on medium to heavy soil types in light shade to full sunMultiple species for maximum grazing tolerance into late fall & clovers will overwinter				<ul style="list-style-type: none">20% Elite Forage Brassica20% Trophy Rapeseed15% Winfred Forage Brassica15% Forage Turnip10% Ladino White Clover10% NZ White Clover10% Red Carpet XL 990 Red Clover			<ul style="list-style-type: none">Late Spring/Summer/fall planted annual/perennial mix offering multi-year food sourcePerforms well on light to heavy soil types in light shade to full sunMultiple species for maximum grazing quality & protects soil from nutrient loss				<ul style="list-style-type: none">10% Balansa Clover10% Buckwheat10% Trophy Rapeseed10% Forage Soybean10% NZ White Clover10% Med Red Clover10% Peredovik Black Sunflower10% Sunn Hemp10% Sorghum Sudangrass10% Italian Ryegrass			
														
*Seed at ¼" Depth							*Seed at ¼" Depth							
ANNUAL														
QUAD PRO BEAN							SANDY SURE SHOT							
ANNUAL	40* (Drilled)	50 (Brdcast)	5 & 25				ANNUAL	25* (Drilled)	35 (Brdcast)	5 & 25				
<ul style="list-style-type: none">Spring/Fall planted annualPerforms well on light to heavy soil types in light shade to full sunFast growing, high protein mix with forage and vining soybeansMatures in approximately 60 days				<ul style="list-style-type: none">70% 2 Forage Soybean Varieties15% Lablab15% Cowpea			<ul style="list-style-type: none">Late Spring/Summer/Fall planted annualFormulated to persist in light sandy and dryland soil conditionsAttracts deer and other avian wildlife				<ul style="list-style-type: none">35% Peredovik Black Sunflower30% Forage Soybean20% Buckwheat10% Berseem Clover5% Winfred Forage Brassica			
														
*Seed at 1" Depth							*Seed at ½" Depth							





DEER CREEK SEED CO.

BRASSICAS

LEGUMES

GRASSES

WILD
FLOWERSANNUAL/
PERENNIALSEEDING RATE
(LBS/ACRE)BAG
SIZE
(LBS)

BRASSICAS

LEGUMES

GRASSES

FORBS

SEEDING RATE
(LBS/ACRE)BAG
SIZE
(LBS)

ANNUAL

TRIPLE TREAT

ANNUAL **12*** **15**
(Drilled) (Brdcast) **5 & 25**



- Spring/Fall Planted annual clover blend
- Performs well on medium to heavy soil types in light shade to full sun
- Nitrogen fixing and biomass producing mix excellent for plot rotation
- Triple purpose food source, soil health, nitrogen building

40% Balansa Clover
40% Berseem Clover
20% Crimson Clover



*Seed at ¼" Depth

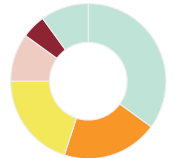
WETLAND WATERFOUL

ANNUAL **15*** **20-25**
(Drilled) (Brdcast) **5 & 25**



- Late spring/summer planted annual and perennial blend
- Performs well on light to heavy soil types in light shade to full sun
- Quick to establish, requires 60-65° F soil temps for planting/germination
- Ideal attractant for waterfowl and other avian species

35% Japanese Millet
20% Forage Sorghum
20% Spring Oat
10% Buckwheat
10% Proso Millet
5% Alsike Clover



*Seed at ¼-½" Depth

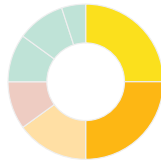
GAME BIRD MIX

ANNUAL **15*** **20**
(Drilled) (Brdcast) **5 & 25**



- Late spring/summer planted annual
- Performs well on light to heavy soil types in light shade to full sun
- Quick to establish, requires 60-65° F soil temps for planting/germination
- Ideal attractant for upland game birds and other avian species

25% Peredovik Black Sunflower
25% Dwarf Grain Sorghum
15% Forage Soybean
10% Buckwheat
10% Japanese Millet
10% Pearl Millet
5% Proso Millet



*Seed at ½" Depth

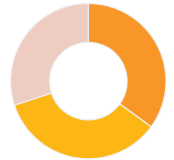
SILVER SCREEN

ANNUAL **25*** **30**
(Drilled) (Brdcast) **5 & 25**



- Late spring/summer planted annual for bedding/buffer source
- Performs well on light to heavy well-drained soil types in light shade to full sun
- Quick to establish, requires 60-65° F soil temps for planting/germination
- Can reach heights up to 8-10 ft tall

35% Forage Sorghum
35% Grain Sorghum
30% Egyptian Wheat



*Seed at 1" Depth

BRASSICA BLEND

ANNUAL **8*** **5 & 25**



- Early fall planted annuals offer early/late fall food source
- Performs well on light to heavy soil types in light shade to full sun
- Brassicas remain green until air temps reach 10-15° F
- Optimally planted 6 - 8 weeks prior to killing frost, sugars flush vegetative growth after frost for appealing food source early and into late fall/winter

20% Winfred Forage Brassica
20% Rapeseed
20% Elite Forage Brassica
15% High Performance Turnip
15% Forage Turnip
5% Rutabaga
5% Forage Kale



*Seed at ¼" Depth

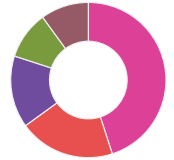
BEE & SWEETS

ANNUAL **10*** **12**
(Drilled) (Brdcast) **5 & 25**



- Early fall planted annuals offer early/late fall high sugar food source
- Performs well on light to heavy soil types in light shade to full sun
- Quick to establish brassicas remain green until air temps reach 10-15° F
- Optimally planted 6 - 8 weeks prior to killing frost, sugars flush vegetative growth after frost for appealing food source early and into late fall/winter





45% Sugar Beet
20% Swiss Chard
15% Forage Turnip
10% Forage Kale
10% Berseem Clover



*Seed at ¼" Depth



DEER CREEK SEED Co.

SEEDING RATE (LBS/ACRE)		BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS	ANNUAL/ PERENNIAL	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	FORBS
ANNUAL													
PRIME TIME BRASSICA							SUCCULENT SUCCOTASH						
ANNUAL	10*	5 & 25					ANNUAL	10* (Drilled)	20-25 (Brdcast)	5 & 25			

- Early fall planted annuals offer early/late fall food source
Performs well on light to heavy soil types in light shade to full sun
- Quick to establish, brassicas remain green until air temps reach 10-15° F
- Optimally planted 6-8 weeks prior to killing frost, sugars flush vegetative growth after frost for appealing food source early and into late fall/winter

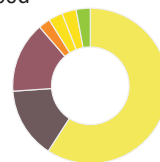
25% Daikon Forage Radish
25% Elite Forage Brassica
25% Forage Turnip
25% Winfred Forage Brassica



*Seed at ¼" Depth

- Early fall planted annuals offer early/late fall food source
Performs well on light to heavy soil types in light shade to full sun
- Compounding benefits from cereal grains, clovers, and forage brassicas
- Optimally planted 6-8 weeks prior to killing frost, sugars flush vegetative growth after frost for appealing food source early and into late fall/winter

60% Arctic Brand Forage Oat
15% Balansa Clover
15% Berseem Clover
2.5% Daikon Oilseed Radish
2.5% Rapeseed
2.5% Elite Forage Brassica
2.5% Giant Rapeseed



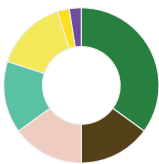
*Seed at ¼" Depth

ALL SEASON MIX

ANNUAL	50*	25 & 50				
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- Early fall planted annuals offer early/late fall food source
- Performs well on light to heavy soil types in light shade to full sun
- Winter Rye will overwinter providing addition food source following spring
- Optimally planted 6-8 weeks prior to killing frost, large biomass production for food source early and into late fall/winter for areas of heavy feeding pressure

35% Winter Rye
15% Barley
15% Buckwheat
15% Forage Pea
15% Spring Oat
2.5% Rapeseed
2.5% Forage Turnip



*Seed at ¼" Depth

Deer Creek Species Offered in Small Packs (5 Lb)

Legumes	Grasses	Broadleaves
Med Red Clover	Egyptian Wheat	Buckwheat
Alsike Clover	Deer Field Corn	Chicory
Berseem Clover	Japanese Millet	Forage Kale
Ladino Clover	Pearl Millet	Tillage Radish
Reisling Intermediate White Clover	High Sugar Perennial Ryegrass	Rapeseed
Alfalfa PI	Wildlife Grain Soghum (Dwarf)	Rutabaga
Birdsfoot Trefoil	Sweet Corn (Deer)	Swiss Chard
Yellow Blossom Sweet Clover	Winter Rye	Forage Soybean
		Sugar Beet
		Peredovik Black Oilseed Sunflower
		Purple Top Turnip
		Seven Top Turnip

So what do those three fertilizer numbers mean? They represent three nutrients essential to strong, healthy turfgrass: nitrogen, phosphorus and potassium (potash). In a fertilizer analysis, these three nutrients are always listed in the same order. An easy way to remember what those nutrients do is “up, down, all around.”

- **NITROGEN (N) - UP** promotes dark green color and increases leaf and stem growth.
- **PHOSPHORUS (P) - DOWN** stimulates early root formation and growth and prepares grass for dormancy and winter hardiness.
- **POTASSIUM OR POTASH (K) - ALL AROUND** provides overall health to grass, increasing resistance to disease and drought stress.

SIGNS OF NITROGEN DEFICIENCY

Nitrogen is represented by the first number. Telltale signs of nitrogen deficiency are:

- Overall reduction in plant growth
- Loss of green color, yellowish-green color starting at the leaf tips
- Thinning of plants, overall plant density & coverage decreases

THERE ARE TWO TYPES OF NITROGEN FERTILIZERS:

FAST RELEASE AND SLOW RELEASE

- Fast release is typically found in agricultural fertilizers
 - Works for 7 - 12 days
 - It's fast acting - almost too fast for turfgrass because nutrients often pass on through soil before roots can absorb them
- Slow release is optimal for turfgrass
 - Works for 3 - 12 weeks
 - Nutrients stay in root zone long enough for plant to absorb them, so less is wasted

SIGNS OF PHOSPHORUS DEFICIENCY

Phosphorus, the second number, is a key nutrient in seed starter fertilizers because it stimulates root growth. Telltale signs of phosphorus deficiency are:

- Dark green color on lower leaves only
- Purplish color on leaf edges
- Spindly, weak growth
- Little to no root system formed

2 BIG QUESTIONS TO ASK WHEN CHOOSING FERTILIZER:

1. What are the results of your soil analysis?
2. What, if any, problems have you experienced in the past with this lawn (yellowing or failure to thrive)?



TEST, DON'T GUESS – There's simply no substitute for a soil test. Soil testing identifies what the soil needs and doesn't need, such as more lime or less potassium. It offers clues as to which seeds and fertilizer will give customers the best results. It only takes minutes, but the benefits last all season long.

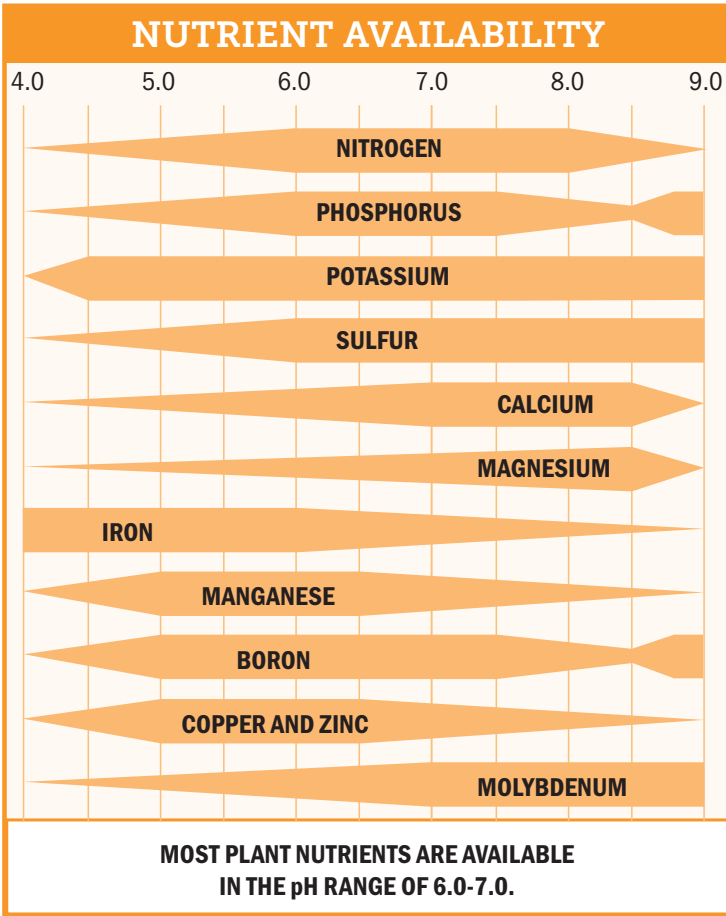
SIGNS OF POTASSIUM DEFICIENCY

Potassium, the third number, contributes to overall health and enables the plant to tolerate heat, drought, cold and wear. It also aids in disease resistance. Potassium deficiency isn't always easy to detect:

- Overall reduction in plant growth
- Loss of green color, yellowish-green color starting at the leaf tips
- Thinning of plants, overall plant density & coverage decreases

IDEAL PH FOR TURFGRASS IS 6.5 - 6.8

Ideal pH means plants have the maximum ability to use the nutrients from soil. Otherwise, it's as if the nutrients are locked up and unavailable for the plants, so the plants can never reach their full potential. Fortunately, there are ways to correct pH balance. Lime raises soil pH. Granulated sulfur lowers soil pH.



Reference

Coverage Areas

GOLF COURSE

Green 4 - 7,000 sq ft
Tee 3,000 - 8,000 sq ft
Fairway 3 - 6 acres

FOOTBALL FIELD

160' x 360' = 57,600 sq ft

BASEBALL DIAMOND

Infield area - 90'x90' = 8,100 sq ft
Home plate to L 300' - 360'
Home plate to C 360' - 410'
Home plate to R 300' - 360'
Mound to home plate = 60'6"
Home plate to 1st = 90'
Home plate to 2nd 127' 3 3/8"
Home plate to 3rd 90'

TENNIS COURT

Regulation 78'x 36' = 2,808 sq ft
Full 120' x 60' = 7,200 sq ft

SOCCER PITCH

Small 195' x 330' = 64,350 sq ft
Large 225' x 360' = 81,000 sq ft

RUGBY PITCH

328' x 226' = 74,128 sq.ft.

HOCKEY PITCH

Small 301' x 164' = 49,364 sq.ft.
Large 300' x 180' = 54,000 sq.ft.

CRICKET SQUARE

90' x 90' = 8,100 sq.ft.

CROQUET

75' x 40' = 3,000 sq.ft.

LAWN BOWLING

Minimum 110' x 110' = 12,100 sq.ft.
Maximum 125' x 110' = 13,750 sq.ft.

VOLLEYBALL

30' x 60' = 1,800 sq.ft.

Metric Conversion

AREA

1 Hectare (ha) = 107,640 sq ft
1 Hectare (ha) = 2.471 acres
1 Square meter (sq m) = 10.76 sq ft
1 Square centimeter (sq cm) = 0.1549 sq in
1 Square mile (640 acres) = 259 ha
1 Acre (43,560 sq ft) = 0.4047 ha
1 Square foot = 0.0929 sq m
1 Square inch = 6.452 sq cm

LENGTH

1 Kilometer (km) = 0.6214 mi
1 Meter (m) = 3.281 ft
1 Meter (m) = 39.37 in
1 Centimeter (cm) = 0.03937 in
1 Millimeter (mm) = 0.0393701 in
1 Mile = 1.609 km
1 Foot (12 in) = 0.3048 m
1 Inch = 2.540 cm

TEMPERATURE

(°C x 1.8) + 32 = °F
(°F - 32) x 555 = °C

YIELD

1 Metric ton/ha = 0.446 US ton/ac
1 Kilogram/ha = 0.892 lbs./acre
1 US ton/acre = 2.242 mt/ha

WEIGHT

1 Metric ton (mt) = 1.102 US tons
1 Kilogram (kg) = 2.205 lbs
1 Gram (g) = 0.30327 oz

HELPFUL CONVERSION

Pounds per 1,000 sq ft to g/sq m
Multiply pounds by
4.8826 = g/sq m

Pounds per acre to kg/ha
Multiply pounds by 1.12

Planting or Renovating Your Lawn

Follow these simple steps for starting a successful lawn.

1. **Measure area to be seeded** - Total square footage of lot less non-lawn areas such as house, walkways and gardens.
2. **Test, don't guess!** - Obtain soil test to identify essential soil needs/amendments (lime, potassium, phosphorus, etc).
Add needed amendments per test.
3. **Select appropriate Earth Carpet® seed mix** - Consult with your dealer for the Earth Carpet® mix right for you.
4. **Spray out lawn with herbicide containing glyphosate** - Follow manufacturer's directions for proper use!

CONTINUE TO NEW LAWN OR RENOVATION STEPS ►

NEW LAWN STEPS

5. **Rough Grade** - Remove golf ball size+ rocks or debris. Lot slope should move downhill from house to lot edge. Level high/low areas.
6. **Final Grade** - Rake and smooth. Apply a fine mist from hose to soil before seeding. No puddles should form.

OVERSEEDING STEPS

5. **Scalp lawn down as close as possible** - Mow as low as possible without stalling mower. Rake and remove clippings.
6. **Core aerate lawn to encourage abundant root growth. Plant new seed no deeper than 1/8 inch deep with mechanical planting equipment** - Equipment should be available for rental in your area.
7. **Apply seed evenly in two directions** - First north & south then west & east. Use seeding rate appropriate for your mix.
8. **Apply starter fertilizer** - Important for root development.
9. **Roll surface** - Use an unfilled lawn roller to firm, but not over pack, the soil surface.
10. **Irrigate frequently at least 3 times/day for 6 weeks** - Keep top ½ inch of soil moist, not soaking. Pay attention that soil does not dry in afternoon heat.
11. **Apply 2nd application of starter fertilizer 3 weeks after seeding (CRUCIAL).**
12. **Begin weekly mowing when at 1 ½ to 2 inches** - Set height to 1 ½ inches. Mowing right after irrigation may hurt seedlings.
13. **Raise mowing height to 3 to 3 ½ inches after 6 weeks** - Never remove more than ⅓ of grass blade at a time.
14. **Begin standard fertilization/irrigation programs at 8 weeks** - Do not apply weed control products until lawn has been mowed at least 4 times & 8 weeks has passed.



General questions
can also be sent to
info@laxseed.com

Placing an Order Has Never Been Easier:

Our Customer Support Center is your link to our team of Sales Support Specialists (SSS). They are ready and willing to support you in any way they can. Specifically, our team can answer any questions you may have about orders, shipping, invoicing or marketing support.



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Sales Support Specialist
800.356.SEED



E-mail: Send your orders to
orders@laxseed.com and
our team will confirm it with
you before shipping.

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