

WHEN YIELD AND QUALITY MATTER®

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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 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 fiber digestibility (dNDF) = +0.55 lbs milk per cow per day, or 0.053 lbs of live weight gain 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.



ABOUT FORAGE FIRST®

GREATER VALUE. GOOD MOVE.

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 topperforming 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.

LA CROSSE SEED + DLF: SEEDS & SCIENCE, DELIVERED

DLF and La Crosse Seed have worked in synergy since 2018, when DLF acquired La Crosse Seed. DLF (Dansk Landbrugs Frøselskab), which translates to the "Danish Farmers Organization's Seed Supplier," was founded in 1872. DLF is owned by 3,000 growers specializing in growing and developing forage and turf seeds.

DLF is a global leader in the development of innovative forage products. DLF's US business is headquartered in Albany, Oregon together with a large portion of DLF's North American research and seed production activities. DLF operates a distribution focused division through La Crosse Seed which includes

strategically placed warehouses across the United States.

With our synergistic approach, you are supported by a worldwide organization with a tremendous passion for innovation and commitment to helping deliver the absolute best forage products. As we move forward, our goal is to provide continuity to the alfalfa products you have been accustomed to sourcing along with all the other forage, cover crop, and other specialty seed products you may require.

WE ENHANCE OUR SEED

La Crosse Seed's portfolio of elite alfalfas and other legumes include seed enhancement and treatment options to optimize germination, nodulation and promote early-season health and root development – allowing more seedlings to survive and reach their full genetic potential.



Forage First® species that will include CrosseCoat™ are denoted throughout this guide with the CrosseCoat™ symbol.



IMPORTANT FORAGE CONSIDERATIONS

There are many aspects to consider to ensure the highest potential and productivity for your land and your animals. Our team has significant experience in the forage industry, and many agronomic resources on hand to increase your opportunity for success.

Visit foragefirst.com for more information on important forage considerations including:

- Importance of fertility
- Nutritional information
- Herbicide interactions
- · And much more!
- · Livestock safety

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.









GROWING WITH DLF

Our customers demand a lot from their seed: yield, forage quality, winterhardiness 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.

Touchet, Washington USA



Port Hope, Ontario Canada



West Salem, Wisconsin USA



Philomath, Oregon USA

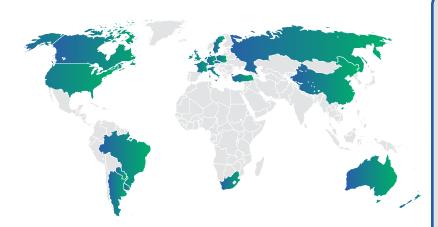


Berry, Kentucky USA



THE WORLD OF DLF

The presence of DLF breeding and testing facilities in the largest production and utilization areas ensures that our products are well adjusted, tried and tested in local climatic conditions.





850 EMPLOYEES work

in DLF's Turf and Forage Division worldwide



11% OF DLF'S WORKFORCE is employed in

research and development



1,600+ VARIETIES have

been released and commercialized through this effort

OUR CUSTOMERS CAN

COUNT ON GROWTH

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

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



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



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



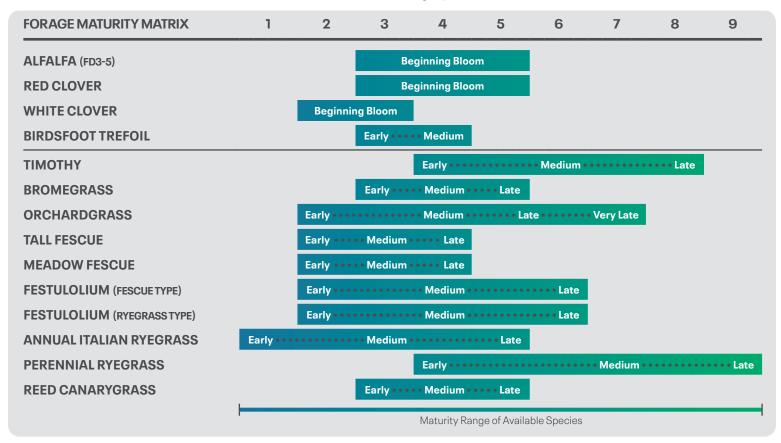
7th largest seed company in the world

FORAGE MATURITY MATRIX

DLF's Forage Maturity Index has been designed to accommodate the broader range of species and maturities utilized in the North American forage industry. It has a 9 point index with a maturity difference of approximately 3 days per unit, reflecting Oregon conditions. Variance with this index may occur in different regions since some cultivars are more temperature dependent, while others may be more day length dependent in maturity.

With all species using the same Maturity Index Rating System,

the maturity range of various forage species can now be directly compared on the same chronological maturity index (the grey index scale at the top of the matrix). The gradient blocks in the Forage Maturity Matrix Species reflect the maturity range of available varieties within the species. The respective maturity of public varieties using the traditional nomenclature of early/medium/late is superimposed on the index. A maturity index in one species corresponds to the same maturity in another forage species.





Premium Seed Enhancement + Quality Seed = Best Possible Seedling Establishment

CrosseCoat™ is an elite platform of proven seed treatments to enhance germination, establishment and survival of the top legumes, offered within the Forage First® portfolio.

CrosseCoat™ Benefits Include:

- · Improves seeding distribution
- · Improves seed-to-soil contact
- · Improves water intake

- Protects against fungal attacks
- · Enhances nutrient uptake
- Enhances nodulation to provide superior nitrogen fixation

COATING ABBREVIATIONS (as noted on La Crosse Seed pricelist and seed tags)*

CTD	Coated Only
CPF	Coated, Pre-Inoculated, and Fungicide
CP	Coated, Pre-Inoculated
Pl	Pre-Inoculated, No Coating or Fungicide

34% COATED SEED - RECOMMENDED SEED RATES

Coated seed items or mixes with coated seed have same recommended seeding rates as they would if non-coated

CLOVER & OTHER LEGUMES

3-YEAR RED CLOVER

FORAGE FIRST® FACTOR: Red clover resilience (or lack thereof) is typically triggered by diseases that affect crown health. Most common red clovers (medium red clover included) typically persist for a couple of years before they fall victim. In many cases, a 2-year stand of clover fits the cropping cycle, delivering forage in a brief timeframe and providing a valuable nurse or relay crop for the ensuing cash crop. However, when the rotation allows, it makes sense to incorporate a 3-year clover. 3-year clovers have a stronger resistance to crown diseases that enables persistence into a 3rd year (or 2 years removed from the seeding year). The additional year provides at least 1 spring cutting, if not multiple harvests to greater supplement hay stocks.

REDKIN







- Selected for persistence & disease resistance

• High forage quality & yield potential

•3 year yield performance

RED CARPET® XL 990



- Best utilized for silage or spring hay
 - Increased disease resistance to southern anthracnose & downy mildew
- May produce 3 cuttings on second-year stands
- · Works well in rotational grazing programs

ALSIKE CLOVER

RADIUM XL



- Withstands heavy grazing pressure, but merits management for success (see "What Forages are Safe for Animals" at foragefirst.com)
- Tolerant to poorly drained soils
- Survives in poor pH soils

BALANSA CLOVER

FIXATION



- · High yield and quality potential
- Excellent palatability and digestibility
- Tolerant of a variety of soil types

BERSEEM CLOVER

FROSTY



- · Excellent companion to alfalfa
- Quick establishment

- High forage quality
- Similar dry down to alfalfa

RED CLOVER

ESTABLISHMENT	FAST
PERSISTENCE	LOW
DROUGHT TOLERANCE	MED LOW
WINTER HARDINESS	MED HIGH
PALATABILITY	MED
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	MED

PLANTING TIMES

SPRING PLANTING	FEB - MAY
FALL PLANTING	AUG - OCT
LIFE CYCLE	PERENNIAL

SEEDING RATE (LBS/ACRE)

	ALONE	8 - 12
١	MIXES	4 - 8

HARVEST MANAGEMENT

Harvest at 1/4 - 1/2 bloom; leave at least 3-4" of growth after each harvest

ALSIKE CLOVER

ESTABLISHMENT	FAST
PERSISTENCE	MED
DROUGHT TOLERANCE	LOW
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	HIGH

PLANTING TIMES

SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - OCT
LIFE CYCLE	PERENNIAL

SEEDING RATE (LBS/ACRE)

	,	
ALONE		6-8
MIXES		2 - 4

BALANSA & BERSEEM CLOVER

ESTABLISHMENT	MED FAST
PERSISTENCE	MED
DROUGHT TOLERANCE	MED LOW
WINTER HARDINESS	LOW
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	MED

PLANTING TIMES

2 - 4

SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - OCT
LIFE CYCLE	ANNUAL

SEEDING RATE (LBS/ACRE)	BALANSA	BERSEEM
ALONE	5 - 8	15 - 25
MIXES	3 - 5	7 - 12
MIXES	3-5	/ -

ESTABLISHMENT	FAST
PERSISTENCE	MED
DROUGHT TOLERANCE	MED LOW
WINTER HARDINESS	MED HIGH
PALATABILITY	MED HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	MED

INTERMEDIATE WHITE / LADINO CLOVER

PLANITING TIMES

MIXES

I LANTINO TIMLO	
SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - OCT
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	4-6

BIRDSFOOT TREFOIL

ESTABLISHMENT	SLOW
PERSISTENCE	HIGH
DROUGHT TOLERANCE	HIGH
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	MED
GRAZING TOLERANCE	HIGH

PLANTING TIMES

SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - OCT
LIFE CYCLE	PERENNIAL

SEEDING RATE (LBS/ACRE)

ALONE	8 - 10
MIXES	4 - 5

ICON KEY



INTERMEDIATE WHITE CLOVER

RIESLING



- High stolon density
- Medium to large leafed white clover
- Extended grazing potential during colder months
- Yield of ladino, persistence of intermediate

LADINO CLOVER

ORION XL



- Large white clover offering increased quality & protein digestibility
 - Good regrowth following grazing
 - •Tolerates fall usage better than red clover
- Easy to establish
- Superior winter hardiness
- •Tolerates low pH soils

NEW

HESLOP



- •Selected for improved plant vigor and persistence •Uniform plant type
- · Larger leaf size, and high stolon density

BIRDSFOOT TREFOIL

LOTUS XL



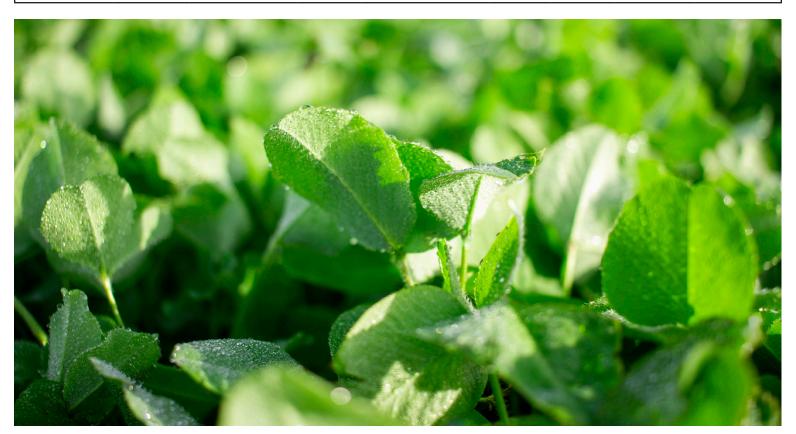
- Tolerant of poorly drained, low pH soils
- High disease resistance

- Fast recovery after cutting
- •Upright growth habit

DIFFERENCES BETWEEN 3-YEAR RED CLOVERS & COMMON MEDIUM RED								
VARIETY	APPROX. COST/LB	LBS PLANTED/ACRE (OVERSEEDING)	SEED COST	3-YEAR TONNAGE ESTIMATION*	YIELD VALUE†	N FIXATION & VALUE‡	TOTAL VALUE	NET RETURN/ACRE
Redkin 3-Year Red Clover	\$3.80	12	\$45.60	1.25 tons/year = 3.75	\$543.75	\$43.20	\$586.95	\$541.35
FF Red Carpet 3-Year Red Clover	\$2.50	12	\$30.00	1.0 tons/year = 3.0	\$435.00	\$43.20	\$478.20	\$448.20
Medium Red Clover	\$1.90	12	\$22.80	0.75 tons/year = 1.5**	\$326.25	\$28.80	\$355.05	\$332.25

^{*}With better disease tolerance and crown health, one could easily assume 3-year clovers will outyield medium red in years 1 & 2 as well

‡Based on Commercial Nitrogen @ \$.48/LB



^{**}Medium Red Clover only has 2 years of production in a 3-year period

[†]Based on \$145/ton

FORAGE GRASSES

ANNUAL RYEGRASS

FORAGE FIRST® FACTOR: Integrating annual ryegrass in the forage system requires the understanding that spring management will be paramount, depending on forage utilization. Dozens of annual ryegrass varieties exist, so make 100% sure the selection matches the goal and management style of the producer. Improved varieties offer greater winter tolerance and improved forage yields with added pest resistance.

COLDSNAP™



- •Suitable for grazing or silage in fall (&/or spring in areas where it overwinters)
- · Heavy dry matter producer with outstanding quality
- · Widely adapted for forage production in Upper Midwest through Transition Zone
- Great for extending legume stands or emergency forage

ITALIAN RYEGRASS

FORAGE FIRST® FACTOR: Greater persistence mixed with better forage flexibility are reasons growers use Italian Ryegrass. During the establishment year, Italian types remain vegetative, but will act as an annual after winter vernalization in year two and need to be managed as such. Italian ryegrass is highly palatable with high leaf to stem ratio, providing higher digestibility. Improved varieties bring better winter hardiness and greater forage yield.

TETRABANA XL



- Tetraploid with high palatability
- Rapid establishment-ideal for green chop or silage, intensive grazing, renovating pastures & frost seeding
- Excellent for high-traffic or wet pastures
- · High yielding & top feed quality

GRASSHANCER 200



- **DLF** •Blend of diploid & tetraploid Italian annual rvegrass
 - •Seeded in spring to boost season production
- Excellent establishment & improved persistence
- Rapid regrowth ability for green chop or silage

FIRKIN



- **DLF** Improved disease resistance
 - Tetraploid variety with high quality & digestibility
- High vernalization requirement for no heading in seeding year

BROMEGRASS

FORAGE FIRST® FACTOR: Bromegrass can be challenging for many livestock and hay producers. Typically, this sod-forming grass has a shortened grazing or harvest window compared to other cool season grasses. Since bromegrass spreads rapidly by seeds and rhizomes, it can become increasingly dominant in pastures and paddocks. Boosting stocking rates in spring and fall, and either moderate use or rotating away from bromegrass during the summer, will help year-round utilization.

BIG TON XL SMOOTH BROMEGRASS



- Vigorous, long-lived sod-forming perennial grass
 VERY versatile, suited to grazing & haying
- Excellent drought resistance

- ·Well-suited alongside alfalfa & in mixed stands
- •Improved leaf disease/seedling blight resistance

BROMEGRASS

FLEET MEADOW BROMEGRASS



- · High yields & rapid regrowth
- Excellent season-long forage quality
- Suitable for hay or pasture

SMOOTH MEADOW

MAR - MAY

ANNUAL RYEGRASS

ESTABLISHMENT	FAST
PERSISTENCE	LOW
DROUGHT TOLERANCE	MED
WINTER HARDINESS	MED
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	HIGH

	DROUGHT TOL	.ERA
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ESTABLISHMENT	SLOW	SLOW
PERSISTENCE	HIGH	HIGH
DROUGHT TOLERANCE	MED	MED
WINTER HARDINESS	MED	MED
PALATABILITY	HIGH	HIGH
YIELD POTENTIAL	HIGH	HIGH
GRAZING TOLERANCE	HIGH	MED

PLANTING TIMES CDDING DI ANTINO

SPRING PLANTING	IVIAR - IVIAY
FALL PLANTING	AUG-SEP
LIFE CYCLE	ANNUAL
SEEDING RATE (LBS/ACRE)	
ALONE	20 - 40
MIXES	5 - 10
EMERGENCE (DAYS)	5 - 14
ROTATIONAL GRAZING (IN)	
BEGIN	8-12
STOP	3-6
AVERAGE DAYS REST	25 - 30

HARVEST MANAGEMENT

Mechanical harvest should be made at boot to early heading stage. Graze during vegetative stage; removal during stem elongation will slow production until new tiller buds are available for regrowth.

PLANTING TIMES

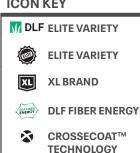
SPRING PLANTING

FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	15 - 20
MIXES	5 - 10
EMERGENCE (DAYS)	14-21
ROTATIONAL GRAZING (IN)	
BEGIN	10 - 12
STOP	4 - 6
AVERAGE DAYS REST	20 - 30

HARVEST MANAGEMENT

Bromegrass is tolerant of grazing in spring before the growing point emerges from below the ground; after jointing, frequent harvest can destroy stands. Mechanical harvest at boot to early bloom stage.

ICON KEY



FESTULOLIUM

FORAGE FIRST® FACTOR: Festulolium is a hybrid of fescue and ryegrass. Some varieties exhibit greater characteristics (both in appearance and agronomic performance) as fescue and some are more similar to ryegrass. Selecting the right festulolium is critical, depending on its use and environment.

FUSION XL



- Italian Ryegrass x Meadow Fescue
- Ideal in winter-damaged alfalfa or where emergency forage is needed
- •Increased summer performance & drought tolerance
- Fast germination & establishment
- · High yielding & very palatable

FOJTAN





- Italian Ryegrass x Tall Fescue
- Looks & grows like Tall Fescue
- · Higher forage quality & very palatable
- Excellent for grazing, silage & dry hay
- Good rust resistance & winter hardiness

KENTUCKY BLUEGRASS

BALIN

NEW



- Good disease resistance
- Suitable in mixes for intensive & extensive use
- Establishes fast with high yields
- Persistence & high yields in permanent pastures

ORCHARDGRASS

FORAGE FIRST* FACTOR: La Crosse Seed works hard to bring varieties forward that exhibit strong disease resistance and tolerate the vigorous management schemes that many producers utilize. Maturity should be considered whether matching this grass with legumes or in a mono-culture, as harvesting in the boot stage is the goal. Proper fertility and higher cutting/grazing heights also aid in persistence.

INAVALE HAYMATE XL ECHELON



- Medium maturity
- Improved disease resistance

- Very good summer production
- Well suited for grazing



Medium-late maturity

between harvests

• Great companion for alfalfa

- Improved disease resistance
- Maturity allows for more flexibility with first harvest in spring



- Extremely late maturing, maintains forage quality longer between harvests
- Superior leaf disease resistance
- Perfect companion for alfalfa or clover mixes
- Excellent persistence & vigor
- •Increased palatability & stand persistence

CAPTUR



- Extremely late maturing (4 6 days later than Echelon), maintains forage quality longer
- · High yield, improved rust resistance, high salt tolerance
- Perfect companion for alfalfa or clover mixes
- Excellent persistence & vigor

FESTULOLIUM

FAST
MED
MED
HIGH
HIGH
HIGH
HIGH

PLANTING TIMES

early heading stage.

SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	30 - 40
MIXES	10 - 15
EMERGENCE (DAYS)	7 - 14
ROTATIONAL GRAZING (IN)	
BEGIN	10-12
STOP	4 - 6
AVERAGE DAYS REST	25 - 35
HARVEST MANAGEMENT	

Mainly used in pastures for either grazing or fall

stockpiling. Harvest for hay or haylage at boot to

KENTUCKY BLUEGRASS

ESTABLISHMENT	SLOW
PERSISTENCE	HIGH
DROUGHT TOLERANCE	MED
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	LOW
GRAZING TOLERANCE	HIGH

PLANTING TIMES **SPRING PLANTING**

FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	10 - 15
MIXES	3 - 10
EMERGENCE (DAYS)	14 - 28
ROTATIONAL GRAZING (IN)	
BEGIN	4 - 6
STOP	2 - 3
AVERAGE DAYS REST	30 - 40
HADVEST MANACEMENT	

High stocking rates in spring take advantage of its early production. Because of its shorter stature, bluegrass is perfectly suited for grazing & tolerates close (or over) grazing.

ORCHARDGRASS

ESTABLISHMENT	MED
PERSISTENCE	HIGH
DROUGHT TOLERANCE	MED
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	MED

PLANTING TIMES

MAR - MAY

SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	15 - 25
MIXES	3 - 10
EMERGENCE (DAYS)	7 - 21
ROTATIONAL GRAZING (IN)	
BEGIN	8 - 12
STOP	4 - 6
AVERAGE DAYS REST	15 - 30
HARVEST MANAGEMENT	

Harvest at boot stage in spring; cut or graze frequently in spring & early summer (cutting frequency influenced by temperature, soil moisture & fertility).

FORAGE GRASSES

TALL FESCUE & MEADOW FESCUE

FORAGE FIRST® FACTOR: Various levels of endophyte toxicity are common in the majority of US tall fescue fields. Unless KY31 is requested, La Crosse Seed is focused on offering only varieties that are free of any endophytes. Improved tall fescue varieties demonstrate better cold tolerance across the Midwest while animal performance trials show enhanced grazing preference and palatability compared to older genetics. If renovating endophyte-infected fescue, it's best to rotate out for a period of 1-2 years until infected seed populations diminish and a new stand can establish without competition. If the goal is to improve existing pasture, adding legumes (like red clover) makes sense by helping production and quality. USDA research has shown that clover reduces some of the negative effects cattle see when consuming the infected plants.

STARGRAZER XL TALL FESCUE	XL	Well adapted for the Midwest, Mid-Atlantic Northeast Suitable for both pastures or hay production	•Slightly earlier maturing than KY31 •Good yielder with excellent persistence
TOWER TALL FESCUE	₩ DLF	Broadly adapted with improved tolerance to extreme conditions Late maturing variety suitable for intense grazing & hay environments	Improved disease resistance (rust & other leaf diseases)Maturity helps maintain higher RFQ at harvest
LAURA MEADOW FESCUE	M DLF	•Very quick to establish & very aggressive •Excellent for cold & wet areas	•High yielding first cuts with excellent regrowth •Very good winter hardiness & persistence
HYPERBOLA MEADOW FESCUE	DLF OLF REED PARCY	•Increased disease tolerance •Increased persistence between cuttings & year over year	Very quick to establish & very aggressive High yielding first cuts with excellent regrowth
REED CANARYGRA	ASS		

DEFIANT XL



- Performs well on poorly-drained soils & overly wet environments
- Low alkaloid

- ·Can be used for hay, silage or pasture
- Performs well on low pH soils

MAR - MAY

• Widely adapted & extremely drought tolerant

BERMUDAGRASS & MORE

La Crosse Seed can access virtually any seed you need, including Bermudagrass & more. Contact us to learn more.

FESCUE	TALL	MEADOW
ESTABLISHMENT	MED	MED
PERSISTENCE	MED HIGH	MED HIGH
DROUGHT TOLERANCE	HIGH	MED LOW
WINTER HARDINESS	MED	HIGH
PALATABILITY	MED	HIGH
YIELD POTENTIAL	HIGH	LOW
GRAZING TOLERANCE	HIGH	HIGH

PLANTING TIMES

stockpiled in fall.

SPRING PLANTING	MAR-MAY	APR-MAY
FALL PLANTING		AUG-SEP
LIFE CYCLE	Р	ERENNIAL
SEEDING RATE (LBS/ACRE)		
ALONE		25 - 30
MIXES		5 - 15
EMERGENCE (DAYS)		14-21
ROTATIONAL GRAZING (IN)		
BEGIN	4 - 8	8 - 10
STOP		3-6
AVERAGE DAYS REST	25 - 35	15 - 25
ROTATIONAL GRAZING (IN)		
Harvest at boot stage in spring; pure s	stands work w	ell when

REED CANARYGRASS

ESTABLISHMENT	SLOW
PERSISTENCE	HIGH
DROUGHT TOLERANCE	HIGH
WINTER HARDINESS	HIGH
PALATABILITY	MED
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	HIGH

PLANTING TIMES SPRING PLANTING

FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	12 - 14
MIXES	6-8
EMERGENCE (DAYS)	14 - 28
ROTATIONAL GRAZING (IN)	
BEGIN	10 - 12
STOP	4 - 6
AVERAGE DAYS REST	20 - 30
HARVEST MANAGEMENT	

Mechanical harvest at heading stage for highest yields; most annual growth occurs before July rotate pastures often; top growth will desiccate at frost so manage accordingly.



PERENNIAL RYEGRASS (TETRAPLOID)

FORAGE FIRST* FACTOR: Perennial ryegrass is best suited for milder climates, where drought and elevated temperatures aren't as common. Although improved varieties offer increased disease resistance, crown rust can easily overtake a population (even with varietals that offer some protection). Perennial ryegrass includes both diploid and tetraploid varieties. Tetraploid varieties are usually taller, with wider leaves and longer tillers - offering greater production consistently. Tetraploids are commonly less dense, which makes them a good option when mixed with legumes. They also tend to be more effective in grazing environments, however they typically don't persist as long as diploid options. While diploids often have deeper crowns, which make them more tolerant to stress and traffic, they also provide better sod coverage, which is valuable for quick establishment in multiple soil environments.

ENDO-GRAZE XL	XL	High-yielding with rapid establishmentExcellent high quality forage in spring & fall	•Extremely palatable
DEXTER 1	DLF PRIERRY	Early spring growth with high dry matter yieldVery high yield with extremely fast recoveryHigh cold tolerance	Very high leaf to stem ratioTolerates intensive grazing
KENTAUR	M DLF	•Excellent resistance to leaf spot & crown rust •High sugar content •Excellent forage quality & consistency	Early spring growth with high dry matter yieldGood recovery after cuttingCold & heat tolerant

TIMOTHY

FORAGE FIRST FACTOR: Improved varieties of timothy are about improving its faults. Early maturing varieties align more closely when paired with alfalfa's harvest schedules. Timothy's shallow root system can struggle in warm and droughty environments. Increasing seeding rates can compensate for timothy's slow establishment, increasing stand density and weed suppression. What it lacks in seedling vigor, it makes up in winter hardiness.

TOP TIM XL	XL	•Early maturity blend •Excellent with clover or alfalfa for hay or pasture	• 1 - 2 weeks earlier to boot stage than Climax in most environments
ERECTA	₩ DLF	Late maturingVery winter-hardy	•Known for its palatability & digestibility
RICHMOND	₩ DLF	•Early maturing with excellent early spring vigor	•Very winter-hardy
VALOR DT	DLF DUF PUER ON PRESTY	•Early maturing with excellent early spring vigor •Very winter-hardy	•Excellent drought tolerance

PERENNIAL RYEGRASS

ESTABLISHMENT	FAST
PERSISTENCE	MED
DROUGHT TOLERANCE	MED
WINTER HARDINESS	MED
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	MED HIGH

PLANTING TIMES

SPRING PLANTING	FED - IVIAT
FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	30 - 40
MIXES	6 - 10
EMERGENCE (DAYS)	5 - 14
ROTATIONAL GRAZING (IN)	
BEGIN	8 - 12

HARVEST MANAGEMENT

AVERAGE DAYS REST

STOP

Once established, ryegrass can be grazed (even continually) as quick as 3-4" in height assuming wet conditions don't ruin stand. Less dm will require longer curing times relative to other cool season grasses.

TIMOTHY

ESTABLISHMENT	SLOW
PERSISTENCE	MED
DROUGHT TOLERANCE	MED
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	MED
GRAZING TOLERANCE	LOW

PLANTING TIMES

IVIAIX - IVIAT
AUG - SEP
PERENNIAL

ALONE	8 - 15
MIXES	2 - 6
EMERGENCE (DAYS)	14-21

HARVEST MANAGEMENT

15 - 30

Because of timothy's lack of basal leaves to support regrowth, as well as its limited energy storage, frequent cutting or grazing greatly weakens stands. Harvest in spring at boot stage.

We choose to sell premium brands like Forage First because it helps differentiate our business in the marketplace. The way to compete with big box companies is to offer premium varieties and brands that you can't find in many of those mainstream stores."

> Jeff G., Northeastern Missouri

ICON KEY



FORAGE FIRST® GRASS & LEGUME MIXES

We provide a diverse set of mixes to produce high quality forage for your unique operation. Our versatile pasture mix portfolio offers a variety of proven products to fit any need, created with flexibility and ease of management in mind.

SEEDING RATE (LBS/ACRE)

SEEDING RATE (LBS/ACRE)

ALFALFA BASED MIX

NEW FORMULA 18-20

ALFALFA HAY & PASTURE MIX Maximum production per acre. Produces high quality

Suited for traditional hay production & increased management environments. Good winter hardiness. Replaces 715 Forage Mix.



70% FF 42.A2 Brand Alfalfa

15% Red Carpet® XL 990 Red Clover

15% Top Tim XL Timothy



balanced hay.

40% FF Premium Alfalfa

20% Endo-Graze XL Perennial Ryegrass

20% Haymate XL Orchardgrass

15% Top Tim XL Timothy

5% Orion XL Ladino Clover

ALL PURPOSE MIX

BEEF MIX

18-20

Flexible for hay & long-term pasture across a wide range of soils, but responds to better soils, irrigation & increased fertility.



22% FF Premium Alfalfa

20% Top Tim XL Timothy

15% Haymate XL Orchardgrass

13% Red Carpet® XL 990 Red Clover

12% Endo-Graze XL Perennial Ryegrass

8% Radium XL Alsike Clover

5% Tetrabana XL Italian Ryegrass

5% Orion XL Ladino Clover

High protein for maximum daily gain. Strong persistence & regrowth that withstands grazing pressure/hay production. Contains endophyte free tall fescue.



35% Endo-Graze XL Perennial Ryegrass

20% FF Premium Alfalfa

15% Big Ton XL Smooth Bromegrass

15% Stargrazer XL Tall Fescue

Excellent yields of high-energy feed. Excellent for active horses.

10% Fusion XL Festulolium

5% Top Tim XL Timothy

CLOVER-BASED MIX

16 - 18

TRIPLE CROWN MIX

30 - 40

Formulated for wetter soils with a history of disease & fertility problems. Use in soils with low pH (below 6.5).



63% Red Carpet® XL 990 Red Clover

25% FF Premium Alfalfa

10% Radium XL Alsike Clover

2% Orion XI. Ladino Clover



35% Endo-Graze XL Perennial Ryegrass

20% FF Premium Alfalfa

20% Top Tim XL Timothy

15% Balin/Ginger Kentucky Bluegrass

10% Fusion XL Festulolium



FORAGE FIRST® GRASS MIXES

Our all grass mixes feature premium blends of elite performing forage grass varieties (sod-forming and non sod-forming), including endophyte fungus free.

SEEDING RATE (LBS/ACRE)

SEEDING RATE (LBS/ACRE)

VERSAGRASS™ MIX

25 - 30

30 - 40

SPECIAL WATERWAY MIX

25 - 30

Excellent for waterways, terraces, ditches, banks & headlands. Great for permanent pastures and companion crop for hay production.



25% Big Ton XL Smooth Bromegrass

25% Endo-Graze XL Perennial Ryegrass

25% Haymate XL Orchardgrass

25% Top Tim XL Timothy

Performs well in hay systems. Contains endophyte-free tall fescue, persistence retains quality for many years. Great for waterways.



65% Big Ton XL Smooth Bromegrass

20% Stargrazer XL Tall Fescue

15% Endo-Graze XL Perennial Ryegrass

BLM #4 MIX

Versatile mix, establishes quickly. Endophyte-free tall fescue extends productivity into hot, dry summer.



30% Endo-Graze XL Perennial Ryegrass

20% Tetrabana XL Italian Ryegrass

20% Stargrazer XL Tall Fescue

15% Balin/Ginger Kentucky Bluegrass

15% Top Tim XL Timothy

GRASS MASTER MIX

30 - 40

Endophyte-free, tall fescue & orchardgrass perform well in less-than-ideal summers. Good for grazing & hay production.



35% Stargrazer XL Tall Fescue

35% Haymate XL Orchardgrass

15% Endo-Graze XL Perennial Ryegrass

15% Fusion XL Festulolium

MARE & FOAL MIX

30 - 40

Ability to be productive under rotational grazing & hay production. Tolerant to heavy traffic.



50% Haymate XL Orchardgrass

25% Top Tim XL Timothy

15% Fusion XL Festulolium

10% Balin/Ginger Kentucky Bluegrass

JUMP START MIX

30 - 40

Excellent for overseeding existing hay stands or short/long-rotation pastures. Very responsive to fertilization.



50% Endo-Graze XL Perennial Ryegrass

25% Tetrabana XL Italian Ryegrass

25% Fusion XL Festulolium

FESCUE BASED MIX

NEW 30 - 40

Endophyte-free, fescue based pairs well with dairy quality alfalfa, or can be straight seeded for heifers.



40% Stargrazer XL Tall Fescue

30% Meadow Fescue

20% Fusion XL Festulolium

10% Endo-Graze XL Perennial Ryegrass

SILOBUSTER MIXES

*100-120 Nurse

SILOBUSTER PEA & BARLEY MIX*

100 - 150

Elite combination of forage peas & forage barley, ideal as nurse crop or straight forage.



50% LC6040 Forage Peas

50% Forage Spring Barley

SILOBUSTER PEA & TRITICALE MIX*

100 - 150

Elite combination of forage peas & forage triticale, ideal as nurse crop or straight forage.



50% LC6040 Forage Peas

50% Forage Spring Triticale

SILOBUSTER PEA & OAT MIX*

100 - 150

Elite combination of forage peas & forage oats, ideal as nurse crop or straight forage.



50% LC6040 Forage Peas

50% Forage Oats

				COOL SEASON GRASSES					
		SOD F	ORMING			ON-SOD FORM			
	FORAGE FIRST®	SMOOTH	KENTUCKY	TALL	MEADOW				
	FORAGE FIRST	BROME	BLUEGRASS	FESCUE	FESCUE	ORCHARD	TIMOTHY		
	BY DLF	BIG TON XL		STARGRAZER XL		HAYMATE XL	TOP TIM XL		
	VERSAGRASS™	25%				25%	25%		
	SPECIAL WATERWAY	65%		20%					
တ									
X	BLM #4		15%	20%			15%		
Σ									
488	MARE & FOAL		10%			50%	25%		
ALL GRASS MIXES									
ĘĘ	GRASS MASTER			35%		35%			
Ø									
	JUMP START								
	FESCUE BASED MIX			40%	30%				
!									
	ALEALEA DACED						15%		
	ALFALFA BASED						15%		
(ES	ALFALFA HAY& PASTURE					20%	15%		
ME MIXES	ALFALFA HAT & FASTORE					20%	1370		
밀	ALL PURPOSE					15%	20%		
	ALL FOR OUL					1070	2070		
ΓE	BEEF	15%		15%			5%		
GRASS + LEGU	BEET	1070		1070			3 70		
AS	TRIPLE CROWN		15%				20%		
GR	TKII EE SKOWN		1070				2070		
	CLOVER-BASED						25%		
4.	RATE FOR PURE STAND	15 - 20	10 -15	25 - 30	25 - 30	15 - 25	12 - 15		
<u>S</u>	RATE IN MIX	5 - 10	4 - 10	6 - 12	6 - 12	3-10	2-6		
ST	ESTABLISHMENT	SLOW	SLOW	MED	MED	MED	SLOW		
곮	PERSISTENCE	HIGH	HIGH	HIGH	HIGH	HIGH	MED		
ij	DROUGHT TOLERANCE	MED	MED	HIGH	HIGH	MED	LOW		
AC	WINTER HARDINESS	HIGH	HIGH	MED	HIGH	HIGH	HIGH		
AR	PALATABILITY	HIGH	HIGH	MED	HIGH	HIGH	HIGH		
CHARACTERISTICS	YIELD POTENTIAL	HIGH	MED	HIGH	HIGH	HIGH	MED		
	GRAZING TOLERANCE	HIGH	HIGH	HIGH	HIGH	HIGH	MED		
	ADDITIONAL ELITE VARIETIES &		BALIN GINGER	TOWER	LAURA	INAVALE	ERECTA		
	OTHER FORAGE FIRST® PRODUCTS		GINGER		HYPERBOLA	ECHELON CAPTUR	RICHMOND VALOR DT		
						OALTON	VALOINDI		
	PAGE#	7	8	9	9	8	10		

					LEGI	JMES	
PERENNIAL			:	*	*	*	*
RYEGRASS (TETRAPLOID)	ITALIAN RYEGRASS	FESTULOLIUM	ALF	ALFA	RED CLOVER	LADINO CLOVER	ALSIKE CLOVER
ENDO-GRAZE XL	TETRABANA XL	FUSION XL	FF 42.A2 BRAND	FF PREMIUM	RED CARPET XL990	ORION XL	RADIUM XL
25%							
15%							
30%	20%						
150/		15%					
15%		15%					
50%	25%	25%					
10%		20%					
			70%		15%		
20%				40%		5%	
12%	5%			22%	13%	5%	8%
35%		10%		20%			
35%		10%		20%			
					63%	2%	10%
30 - 40	20 - 40	30 - 40	15 - 20	15 - 20	8 - 12	4-6	6-8
6 - 10	5 - 10	10 - 15	8 - 10	8 - 10	6-8	2-4	2 - 4
FAST	FAST	FAST	MED	MED	FAST	FAST	FAST
MED	LOW	MED	MED	MED	HIGH	MED	MED
MED	LOW	MED	MED	MED	MED	LOW	LOW
MED	LOW	HIGH	HIGH	HIGH	HIGH	MED	HIGH
HIGH HIGH	HIGH HIGH	HIGH HIGH	HIGH	HIGH	HIGH MED	HIGH	HIGH
HIGH	HIGH	HIGH	HIGH HIGH	HIGH	MED-HIGH	MED HIGH	MED-HIGH
DEXTER1 KENTAUR	GRASSHANCER 200 FIRKIN	FOJTAN	FORAG ALFO NEXO	E FIRST® DREX BROW	REDKIN	HESLOP	
10	7	8		RAGE FIRST® A GUIDES	5	6	5

BIRDSFOOT SEEDNG **TREFOIL** RATE (LBS/ LOTUS XL ACRE) 25-30 25 - 30 30 - 40 30 - 40 30 - 40 30 - 40 18 - 20 18 - 20 30 - 40 30 - 40 16 - 18 8 - 10 4-5 SLOW HIGH MED-HIGH HIGH HIGH MED HIGH LEGUMES WILL BE ENHANCED 6

BMR 12

DWARF

95 BMR TS

SINGLE SILAGE CUT SUITABILITY

2 3

4 2

3

2 2

2 2

2 4

4 4

4 4

NA 4

DOUBLE CROP

3 4

3 5

OVERALL ADAPTABILITY

RAPID DRY DOWN

2

SUGARCANE APHID TOLERANCE

3

1

2

2

1

1

5

5

5

SUGARCANE APHID TOLERANCE

2

3

2

4

NR

	MILLET	PRIMARY FORAGE USE	PLANTING DATE	SEEDING RATE (LBS, BROADCAST - ADD 30%)	DAYS TO GRAIN MATURITY
	Common Foxtail Millet	Hay or silage	May - July	20 - 25	60 - 100
FOXTAIL	German Millet	Dry hay in 55 - 60 days	May - July	20 - 25	75 - 90
FOX	Siberian Millet	Dry hay in 40 - 50 days	May - July	20 - 25	60 - 80
	White Wonder Millet	Dry hay in 50 - 55 days	May - July	20	70 - 90
	White Proso Millet	NR	May - July	20 - 25	70 - 90
GRAZING	Japanese Millet	Grazing; dry hay in 45 - 50 days	April - July	15-20	60 - 70
GRA7	Pearl Millet	Grazing in 35 - 40 days; dry hay in 40-50 days; can ensile or green-chop also	May - July	12-20	60 - 70
	Brown Top Millet	Thin stems make dry hay more suitable	May - July	20 - 25	60

85 - 95

16,000 -

18,000

5 - 7

5 - 7

BD = Brachytic Dwarf, **BMR** = Brown Mid-Rib, **MS** = Male Sterile, **PPS** = Photo Period Sensitive, **T** = Base Treatment, **TS** = Base Treatment/Safened Unless otherwise indicated, a standard 5 point rating system is used. Ratings are based on comparison with other products of like maturity/product use.

1 = POOR, 5 = EXCELLENT

5

5

• Early maturing dwarf BMR

• High grain yield for maturity

 Widely adapted 	 Increased sugar content = improved digestibility
 Traditional growth habit with wide, long leaves 	 Fast establishment & regrowth = more productivity
Management friendly hybrid with greater harvest flexibility	• Suitable for grazing environments or 1-cut silage systems
• Dwarf hybrid = improved standability & higher leaf:stem ratio	 Increased sugar content = improved digestibility
Widely adapted with improved disease resistance	• PPS allows for wider window of harvest
• PPS hybrids remain vegetative until mid-Sept (day length < 12)	n, 20m) • Build tonnage without sacrificing quality
• Broad adaptation in a traditional, non-BMR package	High yielding; increase population for improved quality
Higher levels of sugar/protein in vegetative portion of plant	• MS = no anthers, thus no pollen for self-fertilization
Increased disease resistance	• Improved standability
Best summer annual option when dry hay production is planned.	• Strong emergence & quick regrowth
 Can also be used for grazing or green chop 	
Versatile hybrid suitable for silage, grazing & dry hay	• Enhanced palatability, digestibility & overall utilization
• Dwarf gene increases leaf:stem ratio & improves standability	No prussic acid or sugarcane aphid concerns
 Versatile hybrid suitable for silage, grazing & dry hay 	No prussic acid or sugarcane aphid concerns
 Quicker regrowth compared to sorghum x sudangrass 	Shorter stature = improved standability
• Great rotational crop between alfalfa & perennial stands	• Well adapted to dry climates
Superior quality - ideal for horses & other livestock	
MATURITY LEAF DISEASE RESISTANCE	
 Good disease resistance Excellent regrowth for a forage sorg 	Male Sterile = increased sugar accumulation hum

• Excellent leaf disease resistance

· Widely adapted with excellent standability

*Refer to seeds per lb on seed tag

TYPICAL HEIGHT & STATURE	REGROWTH AFTER CUTTING/HARVEST	ATTRIBUTES	
2 - 4'	Little to no regrowth	Forage type millets primarily Many so called "varieties"	Pasture only before heads form (not ideal)
2 - 4'	Little regrowth	VERY fast growing Used primarily for hay production; seeds for wildlife	Mid-late maturing Shallow rooted – not as drought tolerant
2 - 2½'	Little to no regrowth	VERY fast growing Earlier maturing	Shorter stature Best suited in Northern Plains
3 - 4'	Poor at best	Dual purpose - hay & grain Late maturing	Heavy stem & taller than most foxtail types
2 - 2½'	Poor at best	Usually grown for seed - bird seed or livestock feed	• Not tolerant of drought - keep off sandy soils
2 - 4'	Leave 6 - 8" for adequate regrowth	• Grazing / hay potential on wet soils (no prussic acid) • Ideal for waterfowl / wildlife feed	Tolerant of waterlogged soils & flooding Also used for erosion control
3 - 6' (depending on variety)	Leave 8 - 10" for adequate regrowth	Very resilient - handles a variety of soil types No prussic acid concerns	More drought tolerant than japanese / foxtail millets Increased forage quality offered in BMR types
2 - 4'	Leave 6 - 8" for adequate regrowth	Fast growing for seed mostly - wildlife Seed shatters easily - reseed potential very high	Best suited for Southeast US (needs adequate water Tolerant of acidic soils & low fertility



COVER CROP MIXES





SOIL FIRST® 101 COVER STARTER

Simple. Practical. A low-risk option for early adopters and growers looking for flexibility.

• For multiple regions & marginal soil environments • Winter-hardy rye will sequester excess nitrogen

SEEDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50





SOIL FIRST® 102 COVER STARTER +

Building nitrogen and root mass while improving soil tilth and biomass potential.

 Perfect before both corn or soybeans · Ideal for Southern Corn Belt & beyond

SEEDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50





SOIL FIRST® 121 BRASSICA BOOST

Pairing with other species is great for forage or grazing and providing high biomass potential

• Perfect supplement for cereal grains like rye & oats • Will scavenge for excess nutrients left in the soil

SEEDING RATE (LBS/ACRE) Drill: 6-8 Broadcast: 8-10 Aerial: 10-15 Supplemental: 2-4





SOIL FIRST® 125 N-HANCER

Heavy legume mix intended for adding Nitrogen.

 Strong nitrogen fixing mix · Ideal as fall forage mix

SEEDING RATE (LBS/ACRE) Drill: 35 - 40 Broadcast: 40 - 50 Aerial: NR Forage: 40 - 50



50% PURPLE TOP TURNIPS

50% TILLAGE RADISH®



SOIL FIRST® 140 MULTI-PURPOSE

For livestock grazers providing soil protection & biomass from fall through spring.

• Early seeding/late fall silage opportunity · Ideal forage for beef/non-lactating dairy

SEEDING RATE (LBS/ACRE) Drill: 35 - 40 Broadcast: 40 - 50 Aerial: NR Forage: 40 - 50





SOIL FIRST® 142 CLASSIC

For early planting windows - double-crop, prevent plant, interseeding.

• Ideal for acres going to corn or other grass crops • Plant early to maximize production

SEEDING RATE (LBS/ACRE) Drill: 12 - 15 Broadcast: 15 - 20 Aerial: 20 - 25 Forage: 15 - 20





SOIL FIRST® 150 FIELD FIT

Straightforward & flexible mix with very minimal spring management.

• Winterkills in most northern climates • Great for sequestering leftover nutrients

SEEDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50





SOIL FIRST® 160 ROOTING

Blend of radish & ryegrass maximizes root mass and captures nutrients.

Best for breaking up compaction & catching nutrients Perfect in manure systems

SEEDING RATE (LBS/ACRE) Drill: 15 - 20 Broadcast: 20 - 25 Aerial: 20 - 25 Forage: 20 - 25

88% ANNUAL RYEGRASS 12% TILLAGE RADISH®

HYBRID BRASSICA

80% ANNUAL RYFGRASS*

12% CRIMSON CLOVER* 8% TILLAGE RADISH®

85% CRIMSON CLOVER

15% TILLAGE RADISH®





SOIL FIRST® 167 SUMMER BIOMASS

Base of 50% warm-season annual grasses is optimized for biomass & is uniquely suited for grazing.

• Tolerates poor soil, low pH, & drought environments · Species diversity helps soil aggregate stability

SEEDING RATE (LBS/ACRE) Drill: 15 - 20 Broadcast: 20 - 25 Aerial: NR Forage: 25 - 30





SOIL FIRST® 175 ACCUSPREAD

Coated clover and ryegrass creates spread patterns and broadcast germination.

• Great compaction alleviation & nutrient scavenging • Facilitates more accurate broadcast seeding patterns

SEEDING RATE (LBS/ACRE) Drill: 20 - 25 Broadcast: 25 - 30 Aerial: 25 - 30 Forage: 25 - 30









*COATED



A DLF DIVISION

LA CROSSE SEED PROVIDES A FULL RANGE OF PRODUCTS TO MEET YOUR NEEDS:



TURF

- Turf seed
- Turf mixes
- · Custom turf mixes
- · Conservation mixes
- Erosion control



SUMMER SELECT

SUMMER ANNUALS

- Sorghum x Sudan
- Sudangrass
- Forage Sorghum
- Millets
- Teffgrass



- · Cover crop seed
- Cover crop mixes
- · Custom cover crop mixes
- Seed inoculants



DEER CREEK® SEED BY DLF

WILDLIFE

- Food plot seed
- Food plot mixes
- · Custom wildlife mixes

NATIVES & WILDFLOWERS

- Native grasses
- · Conservation seed mixes
- Wildflowers/forbs
- · Custom conservation seed mixes
 - » (NRCS, CRP, Pollinator)

SMALL GRAINS

- Spring cereals
- Winter cereals
- Pea mixes

SWEET CORN

Some varieties are sweeter than others, depending on whether one or both of their parents were sugary enhanced. Varieties that get the 'se' gene from both their parents are homozygous for that trait, or 'double se,' and all of their kernels have the se characteristics. Typically a homozygous se will have better eating quality than a heterozygous se.

Sweet corn comes in three colors: yellow, white and bicolor (yellow and white). Cross pollination of yellow kernel varieties with white kernel varieties will result in production of bicolor corn. If a bicolor is cross pollinated with a yellow variety, kernel color will be mostly yellow. Although there are regional preferences for certain kernel colors, there is no relationship between color and sweetness.

CONVENTIONAL VARIETIES								
	MATURITY DAYS	COLOR						
Trinity	70	bicolor						
Sugar Buns	72	yellow						
Ambrosia	75	bicolor						
Bodacious	75	yellow						
Delectable	84	bicolor						
Incredible	85	vellow						





CUSTOM SEED MIXING

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

SEED OPTIONS

La Crosse Seed offers a vast portfolio of seed designed for many conservation applications. A partial list available through La Crosse Seed includes seed for:

- · Conservation cover including CRP and pollinator habitat seeds
- · Contour buffer strips
- Filter strips

- Field borders
- Forage and biomass plantings
- Grassed waterways
- · Stream bank protection

CONSIDERATIONS WHEN CREATING CUSTOM SEED MIXES:

- Think about seed sizes will the different size and shape of certain seeds prohibit specific application methods?
 - » Aerial: too large of seed might struggle to get adequate seed-to-soil contact
 - » Drilling or Ground Seeding: seed size usually affects seeding depth. Different seeding depths become a real challenge with numerous species all in the same bag



- Different cover crops often perform best when planted at different times
- · Not all crops are beneficial to the next crop in the rotation
- Select species carefully, making sure all species are adapted to the field's soil, drainage and crop rotation 18



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.

RATE SI	AG ZE SS)	LEGUMES	GRASSES	FORBS	ANNUAL/ PERENNIA	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICA	LEGUMES	GRASSES	FORBS
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PERENNIAL & ANNUAL / PERENNIAL MIXES

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BEES N BUCKS HORN HONEY PERENNIAL (Drilled) (Brdcast) PERENNIAL 10* 12 (Drilled) (Brdcast) 5 & 10 25% Premium Brand Alfalfa

- · Spring/fall planted perennial mix offering year-round food source
- Performs well on medium to heavy soil types in light shade to full sun
- Includes high energy legumes that will thrive in various geographical locations
- · Chicory will thrive during summer months
- Replaces DC Perennial Plus Clovers
- 25% Orion XL Ladino White Clover 25% Red Carpet XL 990 Red Clover 25% Intermediate White Clover 15% Radium XL Alsike White Clover 10% Chicory

*Seed at 1/4" Depth



- · Spring/fall planted perennial dual purpose mix offering year-round food source
- Performs well on light to heavy soil types in light shade to full sun
- · All purpose pollinator to create a bee and pollinator sanctuary if left to flower
- · Replaces Deer Country Field and DC Bee Clover

S

20% Orion XL Ladino White Clover

20% Red Carpet XL 990 Red Clover 20% Yellow Blossom Sweet Clover

15% Radium XL Alsike White Clover

*Seed at 1/4" Depth



BUCK'S BANQUET								
ANNUAL/	8*	10						
PERENNIAL	(Drilled)	(Brdcast)						

• Early fall planted annual & perennial species offering early/late fall

food source • For medium to heavy soil types in light shade to full sun

- Clover/chicory remain perennial after brassicas winterkill
- · Portion remains green until air temps reach 10 - 15°F
- Optimally planted 6 8 weeks prior to killing frost
- Replaces Autumn Buffet

20% Orion XL Ladino White Clover

20% Rapeseed

15% Purple Top Turnips

15% Tillage Radish®

10% Intermediate White Clover

10% Radium XL Alsike White Clover

10% Chicory

*Seed at 1/4" Depth



PERENNIAL HABITAT HIDE-A-WAY

PERENNIAL

9 & 50

· Spring/fall planted native grass perennial mix offering year-round bedding/buffer source

• Performs well on light to heavy soil types in light shade to full sun

· Maintenance needed during slow establishment period; alternative to Annual Habitat Hide-A-Way

• Will reach heights up to 8 ft tall

34% Switchgrass 33% Indiangrass

33% Big Bluestem

*Seed at ¼" Depth

See Natives Guide for establishment guidelines





ANNUAL MIXES

RUT N READY ANNUAL 6° 8 (Drilled) (Brdcast) 4&8 HARVEST MOON ANNUAL 40° 50 (Drilled) (Brdcast) 25

- 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
- Replaces DC Brassica Blend & DC Prime Time Brassica

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

*Seed at ¼" Depth



- 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
- Replaces DC Succulent Succotash/ Autumn Energy

90% Arctic Brand Forage Oats

6% Tillage Radish®

4% Purple Top Turnips





ANNUAL HABITAT HIDE-A-WAY

ANNUAL 10* 10 (Drilled) (Brdcast) 10

- 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
- Replaces DC Silver Screen

NEW FORMULA



- 34% Summer Select® Forage Sorghum
- 33% Wildlife Grain Sorghum
- 33% Egyptian Wheat

*Seed at 1" Depth





DEER CREEK SPECIES OFFERED IN SMALL PACKS (5 LB)

LEGUMES	GRASSES	BROADLEAVES
Med Red Clover	Egyptian Wheat	Buckwheat
Alsike Clover		Chicory
Berseem Clover		Tillage Radish
Ladino Clover		Rapeseed
Alfalfa PI		Rutabaga
		Sugar Beet
		Peredovik Black Oilseed Sunflower
		Purple Top Turnip



BRASSICAS BRASSICAS ANNUAL/ PERENNIAL EGUMES **EGUMES** FORBS **SEEDING BAG BAG RATE** SIZE **SEEDING RATE** SIZE (LBS/ACRE) (LBS) (LBS/ACRE) (LBS) PERENNIAL & ANNUAL / PERENNIAL MIXES **NO-TILL WILDLIFE CLOVER PREMIUM WHITE CLOVERS** PERENNIAL 8* 10 (Drilled) (Brdcast) PERENNIAL 15* (Drilled) 20 - 25 (Brdcast) 5 & 10 5 & 10 25% Radium XL Alsike White Clover 15% Intermediate White Clover · Spring/fall/frost planted perennial Spring/fall/frost planted perennial 15% Radium XL Alsike White Clover 25% Dutch White Clover mix offering year-round food source mix offering year-round food source 15% Med Red Clover 25% Orion XL Ladino White Clover • Performs well on medium to heavy · Performs well on medium to heavy 25% Intermediate White Clover 15% Orion XL Ladino White Clover soil types in moderate shade to soil types in light shade to full sun 15% Dutch White Clover · Balance of high energy grasses/ 15% Coldsnap® Annual Ryegrass · Includes high energy legumes that legumes that will thrive in various 10% High Sugar Perennial Ryegrass will thrive in various geographical geographical locations *Seed at 1/4" Depth *Seed at 1/4" Depth • Easy to establish with minimal locations · White clovers will fill in areas of preparation overgraze due to stolon root system • Replaces DC Wildlife Clover Mix/ Point Bulider Plus **LOGGERS TRAIL MIX SPRING GREENS ELITE** ANNUAL/ ANNUAL/ 40* 50
PERENNIAL (Drilled) (Brdcast) 20* 25 (Drilled) (Brdcast) PERENNIAL 25 30% Stargrazer XL Tall Fescue 10% Balansa Clover · Spring/fall planted perennial mix · Late spring/summer/fall planted 15% Coldsnap® Annual Ryegrass 10% Buckwheat quick to establish and annual/perennial mix offering 15% Orion XL Ladino White Clover 10% Rapeseed produce cover multi-year food source 10% Radium XL Alsike White Clover 10% Forage Soybean • Performs well on light to heavy soil • Performs well on light to heavy soil 10% Intermediate White Clover 10% Creeping Red Fescue types in light shade to full sun types in light shade to full sun 10% Intermediate White Clover 10% Med Red Clover · Will persist in low-fertility, acidic, or • Multiple species for maximum 10% High Sugar Perennial Ryegrass 10% Peredovik Black Sunflower wet soils and areas with grazing quality & protects soil from 10% Sunn Hemp minimal sunlight nutrient loss 10% Green Sugar Sorghum Sudangrass • Replaces Deer Country Trail Mix 10% Tetrabana XL Italian Ryegrass *Seed at ¼" Depth *Seed at 1/4" Depth **ANNUAL MIXES QUAD PRO BEAN SANDY SURE SHOT** 40* 50 (Drilled) (Brdcast) 25* 35 (Drilled) (Brdcast) 25 ANNUAL 25 ANNUAL 70% 2 Forage Soybean Varieties 35% Peredovik Black Sunflower Spring/fall planted annual · Late spring/summer/fall 15% Lablab 30% Forage Soybean • Performs well on light to heavy soil planted annual 15% Cowpea 20% Buckwheat types in light shade to full sun · Formulated to persist in light sandy 10% Berseem Clover and dryland soil conditions • Fast growing, high protein mix with 5% Winfred Forage Brassica · Attracts deer and other forage and vining soybeans

avian wildlife

*Seed at 1" Depth

*Seed at ½" Depth

· Matures in approximately 60 days

3RASSICAS 3RASSICAS EGUMES **3RASSES** SEEDING **BAG BAG** RATE (LBS/ACRE) **SEEDING RATE** SIZE (LBS/ACRE) (LRS **ANNUAL MIXES NEW FORMULA** TRIPLE TREAT **WETLAND WATERFOWL**

ANNUAL

 Spring/fall planted annual clover blend

ANNUAL

· Performs well on medium to heavy soil types in light shade to full sun

8* 10 (Drilled) (Brdcast)

- · Nitrogen fixing and biomass producing mix excellent for plot rotation
- Triple purpose food source, soil health, nitrogen builing

40% Balansa Clover 40% Berseem Clover

20% Crimson Clover

• Late spring/summer planted annual and perennial blend

15* 20-25 (Drilled) (Brdcast)

- 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% Wildlife Grain Sorghum

20% Defender 265 Brand Spring Oat

10% Buckwheat

10% Proso Millet

5% Radium XL Alsike Clover

*Seed at 1/4-1/2" Depth

 $(_{\parallel})$



GAME BIRD MIX

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

· Late spring/summer planted annual • Performs well on light to heavy soil

25

25

- 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% Wildlife Grain Sorghum

15% Forage Soybean

10% Buckwheat

10% Japanese Millet

5% Proso Millet

BEET & SWEETS

ANNUAL

8* 10 (Drilled) (Brdcast)

5 & 10

25



10% Pearl Millet

• 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 ½" Depth

*Seed at 1/4" Depth









ALL SEASON MIX 50* ANNUAL

 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 additional food source the 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



15% Barley

15% Buckwheat

15% Forage Pea

15% Defender 265 Brand Spring Oats

2.5% Rapeseed

2.5% Forage Turnip

*Seed at ¼" Depth





MIX PERCENTAGES



KENTUCKY PERENNIAL ANNUAL CREEPING CHEWINGS HARD SHEEP TALL **SEEDING**

								FESCUE		FESCUE	FESCUE		O SQ FT
EARTH CARPET® BY DLF		LXQ QUALITY STANDARD		LXQ QUALITY STANDARD	LXQ QUALITY STANDARD		LXQ QUALITY STANDARD					NEW	OVER
PROFESSIONAL LANDSCAPE	MIXES	3											
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													
OLIVEICAL LANGUCAI E MIXEO					_							ı	
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
KENTUCKY BLUEGRASS & PER	ENNI	AL RY	EGR/	ASS B	ASED MI	XES							
KENTUCKY BLUEGRASS & PER BLUE CARPET°	ENNI. 100	AL RY	EGR/	ASS B	ASED MI	XES						2-4	1-3
		AL RY	EGR/ 20	ASS B	ASED MI	XES							1-3
BLUE CARPET°	100	AL RY		ASS B	ASED MI	XES							2-3
BLUE CARPET® PRO-SPORTS®	100	AL RY	20	ASS B	ASED MI	XES						3-5	2-3
BLUE CARPET® PRO-SPORTS® SPORTS PARK OS CHAMPION	100	AL RY	20	ASS B	ASED MI	XES						3-5 3-5	2-3
BLUE CARPET® PRO-SPORTS® SPORTS PARK OS	100	AL RY	20	ASS B	ASED MI			25	25	15		3-5 3-5 6-8	2-3 2-3 3-5
PRO-SPORTS® SPORTS PARK OS CHAMPION SLOPE & SHADE MIXES	100	AL RY	20	ASS B	ASED MI	35 30		25	25 20	15		3-5 3-5 6-8	2-3
BLUE CARPET® PRO-SPORTS® SPORTS PARK OS CHAMPION SLOPE & SHADE MIXES CARE-FREE SHADY PLACE®	100	AL RY	20 50 100	ASS B	ASED MI	35				15		3-5 3-5 6-8	2-3 2-3 3-5
PRO-SPORTS® SPORTS PARK OS CHAMPION SLOPE & SHADE MIXES CARE-FREE	100	AL RY	20 50 100	ASS B	ASED MI	35				15		3-5 3-5 6-8	2-3 2-3 3-5
BLUE CARPET® PRO-SPORTS® SPORTS PARK OS CHAMPION SLOPE & SHADE MIXES CARE-FREE SHADY PLACE®	100	AL RY	20 50 100	ASS B	ASED MI	35				15	100	3-5 3-5 6-8	2-3 2-3 3-5 3-4 3-4
BLUE CARPET® PRO-SPORTS® SPORTS PARK OS CHAMPION SLOPE & SHADE MIXES CARE-FREE SHADY PLACE® TALL FESCUE BASED MIXES	100	AL RY	20 50 100	ASS B	ASED MI	35				15	100	3-5 3-5 6-8 5-8	2-3 2-3 3-5 3-4 3-4



SURVIVOR







15



15





15

15

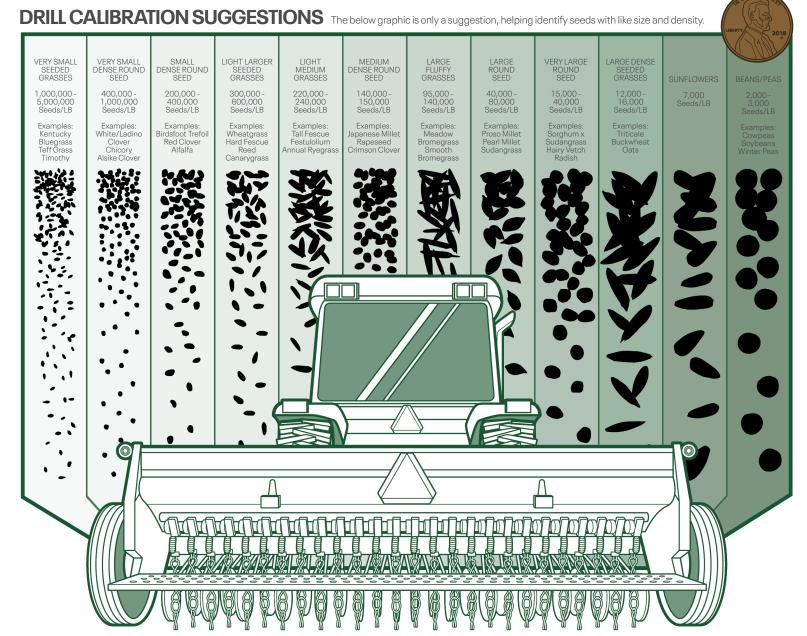




8-10 4-8

40

НЕАТ	WEAR	DROUGHT	TRAFFIC	SPREADING TECHNOLOGY	EXTREME RHIZOME EXPRESSION	SHADE TOLERANCE	GENETICS	A-LIST	IDEAL FOR:
4	4	3	4	ST					Establishing premium lawns or upgrading existing turf
4	4	3		31					Establishing premium lawns or upgrading existing turi
4	4	3	4	ST					Establishing premium lawns or upgrading existing turf
4	4	3	4	ST					Establishing premium lawns or upgrading existing turf
4	4	3	4	ST					Establishing premium lawns or upgrading existing turf
4	4	3	3				LXQ QUALITY STANDARD		Home lawns, parks & school grounds
3	3	3	3				LXQ QUALITY STANDARD		Home lawns & commercial landscapes
3	3	3	3				LXQ QUALITY STANDARD		Areas needing quick establishment
3	3	3	3				LXQ QUALITY STANDARD		Areas needing quick establishment
4	5	3	5						Golf course tees, fairways & fine home lawns
4	5	3	5	ST					Golf course tees, fairways & fine home lawns New installs or sports field renovation & other high performance areas
				ST ST					New installs or sports field renovation & other high
4	5	3	5						New installs or sports field renovation & other high performance areas
4	5	3	5	ST					New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields
4	5	3	5	ST				A-LIST.	New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields
4 4	5 5 5	3 3	5 4 4	ST				A-LIST,	New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields Renovating & repairing athletic fields Cabin sites, hillsides or where minimal maintenance
4 4 3	5 5 5	3 3 3	5 4 4 3	ST				A-LIST,	New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields Renovating & repairing athletic fields Cabin sites, hillsides or where minimal maintenance is desired
4 4 3	5 5 5	3 3 3	5 4 4 3	ST	XRE+			A-LIST.	New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields Renovating & repairing athletic fields Cabin sites, hillsides or where minimal maintenance is desired Home lawns with moderate to densely shaded areas
4 4 4 3 3	5 5 2 2	3 3 3 4 3	5 4 4 3 3	ST				A-LIST,	New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields Renovating & repairing athletic fields Cabin sites, hillsides or where minimal maintenance is desired Home lawns with moderate to densely shaded areas Home lawns, athletic fields & golf course roughs Low input sustainability, home lawns, high traffic, athletic
4 4 3 3 3	5 5 5 2 2	3 3 3 4 3	5 4 4 3 3	ST ST	XRE+ XRE+				New installs or sports field renovation & other high performance areas Renovating & repairing athletic fields Renovating & repairing athletic fields Cabin sites, hillsides or where minimal maintenance is desired Home lawns with moderate to densely shaded areas Home lawns, athletic fields & golf course roughs



INOCULANTS



SILAGE GRAIN CORN & FORAGE SORGHUM





SOYREANS

Our goal is to offer our customers the best the inoculant industry has to offer. La Crosse Seed has selected Agrovive, Novozymes and Visjon Biologics as our preferred inoculant partners. These companies provide cutting edge inoculant technologies with elite performance, ease of application and excellent technical support.

SILAGE, GRAII	A COKIN & FORAGE SORGHOM	SUIDEANS				
SEED 2 RUMEN® ION _{FX} ™	Dry, seed applied in-plant inoculant for corn and forage sorghum grown for silage	TAGTEAM® LCO XC	MultiAction® phosphate-solubilizing, nitrogen fixing liquid inoculant with LCO Promoter Technology® for retail application			
LEAF 2 RUMEN® ION _{FX} TM	Liquid, foliar applied in-plant inoculant for corn and forage sorghum grown for silage	OPTIMIZE [®] FXC	Nitrogen fixing liquid inoculant with LCO Promoter Technology® for retail application			
ALFALFA & CLO	OVER	_ CELL-TECH®	Liquid seed applied single-action nitrogen fixing inoculant for			
SEED 2 RUMEN®	Liquid, seed applied in-plant inoculant for alfalfa and clover	LIQUID	grower application			
ALPHAJOULE		EXCEED®	Nitrogen fixing liquid inoculant. Systemic Acquired Resistance			
LEAF 2 RUMEN® ALPHAJOULE CEREALS	Liquid, foliar applied in-plant inoculant for alfalfa and clover	SAR	(SAR) is a mechanism of plant defense that provides broad spectrum protection against multiple pathogens including both disease and nematodes. For retail application.			
SEED 2 RUMEN® CROWN _{FX} TM	Liquid, seed applied in-plant inoculant for cereal crops and forage grasses grown for forage harvest	EXCEED° TRADITIONAL	Liquid seed applied single-action nitrogen fixing inoculant for grower application			
LEAF 2 RUMEN® CROWN _{FX} TM	Liquid, foliar applied in-plant inoculant for cereal crops and forage grasses grown for forage harvest	EXCEED® PEAT	Peat based, seed applied nitrogen fixing inoculant for soybeans			
GRAZE 2 RUMEN®	Liquid, foliar applied in-plant inoculant for cereal crops and	OTHER FORA	GE AND COVER CROP LEGUMES			
$CROWN_{FX^TM}$	forage grasses grown for forage harvest	EXCEED® PEAT	Peat based seed applied nitrogen fixing inoculants for alfalfa,			

Peat based seed applied nitrogen fixing inoculants for alfalfa, all clovers, birdsfoot trefoil, pea, vetches, lentils, cowpeas and sunn hemp

PLANTING INFORMATION CHART

KIND OF SEED	APPROX. SEEDS/LB	LBS/ BU	PLANTING RATE LBS/ ACRE	PLANTING RATE LBS/ACRE IN MIXES	SEEDING DEPTH	SUGGESTED PLANTING DATES	EMERGENCE TIME (DAYS)	PRIMARY USE	LIFE
Alfalfa	227,000	60	15 - 20	8 - 10	1/4" - 1/2"	Mar - May, Aug - Sep	7	Hay, Silage, Pasture	Perennial
Barley	14,000	48	30 - 100	20 - 40	3/4" - 1"	Mar - Apr, Aug - Oct	6 - 8	Pasture, Silage	Annual
Bermudagrass (Hulled)	2,071,000	40	5 - 10	N/A	⅓8"	Apr - Jun, Aug - Sep	21	Hay, Pasture	Perennial
Birdsfoot Trefoil	370,000	60	8 -10	4 - 5	1/4"	Feb - May, Aug - Sep	7	Pasture	Perennial
Bluegrass, Kentucky	2,177,000	14	10 - 15	4 - 10	1/4"	Feb - May, Aug - Sep	28	Pasture	Perennial
Brassicas, Hybrid	165,000	N/A	4 - 6	2 - 3	1/4"	Jul - Sep	4 - 6	Cover Crop	Annual
Brome, Meadow	93,000	N/A	12 - 20	5 - 10	1/4" - 1/2"	Mar - May, Aug - Sep	14	Hay, Pasture	Perennial
Brome, Smooth	138,000	14	15 - 20	5 - 10	1/4" - 1/2"	Mar - May, Aug - Sep	14	Hay, Pasture	Perennial
Buckwheat	15,000	52	40 - 55	5 - 20	½" - 1"	Jun - Jul	7	Cover Crop	Annual
Cereal Rye	18,000	56	30 - 80	20 - 40	3/4" - 1"	Mar - Apr, Aug - Oct	5 - 8	Cover Crop, Silage, Pasture	Annual
Chicory	426,000	N/A	4 - 5	2-3	1/8" - 1/4"	Apr - May, Aug - Sep	7 - 21	Pasture, Wildlife	Perennial
Clover, Alsike	728,000	60	7 - 8	1-3	1/4" - 1/2"	Feb - May, Aug - Oct	7	Hay, Pasture	Perennial
Clover, Arrowleaf	400,000	60	5 - 10	N/A	1/8" - 1/2"	Aug - Oct	7	Hay, Pasture	Annual
Clover, Balansa	500,000	00	3-6	1 - 4	1/4"	Feb - Mar, Aug - Sep	14	Cover Crop, Hay	Annual
Clover, Berseem	207,000	60	8 - 20	5 - 10	1/4"	May - Jun, Aug - Oct	5-8	Cover Crop, Hay	Annual
Clover, Crimson	150,000	60	10 - 15	4-8	1/4"	Aug - Oct	7 - 10	Cover Crop, Hay	Annual
Clover, Kura	227,000	60	10 - 15	4-8	⁷⁴ ¹ / ₄ " - ¹ / ₂ "	Apr - May, Aug	7	Hay, Pasture	Perennial
,	,							•	
Clover, Ladino White	768,000	60	4-6	2 - 4	1/8" - 1/4"	Feb - May, Aug - Oct	7 - 10	Hay, Pasture	Perennial
Clover, Mammoth Red	272,000	60	8 - 12	6-8	1/4" - 1/2"	Feb - May, Aug - Oct	7	Hay, Silage, Pasture	Biennial
Clover, Medium Red	272,000	60	8 - 12	6-8	1/4" - 1/2"	Feb - May, Aug - Oct	7	Hay, Silage, Pasture	Biennial
Clover, New Zealand White	768,000	60	4 - 6	2 - 4	1/8" - 1/4"	Feb - May, Aug - Oct	7 - 10	Pasture	Perennial
Clover, White Dutch	768,000	60	6 - 8	2 - 4	1/8" - 1/4"	Feb - May, Aug - Oct	7 - 10	Pasture	Perennial
Crownvetch	138,000	60	20 - 40	5 - 10	1∕2"	Mar - May, Aug - Sep	14	Erosion Control	Perennial
Fescue, Hard	592,000	N/A	5 - 10	N/A	1/4" - 1/2"	Feb - May, Aug - Sep	14	Erosion Control	Perennial
Fescue, Tall	227,000	25	25 - 30	6 - 12	1/4" - 1/2"	Mar - May, Aug - Sep	14	Hay, Pasture, Erosion Control	Perennial
Festulolium	227,000	N/A	30 - 40	15 - 20	1/4"	Mar - May, Aug - Sep	14	Hay, Pasture	Biennial
Hairy Vetch	16,000	60	15 - 30	10 - 20	1"	Aug - Oct	14	Cover Crop	Annual
Kale	200,000	N/A	3.5 - 4	2 - 3	1/2"	May - Jul	7	Cover Crop	Annual
Lespedeza, Korean (Hulled)	238,000	25	25 - 35	N/A	1/4" - 1/2"	Mar - Apr	14	Hay, Pasture, Erosion Control	Annual
Lespedeza, Striate (Kobe)	200,000	25	25 - 35	N/A	1/4" - 1/2"	Mar - Apr	14	Hay, Pasture, Erosion Control	Annual
Millet, Browntop	142,000	50	10 - 30	N/A	½" - 1"	May - Jul	10	Hay, Pasture	Annual
Millet, Foxtail (German)	220,000	50	20 -25	N/A	1"	May - Jul	10	Hay	Annual
Millet, Japanese	143,000	35	15 - 30	8 - 12	1"	Apr - Jul	10	Hay, Wildlife, Erosion Control	Annual
Millet, Pearl	60,000	52	10 - 30	5 - 20	½" - 1"	May - Jul	3 - 5	Pasture, Silage	Annual
Millet, Proso	80,000	56	20 - 30	5 - 20	1"	May - Jul	3 - 5	Grain, Wildlife	Annual
Oats, Spring, Fall	16,000	32	30 - 50	20 - 40	3/4" - 1"	Mar - Apr, Aug - Sep	5 - 8	Cover Crop, Silage, Hay	Annual
	416.000	14			1/4" - 1/2"	1, 0, 1	18		
Orchardgrass Peas, Austrian Winter	-,		20 - 30	3 - 10		Mar - May, Aug - Sep		Hay, Pasture	Perennial
,	2,000	60	30 - 80	10 - 30	1" - 1 ½"	Aug - Sep	9	Cover Crop	Annual
Peas, Cow	3,000	60	75 - 120	N/A	1/4" - 1/2"	May - Jul	8	Cover Crop, Silage	Annual
Phacelia	230,000	N/A	8	1 - 2	1/4"	Jun - Sep	10 - 14	Cover Crop	Annual
Radish	35,000	N/A	3-8	1-3	1/4" - 1/3"	Aug - Sep	14	Cover Crop	Annual
Rapeseed	145,000	50	4 - 6	2 - 4	1/4" - 1/2"	Apr - May, Aug - Sep	4 - 10	Cover Crop	Annual
Red Top	4,990,000	14	4 - 5	1 - 2	1/4"	Mar - May, Aug - Sep	10	Pasture, Erosion Control	Perennial
Reed Canarygrass	480,000	47	5 - 10	3 - 5	1/4" - 1/2"	Mar - May, Aug - Sep	21	Hay, Pasture	Perennial
Ryegrass, Annual	227,000	24	15 - 30	10 - 15	1/4"	Mar - Apr, Aug - Oct	7	Cover Crop, Silage, Pasture	Annual
Ryegrass, Perennial	227,000	24	30 - 40	6 - 10	1/4" - 1/2"	Feb - May, Aug - Sep	14	Hay, Pasture	Perennial
Sainfoin	30,000	55	20	15	1/2" - 3/4"	Mar - Apr	10	Hay, Pasture, Wildlife	Perennial
Sorghum, Forage	17,000	56	6 - 15	N/A	3/4" - 1 1/2"	May - Jul	10	Silage	Annual
Sorghum, Forage BMR	17,000	56	4 - 6	N/A	1"	May - Jul	10	Silage	Annual
Sorghum, Grain	15,000	50	3 - 10	N/A	1"	May - Jul	10	Grain, Wildlife	Annual
Sorghum x Sudangrass	21,000	56	25 - 50	5 - 20	3⁄4" - 1 ½"	May - Jul	10	Silage	Annual
Sorghum x Sudangrass BMR	21,000	56	15 - 35	N/A	1"	May - Jul	10	Silage	Annual
Sudangrass	43,000	40	20 - 45	N/A	½" - 1"	May - Jul	10	Hay, Pasture	Annual
Sunn Hemp	15,000	N/A	15	5 - 8	1/2" - 1"	Jul - Sep	3 - 7	Cover Crop	Annual
Sunflower	7,000	32	8-5	1-2	3/4" - 1"	May - Aug	4 - 10	Wildlife	Annual
Sweetclover	259,000		12 - 15	6-8	94 - 1 1/4" - 1/2"	Feb - May, Aug - Oct	7	Pasture, Wildlife	Biennial
		60							
Switchgrass	389,000	55	5 - 8 PLS	N/A	1/2"	Apr - May	21	Hay, Pasture, CRP	Perennial
Timothy	1,152,000	45	12 - 15	2 - 6	1/4" - 1/2"	Mar - May, Aug - Sep	10	Hay, Pasture	Perennial
Teffgrass	1,300,000	N/A	8 - 12	N/A	1/4"	May - Jul	3 - 5	Hay, Pasture	Annual
Triticale	15,000	48	30 - 100	20 - 40	3/4" - 1"	Mar - Apr, Aug - Oct	6 - 8	Hay, Pasture	Annual
Turnips	220,000	55	2 - 6	1 - 4	1/4"	Aug - Sep	4 - 10	Cover Crop	Annual
Weeping Lovegrass	1,482,320	60	3 - 5	1 - 2	1/2"	May - Jun	7	Hay, Pasture	Perennial
Wheat	11,000	60	90 - 120	60 - 90	3/4" - 1 ½"	Mar - Apr, Aug - Oct	7	Pasture, Silage	Annual

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