



FORAGE FIRST[®]
WHEN YIELD AND QUALITY MATTER[®]

**LA CROSSE
SEED**



5 SERIES[™]

PRODUCT GUIDE | 2025

Forage First® describes how we view the importance of our products when planted on your farm. We have you in mind when yield and quality matter in your farming operation; through our leading research program we provide a higher standard of forage to maximize return on investment. We take pride in delivering proven products that will exceed your expectation with high yields, solid agronomics, improved forage quality and fiber digestibility. Our promise to you is that we will continue leading the way by moving the alfalfa and forage industry to new heights. We will do our best to help you get more out of your alfalfa and forage crops.

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, stress tolerance, persistence, disease and pest resistance to suit your operation. Every top-performing variety is tested in many trials before being advanced and available to you. From the latest genetics to new seed treatments and technologies, we have you covered.

MAXIMUM FLEXIBILITY

We provide a diverse selection of products for producing high quality forage for your dairy and livestock 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.

FOCUSED ON YOU

When you choose Forage First, you benefit from dedicated technical experts and a sales team who focuses solely on alfalfa and forages. Our insight and experience across millions of acres, when combined with the knowledge you have of the specific conditions on your farm, will deliver the best seed solution for you. When it comes time to plant, you won't rely on speculation; you'll rely on proven expertise.

FORAGE FIRST + DLF: SEEDS & SCIENCE, DELIVERED

DLF and La Crosse Seed are ready to welcome you to a new era in alfalfa following DLF's acquisition of the Corteva Agriscience™ alfalfa breeding program and related assets. DLF (Dansk Landbrugs Frøelskab) 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 business through La Crosse Seed which includes strategically placed warehouses across the United States.

Still the products you know and trust, now under Forage First, 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.



TABLE OF CONTENTS

Featured Alfalfa	3 - 5	Summer Select™ Summer Annuals	7 - 8
Featured Forage First® Clovers & Grasses	5	Soil First® Cover Crop Mixes	9
Featured Forage First® Grass Mixes	5	Planting Information Chart	10
La Crosse Seed Products	6		

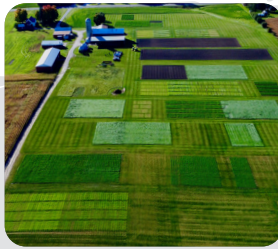
GROWING WITH DLF

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.

Connell, Washington USA



Port Hope, Ontario Canada



West Salem, Wisconsin USA



Philomath, Oregon USA



Berry, Kentucky USA



THE WORLD OF DLF



TESTING

- DLF head-to-head comparisons test current products against competitor check and experimental varieties
- This rigorous testing gives an ability to identify varieties with superior yield, persistence, faster regrowth, exceptional forage quality and superior disease resistance

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

DLF is the proven leader in developing forage grass and clover varieties that are adapted to diverse climatic and soil conditions. Our intensive breeding program is constantly developing new varieties of grass and clover species that will out-perform older generation genetics in yield, palatability, and forage quality.



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

54Q16

Cutting System: 3 - 5

- 54Q16 delivers high forage quality coupled with very good yield potential.
- Excellent disease and pest resistance to enhance stand establishment and stand persistence.
- Fall Dormancy 4 product with very good winterhardiness.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthraco-nose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	HR
Fusarium Wilt	HR		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	35/35

54Q29

Cutting System: 3 - 5

- Excellent fall dormancy 4 variety with high yield potential and excellent forage quality.
- Multi-race Aphanomyces resistance (Aph2 = R) allows for establishing in challenging environments.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	R
Anthraco-nose	HR	Pea Aphid	HR
Bacterial Wilt	HR	Spotted Alfalfa Aphid	R
Fusarium Wilt	R	Stem Nematode	HR

Fall Dormancy	4.0
Winter Survival	1.8
Total DRI	33/35

54VQ52

Cutting System: 3 - 5

- Excellent choice for high forage quality with high yield potential
- Strong disease resistance for broad adaptation to most growing environments.
- 54VQ52 has Phytophthora and multi-race Aphanomyces resistance for improved establishment success in poorly drained soils.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthraco-nose	HR	Pea Aphid	R
Bacterial Wilt	HR	Spotted Alfalfa Aphid	R
Fusarium Wilt	R	Stem Nematode	HR

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	34/35

54VQ56

Cutting System: 3 - 5

NEW

- Excellent fall dormancy 4 variety with enhanced seeding year yield and provides improved yield potential over the life of the alfalfa stand.
- Very strong disease and pest resistance allows for broad adaptation.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	HR
Anthraco-nose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	MR
Fusarium Wilt	HR		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	35/35

54H98 BRAND

Cutting System: 3 - 5

NEW

- Fall Dormancy 4 product with improved yield
- This potato leafhopper variety combines an excellent disease package with high productivity under moderate to high leafhopper pressure.
- 54H98 has an excellent disease package allowing for successful establishment in a wide range of soils.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Potato Leafhopper	HR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Blue Aphid	HR
Fusarium Wilt	HR	Spotted Alfalfa Aphid	HR

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	30/30



54HG25 BRAND

Cutting System: 3 - 5

NEW

- A high yield potential variety with Hi-Gest alfalfa technology for geographies using fall dormancy 4 varieties.
- Product of conventional plant breeding that features improved fiber digestibility, better animal performance and harvest flexibility when compared to other conventional varieties.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	R
Anthracnose	HR	Pea Aphid	MR
Bacterial Wilt	HR	Blue Aphid	R
Fusarium Wilt	HR	Spotted Alfalfa Aphid	R
		Stem Nematode	R

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	34/35



54VS72 BRAND

Cutting System: 3 - 5

NEW

- Fall dormancy 4 variety that performs well in dryland or irrigated regions where fall dormancy 3,4 or 5 alfalfa are grown.
- High yield potential and persistence when establishing alfalfa on high electrical conductivity (EC) fields or when using high EC irrigation water.
- No yield drag when planted into non-saline soils.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	R
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	R
Fusarium Wilt	HR	Salt Tolerance	G/F

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	34/35



54B66 BRAND

Cutting System: 3 - 5

- A premium blend of winterhardy genetics that work well in many alfalfa growing environments.
- Resistant to most common alfalfa diseases (DRI>30), helping to provide yield protection in all but the most extreme environments.
- Seed has fungicide and inoculants to ensure emergence and seedling growth at establishment.

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	R
Verticillium Wilt	R	Aphanomyces Race 2	MR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR		
Fusarium Wilt	R		

Fall Dormancy	4.0
Winter Survival	2.0
Total DRI	32/35

RESISTANCE RATINGS:

HR = Highly Resistant, 51% or more resistant plants
 R = Resistant, 31 - 50% resistant plants
 G/F = Salt Tolerance Germination (G), Forage (F)

MR = Moderately Resistant, 15 - 30% resistant plants
 LR = Low Resistance, 6 - 14% resistant plants

S = Susceptible, 0 - 5% resistant plants
 ◦ = Not Rated/Not Tested

5s 5 SERIES™ Comparison

	FALL DORMANCY	WINTER SURVIVAL	TOTAL DRI	CUTTING SYSTEM	DISEASE & PEST CONTROL													
					PHYTOPHTHORA ROOT ROT	VERTICILLIUM WILT	ANTHRACNOSE	BACTERIAL WILT	FUSARIUM WILT	APHANOMYCES RACE 1	APHANOMYCES RACE 2	PEA APHID	BLUE APHID	SPOTTED ALFALFA APHID	POTATO LEAFHOPPER	STEM NEMATODE	SALT TOLERANCE	
54Q16	4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	HR	HR	R	o	o	o	HR	o	
54Q29	4.0	1.8	33/35	3 - 5	HR	HR	HR	HR	R	HR	R	HR	o	R	o	HR	o	
54VQ52	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	R	HR	HR	R	o	R	o	HR	o	
54VQ56	NEW	4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	HR	R	o	o	o	MR	o	
54H98 BRAND	NEW	4.0	2.0	30/30	3 - 5	HR	HR	HR	HR	HR	o	R	HR	HR	HR	o	o	
54HG25 BRAND	NEW	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	HR	R	MR	R	R	o	R	o	
54VS72 BRAND	NEW	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	HR	R	R	o	o	o	R	G/F	
54B66 BRAND		4.0	2.0	32/35	3 - 5	HR	R	HR	HR	R	MR	R	o	o	o	o	o	

Featured Forage First® Clover & Grasses

RED CARPET® XL Red Clover		<ul style="list-style-type: none"> Best utilized for silage or spring hay Increased disease resistance to southern anthracnose & downy mildew 	<ul style="list-style-type: none"> May produce 3 cuttings on second-year stands Works well in rotational grazing programs
ECHELON Orchardgrass		<ul style="list-style-type: none"> Extremely late maturing, maintains forage quality longer between harvests Superior leaf disease resistance 	<ul style="list-style-type: none"> Perfect companion for alfalfa or clover mixes Excellent persistence & vigor Increased palatability & stand persistence
STARGRAZER XL Tall Fescue		<ul style="list-style-type: none"> Well adapted for the Midwest, Mid-Atlantic & Northeast Suitable for both pastures or hay production 	<ul style="list-style-type: none"> Slightly earlier maturing than KY31 Good yielder with excellent persistence
TOP TIM XL Timothy		<ul style="list-style-type: none"> Early maturity blend Excellent with clover or alfalfa for hay or pasture 	<ul style="list-style-type: none"> 1 - 2 weeks earlier to boot stage than Climax in most environments

Featured Forage First® Grass Mixes

	SEEDING RATE (LBS/ACRE)		SEEDING RATE (LBS/ACRE)
VERSAGRASS™ MIX	25 - 30	<p>Excellent for waterways, terraces, ditches, banks & headlands. Great for permanent pastures and companion crop for hay production.</p> <ul style="list-style-type: none"> 25% Big Ton XL Smooth Bromegrass 25% Endo-Graze XL Perennial Ryegrass 25% Haymate XL Orchardgrass 25% Top Tim XL Timothy 	GRASS MASTER MIX
			30 - 40
			<p>Endophyte-free, tall fescue & orchardgrass perform well in less-than-ideal summers. Good for grazing & hay production.</p> <ul style="list-style-type: none"> 35% Stargrazer XL Tall Fescue 35% Haymate XL Orchardgrass 15% Endo-Graze XL Perennial Ryegrass 15% Fusion XL Festulolium
BLM #4 MIX	30 - 40	<p>Versatile mix, establishes quickly. Endophyte-free tall fescue extends productivity into hot, dry summer.</p> <ul style="list-style-type: none"> 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 	MARE & FOAL MIX
			30 - 40
			<p>Ability to be productive under rotational grazing & hay production. Tolerant to heavy traffic.</p> <ul style="list-style-type: none"> 50% Haymate XL Orchardgrass 25% Top Tim XL Timothy 15% Fusion XL Festulolium 10% Balin/Ginger Kentucky Bluegrass
FESCUE BASED MIX	30 - 40	<p>Endophyte-free, fescue based pairs well with dairy quality alfalfa, or can be straight seeded for heifers.</p> <ul style="list-style-type: none"> 40% Stargrazer XL Tall Fescue 30% Meadow Fescue 20% Fusion XL Festulolium 10% Endo-Graze XL Perennial Ryegrass 	

SEE YOUR REGIONAL SALES MANAGER FOR LIST OF ADDITIONAL ALFALFA AND FORAGE OPTIONS.





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



FORAGES

- Forage grasses
- Forage legumes
- Forage mixes
- Seed inoculants
- Conservation seed/mixes
- Small grains
- Custom forage mixes



TURF

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



SUMMER ANNUALS

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



COVER CROPS

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

NATIVES & WILDFLOWERS

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

WILDLIFE

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

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

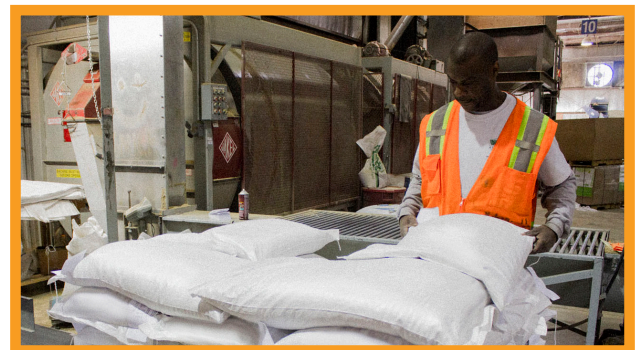
La Crosse Seed offers a vast portfolio of seed designed for many conservation applications. A partial list available through La Crosse Seed includes seed for:

- **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



Contact your
Regional Sales
Manager



SUMMER SELECT SUMMER ANNUALS

MULTI-CUT SPECIES

			MATURITY	APPROX. SEEDS PER POUND*	DRYLAND SEEDING LBS/ACRE	IRRIGATION/HI-RAIN SEEDING LBS/ACRE	RECOVERY AFTER CUTTING	LEAF DISEASE RESISTANCE	SUGARCANE APHID TOLERANCE	SINGLE SILAGE CUT SUITABILITY	RAPID DRY DOWN
SORGHUM X SUDANGRASS	QUICKDRY BMR T/TS		MED LATE	14,000 - 15,000	20 - 25	35 - 50	4	4	3	2	3
	DENSE TONNAGE BMR BD T		MED LATE	14,000 - 15,000	15 - 25	25 - 35	4	4	1	4	2
	EVERGROW BMR PPS T		LATE	14,000 - 15,000	20 - 25	35 - 50	3	5	2	3	2
	GREENSUGAR TR T		MED	16,000 - 20,000	20 - 25	50 - 60	3	3	2	2	2
	GREENSUGAR MS T		MED LATE	16,000 - 20,000	20 - 25	50 - 60	3	4	1	2	2
SUDANGRASS	BALEMORE		EARLY MED	35,000 - 40,000	15 - 25	20 - 35	3	3	1	2	4
PEARL MILLET	HERCULES BMR BD T		MED	50,000 - 60,000	10 - 12	15 - 20	5	5	5	4	4
	PERFORM T		MED	50,000 - 60,000	10 - 12	15 - 20	5	4	5	4	4
TEFF GRASS	REPRIEVE XL		NA	650,000	8 - 10	8 - 10	4	3	5	NA	4

SINGLE-CUT SPECIES

				DAYS TO HARVEST (SOFT DOUGH STAGE)	APPROX. HARVEST HEIGHT (FT)	APPROX. SEEDS PER POUND*	SEEDING 30" ROWS (LBS)	SEEDING NARROW (LBS)	RECOVERY AFTER CUTTING	STANDABILITY	SUGARCANE APHID TOLERANCE	DOUBLE CROP	OVERALL ADAPTABILITY
FORAGE SORGHUM	94 MS TS		MS	6 - 8	17,000 - 19,000	4 - 6	10 - 15	3	4	2	3	4	
	95 BMR TS		85 - 95	5 - 7	16,000 - 18,000	5 - 7	NR	2	4	3	3	5	
GRAIN SORGHUM	79 B TS	OPEN	48 - 51	80 - 85	36 - 42	13,000	25,000 - 40,000	60,000 - 75,000	5	4	4	5	2
	94 R TS	SEMI-CLOSED	68 - 71	110 - 115	50 - 56	16,000	25,000 - 40,000	60,000 - 75,000	5	4	5	4	3

	MILLET	PRIMARY FORAGE USE	PLANTING DATE	SEEDING RATE (LBS, BROADCAST - ADD 30%)	DAYS TO GRAIN MATURITY
FOXTAIL	Common Foxtail Millet	Hay or silage	May - July	20 - 25	60 - 100
	German Millet	Dry hay in 55 - 60 days	May - July	20 - 25	75 - 90
	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
	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

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

<ul style="list-style-type: none"> Widely adapted Traditional growth habit with wide, long leaves 	<ul style="list-style-type: none"> Increased sugar content = improved digestibility Fast establishment & regrowth = more productivity
<ul style="list-style-type: none"> Management friendly hybrid with greater harvest flexibility Dwarf hybrid = improved standability & higher leaf:stem ratio 	<ul style="list-style-type: none"> Suitable for grazing environments or 1-cut silage systems Increased sugar content = improved digestibility
<ul style="list-style-type: none"> Widely adapted with improved disease resistance PPS hybrids remain vegetative until mid-Sept (day length < 12h, 20m) 	<ul style="list-style-type: none"> PPS allows for wider window of harvest Build tonnage without sacrificing quality
<ul style="list-style-type: none"> Broad adaptation in a traditional, non-BMR package 	<ul style="list-style-type: none"> High yielding; increase population for improved quality
<ul style="list-style-type: none"> Higher levels of sugar/protein in vegetative portion of plant Increased disease resistance 	<ul style="list-style-type: none"> MS = no anthers, thus no pollen for self-fertilization Improved standability
<ul style="list-style-type: none"> Best summer annual option when dry hay production is planned Can also be used for grazing or green chop 	<ul style="list-style-type: none"> Strong emergence & quick regrowth
<ul style="list-style-type: none"> Versatile hybrid suitable for silage, grazing & dry hay Dwarf gene increases leaf:stem ratio & improves standability 	<ul style="list-style-type: none"> Enhanced palatability, digestibility & overall utilization No prussic acid or sugarcane aphid concerns
<ul style="list-style-type: none"> Versatile hybrid suitable for silage, grazing & dry hay Quicker regrowth compared to sorghum x sudangrass 	<ul style="list-style-type: none"> No prussic acid or sugarcane aphid concerns Shorter stature = improved standability
<ul style="list-style-type: none"> Great rotational crop between alfalfa & perennial stands Superior quality - ideal for horses & other livestock 	<ul style="list-style-type: none"> Well adapted to dry climates

YIELD FOR MATURITY	LEAF DISEASE RESISTANCE		
4	3	<ul style="list-style-type: none"> Good disease resistance Excellent regrowth for a forage sorghum 	<ul style="list-style-type: none"> Male Sterile = increased sugar accumulation
5	5	<ul style="list-style-type: none"> Early maturing dwarf BMR High grain yield for maturity 	<ul style="list-style-type: none"> Excellent leaf disease resistance Widely adapted with excellent standability

HEAD SMUT TOLERANCE	FUSARIUM TOLERANCE	MAIZE DWARF MOSAIC TOLERANCE	DOWNY MILDEW TOLERANCE		
3	4	4	3	<ul style="list-style-type: none"> Widely adapted - can go anywhere! Ultra early hybrid 	<ul style="list-style-type: none"> Exceptional drought tolerance
5	4	5	5	<ul style="list-style-type: none"> Widely adapted hybrid that yields Medium maturity 	<ul style="list-style-type: none"> Excellent sugarcane aphid tolerance & disease resistance

*Refer to seeds per lb on seed tag

TYPICAL HEIGHT & STATURE	REGROWTH AFTER CUTTING/HARVEST	ATTRIBUTES
2 - 4'	Little to no regrowth	<ul style="list-style-type: none"> Forage type millets primarily Many so called "varieties"
2 - 4'	Little regrowth	<ul style="list-style-type: none"> VERY fast growing Used primarily for hay production; seeds for wildlife
2 - 2½'	Little to no regrowth	<ul style="list-style-type: none"> VERY fast growing Earlier maturing
3 - 4'	Poor at best	<ul style="list-style-type: none"> Dual purpose - hay & grain Late maturing
2 - 2½'	Poor at best	<ul style="list-style-type: none"> Usually grown for seed - bird seed or livestock feed
2 - 4'	Leave 6 - 8" for adequate regrowth	<ul style="list-style-type: none"> Grazing / hay potential on wet soils (no prussic acid) Ideal for waterfowl / wildlife feed
3 - 6' (depending on variety)	Leave 8 - 10" for quickest regrowth	<ul style="list-style-type: none"> Very resilient - handles a variety of soil types No prussic acid concerns
2 - 4'	Leave 6 - 8" for adequate regrowth	<ul style="list-style-type: none"> Fast growing for seed mostly - wildlife Seed shatters easily - reseed potential very high



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

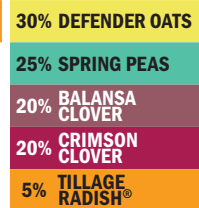


SOIL FIRST[®] 125 N-HANCER

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

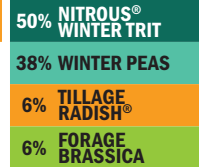


SOIL FIRST[®] 140 MULTI-PURPOSE

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 - NEW FORMULA

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

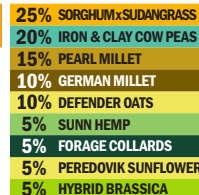


SOIL FIRST[®] 167 SUMMER BIOMASS

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

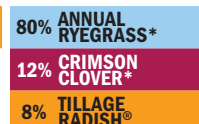


SOIL FIRST[®] 175 ACCUSPREAD

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

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	¼" - ½"	Mar - May, Aug - Sep	7	Hay, Silage, Pasture	Perennial
Barley	14,000	48	30 - 100	20 - 40	¾" - 1"	Mar - Apr, Aug - Oct	6 - 8	Pasture, Silage	Annual
Bermudagrass (Hulled)	2,071,000	40	5 - 10	N/A	½"	Apr - Jun, Aug - Sep	21	Hay, Pasture	Perennial
Birdsfoot Trefoil	370,000	60	8 - 10	4 - 5	¼"	Feb - May, Aug - Sep	7	Pasture	Perennial
Bluegrass, Kentucky	2,177,000	14	10 - 15	4 - 10	¼"	Feb - May, Aug - Sep	28	Pasture	Perennial
Brassicas, Hybrid	165,000	N/A	4 - 6	2 - 3	¼"	Jul - Sep	4 - 6	Cover Crop	Annual
Brome, Meadow	93,000	N/A	12 - 20	5 - 10	¼" - ½"	Mar - May, Aug - Sep	14	Hay, Pasture	Perennial
Brome, Smooth	138,000	14	15 - 20	5 - 10	¼" - ½"	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	¾" - 1"	Mar - Apr, Aug - Oct	5 - 8	Cover Crop, Silage, Pasture	Annual
Chicory	426,000	N/A	4 - 5	2 - 3	½" - ¾"	Apr - May, Aug - Sep	7 - 21	Pasture, Wildlife	Perennial
Clover, Alsike	728,000	60	7 - 8	1 - 3	¼" - ½"	Feb - May, Aug - Oct	7	Hay, Pasture	Perennial
Clover, Arrowleaf	400,000	60	5 - 10	N/A	½" - ¾"	Aug - Oct	7	Hay, Pasture	Annual
Clover, Balansa	500,000		3 - 6	1 - 4	¼"	Feb - Mar, Aug - Sep	14	Cover Crop, Hay	Annual
Clover, Berseem	207,000	60	8 - 20	5 - 10	¼"	May - Jun, Aug - Oct	5 - 8	Cover Crop, Hay	Annual
Clover, Crimson	150,000	60	10 - 15	4 - 8	¼"	Aug - Oct	7 - 10	Cover Crop, Hay	Annual
Clover, Kura	227,000	60	10	4 - 6	¼" - ½"	Apr - May, Aug	7	Hay, Pasture	Perennial
Clover, Ladino White	768,000	60	4 - 6	2 - 4	½" - ¾"	Feb - May, Aug - Oct	7 - 10	Hay, Pasture	Perennial
Clover, Mammoth Red	272,000	60	8 - 12	6 - 8	¼" - ½"	Feb - May, Aug - Oct	7	Hay, Silage, Pasture	Biennial
Clover, Medium Red	272,000	60	8 - 12	6 - 8	¼" - ½"	Feb - May, Aug - Oct	7	Hay, Silage, Pasture	Biennial
Clover, New Zealand White	768,000	60	4 - 6	2 - 4	½" - ¾"	Feb - May, Aug - Oct	7 - 10	Pasture	Perennial
Clover, White Dutch	768,000	60	6 - 8	2 - 4	½" - ¾"	Feb - May, Aug - Oct	7 - 10	Pasture	Perennial
Crownvetch	138,000	60	20 - 40	5 - 10	½"	Mar - May, Aug - Sep	14	Erosion Control	Perennial
Fescue, Hard	592,000	N/A	5 - 10	N/A	¼" - ½"	Feb - May, Aug - Sep	14	Erosion Control	Perennial
Fescue, Tall	227,000	25	25 - 30	6 - 12	¼" - ½"	Mar - May, Aug - Sep	14	Hay, Pasture, Erosion Control	Perennial
Festulolium	227,000	N/A	30 - 40	15 - 20	¼"	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	½"	May - Jul	7	Cover Crop	Annual
Lespedeza, Korean (Hulled)	238,000	25	25 - 35	N/A	¼" - ½"	Mar - Apr	14	Hay, Pasture, Erosion Control	Annual
Lespedeza, Striate (Kobe)	200,000	25	25 - 35	N/A	¼" - ½"	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	¾" - 1"	Mar - Apr, Aug - Sep	5 - 8	Cover Crop, Silage, Hay	Annual
Orchardgrass	416,000	14	20 - 30	3 - 10	¼" - ½"	Mar - May, Aug - Sep	18	Hay, Pasture	Perennial
Peas, Austrian Winter	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	¼" - ½"	May - Jul	8	Cover Crop, Silage	Annual
Phacelia	230,000	N/A	8	1 - 2	¼"	Jun - Sep	10 - 14	Cover Crop	Annual
Radish	35,000	N/A	3 - 8	1 - 3	¼" - ½"	Aug - Sep	14	Cover Crop	Annual
Rapeseed	145,000	50	4 - 6	2 - 4	¼" - ½"	Apr - May, Aug - Sep	4 - 10	Cover Crop	Annual
Red Top	4,990,000	14	4 - 5	1 - 2	¼"	Mar - May, Aug - Sep	10	Pasture, Erosion Control	Perennial
Reed Canarygrass	480,000	47	5 - 10	3 - 5	¼" - ½"	Mar - May, Aug - Sep	21	Hay, Pasture	Perennial
Ryegrass, Annual	227,000	24	15 - 30	10 - 15	¼"	Mar - Apr, Aug - Oct	7	Cover Crop, Silage, Pasture	Annual
Ryegrass, Perennial	227,000	24	30 - 40	6 - 10	¼" - ½"	Feb - May, Aug - Sep	14	Hay, Pasture	Perennial
Sainfoin	30,000	55	20	15	½" - ¾"	Mar - Apr	10	Hay, Pasture, Wildlife	Perennial
Sorghum, Forage	17,000	56	6 - 15	N/A	¾" - 1 ½"	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	¾" - 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	½" - 1"	Jul - Sep	3 - 7	Cover Crop	Annual
Sunflower	7,000	32	8 - 5	1 - 2	¾" - 1"	May - Aug	4 - 10	Wildlife	Annual
Sweetclover	259,000	60	12 - 15	6 - 8	¼" - ½"	Feb - May, Aug - Oct	7	Pasture, Wildlife	Biennial
Switchgrass	389,000	55	5 - 8 PLS	N/A	½"	Apr - May	21	Hay, Pasture, CRP	Perennial
Timothy	1,152,000	45	12 - 15	2 - 6	¼" - ½"	Mar - May, Aug - Sep	10	Hay, Pasture	Perennial
Teffgrass	1,300,000	N/A	8 - 12	N/A	¼"	May - Jul	3 - 5	Hay, Pasture	Annual
Triticale	15,000	48	30 - 100	20 - 40	¾" - 1"	Mar - Apr, Aug - Oct	6 - 8	Hay, Pasture	Annual
Turnips	220,000	55	2 - 6	1 - 4	¼"	Aug - Sep	4 - 10	Cover Crop	Annual
Weeping Lovegrass	1,482,320	60	3 - 5	1 - 2	½"	May - Jun	7	Hay, Pasture	Perennial
Wheat	11,000	60	90 - 120	60 - 90	¾" - 1 ½"	Mar - Apr, Aug - Oct	7	Pasture, Silage	Annual

La Crosse Seed warrants that the seed or other products sold by it conforms to the descriptions on the label within tolerances, if any, established by law. THIS EXPRESS WARRANTY EXCLUDES AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE WHICH ARE HEREBY EXPRESSLY DISCLAIMED. In any event, it is expressly agreed that liability of La Crosse Seed LLC to the Buyer or others for any loss (whether such loss results from breach of warranty, or contract, or from negligence) shall be limited solely to the amount of the purchase price of the seed or other products. This remedy hereby provided shall be the exclusive and sole remedy

of the Buyer and all other persons for such loss. In no event shall La Crosse Seed LLC be liable for any consequential or incidental damages sustained by the Buyer or any other person. No liability hereunder shall be asserted unless the Buyer or user reports to the Warrantor within a reasonable period after discovery (not to exceed 30 days), any conditions that might lead to a complaint. Our liability on the Warranty is limited in amount to the purchase price of the seed. By acceptance of the seed or other products, the Buyer acknowledges that the limitations and disclaimers herein set forth are conditions of the sale and constitute the entire agreement between the parties regarding warranty or other liabilities and the remedy therefor.



FORAGE FIRST®
WHEN YIELD AND QUALITY MATTER®



5 SERIES™



La Crosse Seed Supports the U.S. Alfalfa Farmer Research Initiative managed by the National Alfalfa and Forage Alliance (NAFA). The goal of the initiative is to raise funds via a checkoff to invest in public research for alfalfa and alfalfa systems. The purchase of Forage First® alfalfa contributes \$1.50 from each bag of seed to the U.S. Alfalfa Farmer Research Initiative for public research.

La Crosse Seed Headquarters
2541 Commerce Street
La Crosse, WI 54603

800.356.SEED
lacrosseseed.com
info@laxseed.com

**Contact your
Regional Sales
Manager**

