



5 SERIES™

PRODUCT GUIDE I 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 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 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.







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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



THE WORLD OF DLF

Port Hope, Ontario Canada West Salem, Wisconsin USA



Philomath, Oregon USA

Berry, Kentucky USA



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
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	HR
Fusarium Wilt	HR		
Fall Dormancy	4.0		
Winter Survival	2.0		
Total DRI	35/3	5	

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 Verticillium Wilt Anthracnose Bacterial Wilt Fusarium Wilt	HR HR HR R	Aphanomyces Race 1 Aphanomyces Race 2 Pea Aphid Spotted Alfalfa Aphid Stem Nematode	HR HR R R HR
Fall Dormancy Winter Survival Total DRI	4.0 2.0 34/3	5	

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 Verticillium Wilt Anthracnose Bacterial Wilt Fusarium Wilt	HR HR HR R	Aphanomyces Race 1 Aphanomyces Race 2 Pea Aphid Spotted Alfalfa Aphid Stem Nematode	HR R HR R HR
Fall Dormancy Winter Survival Total DRI	4.0 1.8 33/3	5	

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
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Stem Nematode	MR
Fusarium Wilt	HR		
Fall Dormancy	4.0		
Winter Survival	2.0		
Total DRI	35/3	5	

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 Verticillium Wilt Anthracnose Bacterial Wilt Fusarium Wilt	HR HR HR HR	Aphanomyces Race 1 Potato Leafhopper Pea Aphid Blue Aphid Spotted Alfalfa Aphid	HR HR R HR
Fall Dormancy Winter Survival Total DRI	4.0 2.0 30/30)	LEAFHOPPER PROTECTION

54VS72 BRAND

Cutting System: 3 - 5

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NEW
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• 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 Verticillium Wilt Anthracnose Bacterial Wilt Fusarium Wilt	HR HR HR HR	Aphanomyces Race 1 Aphanomyces Race 2 Pea Aphid Stem Nematode Salt Tolerance	HR R R G/F
Fall Dormancy Winter Survival Total DRI	4.0 2.0 34/35	5	SALI TOLERANT

54HG25 BRAND

Cutting System: 3 - 5

- 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.

NEW

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	. HR
Verticillium Wilt	HR	Aphanomyces Race 2	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		Hi-Gest
Winter Survival	2.0		ALFALFA
Total DRI	34/35	5	TECHNOLOGY

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	32/3	5	

0

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

DISEASE & PEST CONTROL

5 SERIES [™] Comparison	FALL DORMANCY	WINTER SURVIVAL	total dri	CUTTING SYSTEM	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
	4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	HR	HR	R	0	0	0	HR	0
54Q29	4.0	1.8	33/35	3 - 5	HR	HR	HR	HR	R	HR	R	HR	0	R	0	HR	0
54VQ52	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	R	HR	HR	R	0	R	0	HR	0
54VQ56 NEW	4.0	2.0	35/35	3 - 5	HR	HR	HR	HR	HR	HR	HR	R	0	0	0	MR	0
54H98 BRAND NEW 🖃	4.0	2.0	30/30	3 - 5	HR	HR	HR	HR	HR	HR	0	R	HR	HR	HR	0	0
54HG25 BRAND NEW Hi-Gest	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	HR	HR	R	MR	R	R	0	R	0
54VS72 BRAND NEW	4.0	2.0	34/35	3 - 5	HR	HR	HR	HR	HR	HR	R	R	0	0	0	R	G/F
54B66 BRAND	4.0	2.0	32/35	3 - 5	HR	R	HR	HR	R	R	MR	R	o	0	0	0	0

Featured Forage First® Clover & Grasses

RED CARPET [®] XL Red Clover	XL	 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
ECHELON Orchardgrass	M DLF	 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
STARGRAZER XL Tall Fescue	XL	 Well adapted for the Midwest, Mid-Atlantic & Northeast Suitable for both pastures or hay production 	Slightly earlier maturing than KY31Good yielder with excellent persistence
TOP TIM XL Timothy	XL	Early maturity blendExcellent with clover or alfalfa for hay or pasture	 1 - 2 weeks earlier to boot stage than Climax in most environments

Featured Forage First[®] Grass Mixes

VERSAGRASS[™] MIX

SEEDING RATE (LBS/ACRE)

25 - 30

30 - 40

30 - 40

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

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

FESCUE BASED MIX

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

GRASS MASTER MIX

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

- 35% Haymate XL Orchardgrass

35% Stargrazer XL Tall Fescue

- 15% Endo-Graze XL Perennial Ryegrass
- 15% Fusion XL Festulolium

MARE & FOAL MIX

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

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



SEEDING RATE (LBS/ACRE)

30 - 40

30 - 40







DLF Variety

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

FORAGE FIRST® BY DLF FORAGES	 Forage grasses Forage legumes Forage mixes Seed inoculants Conservation seed/mixes Small grains Custom forage mixes 	EARTH CARPET® BY DLF TURF	 Turf seed Turf mixes Custom turf mixes Conservation mixes Erosion control
SUMMER SELECT SUMMER ANNUALS	 Sorghum x Sudan Sudangrass Forage Sorghum Millets Teffgrass 	SOIL FIRST® BY DLF COVER CROPS	 Cover crop seed Cover crop mixes Custom cover crop mixes Seed inoculants
and the second			
NATIVES & WILDFLOWERS	 Native grasses Conservation seed mixes Wildflowers/forbs Custom conservation seed fixes NRCS, CRP, Pollinator) 	DEER CREEK® SEED BY DLF WILDLIFE	Food plot seedFood plot mixesCustom wildlife mixes
	I 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?
- $\, \ast \,$ 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



				R SUI			N	IATURII	Ϋ́	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
			QUICKD	RY BMR T/TS	BMR 6		N	1ED LAT	Έ	14,000 - 15,000	20 - 25	35 - 50	4	4	3	2	3
			DENSE TONNAG	E BMR BD ^T	BMR 6	BD	N	1ED LAT	E	14,000 - 15,000	15 - 25	25 - 35	4	4	1	2 3 4 2 2 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 5 5 2 4 4 5 5 5 2 4	2
		HUM X NGRASS	EVERGROW	BMR PPS ^T	BMR 6	PPS		LATE		14,000 - 15,000	20 - 25	35 - 50	3	5	2	3	2
CIES			GREENSUGAR TR T				MED		16,000 - 20,000	20 - 25	50 - 60	3	3	2	2	2	
UT SPE			GREENS	UGAR MS ^T		(S) MS	IV	1ED LAT	Έ	16,000 - 20,000	20 - 25	50 - 60	3	4	1	2	2
MULTI-CUT SPECIES	SUDA	ANGRASS	BALEMORE				E	ARLY MI	ED	35,000 - 40,000	15 - 25	20 - 35	3	3	1	2	4
	Р	PEARL	HERCULE	S BMR BD ^T	BMR 6	BD		MED		50,000 - 60,000	10 - 12	15 - 20	5	5	5	4	4
	M	IILLET	PERFORM ^T					MED		50,000 - 60,000	10 - 12	15 - 20	5	4	5	4	4
		TEFF RASS	R	EPRIEVE XL		\$		NA		650,000	8 - 10	8 - 10	4	3	5	NA	4
							HAR (Si Doi	S TO VEST DFT JGH JGE)	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
ES	FO	DRAGE		94 MS ^{TS}		S MS	N	IS	6 - 8	17,000 - 19,000	4 - 6	10 - 15	3	4	2	3	4
LE-CUT SPECIES		RGHUM		95 BMR ^{TS}	BMR 12	DWARF	85	- 95	5 - 7	16,000 - 18,000	5 - 7	NR	2	4	3	3	5
SINGLE-CU1					PANICLE TYPE	GRAIN COLOR	MID-BLOOM (DAYS)	GRAIN MATURITY (DAYS)	APPROX. HEIGHT (IN)	APPROX. Seeds Per Pound*	DRYLAND POPULATION / ACRE	IRRIGATED Population / Acre	HEAD EXERTION	STANDABILITY	SUGARCANE Aphid Tolerance	PRE-FLOWER Stress Tolerance	ANTHRACNOSE TOLERANCE
	G	RAIN		79 B ^{TS}	OPEN	BRONZE/RED	48 - 51	80 - 85	36 - 42	13,000	25,000 - 40,000	60,000 - 75,000	5	4	4	5	2
	SOI	RGHUM		94 R ^{TS}	SEMI- CLOSED	RED	68 - 71	110 - 115	50 - 56	16,000	25,000 - 40,000	60,000 - 75,000	5	4	5	4	3
		MILLET		/ARY AGE USE				PLANTI DATE	NG	SEEDING (LBS, BR(RATE Dadcast -	ADD 30%)		(S TO Ain M	IATURI	ТҮ	
		Common Fox	tail Millet Hay o	or silage				May - Jul	y	20 - 25			60 -	100			
	FOXTAIL	German Mille		Dry hay in 55 - 60 days			May - July		20 - 25			75 - 90					
	Ê	Siberian Mill	et Dry h	ay in 40 - 50 day	S		l	May - Jul	y	20 - 25			60 -	80			
		White Wonde	er Millet Dry hay in 50 - 55 day		5		May - July		20		70 - 90						
		White Proso						May - Jul		20 - 25			70 -				
	SING	Japanese Mi	llet Grazi	ng; dry hay in 45	- 50 day	S	1	April - Jul	У	15 - 20			60 -	70			
	GRAZING	Pearl Millet		ng in 35 - 40 day can ensile or gre			I	May - Jul	y	12 - 20			60 -	70			

May - July

20 - 25

60

Brown Top Millet

Thin stems make dry hay more suitable

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	= P00I	R, 5 = E	XCELLE	ENT	
•	Widely Traditi	/ adapte onal gro	ed wth hat	pit with wide, long leaves	 Increased sugar content = improved digestibility Fast establishment & regrowth = more productivity
•	Manag Dwarf I	gement f hybrid =	riendly h improve	ybrid with greater harvest flexibility ed standability & higher leaf:stem ratio	 Suitable for grazing environments or 1-cut silage systems Increased sugar content = improved digestibility
•	Widely PPS hy	/ adapteo /brids rei	d with in main veg	nproved disease resistance getative until mid-Sept (day length < 12h, 20m)	PPS allows for wider window of harvestBuild tonnage without sacrificing quality
•	Broad	adaptat	ion in a t	traditional, non-BMR package	High yielding; increase population for improved quality
•	Higher Increa	r levels o sed dise	of sugar, ease res	/protein in vegetative portion of plant istance	 MS = no anthers, thus no pollen for self-fertilization Improved standability
				option when dry hay production is planned grazing or green chop	Strong emergence & quick regrowth
				ole for silage, grazing & dry hay leaf:stem ratio & improves standability	 Enhanced palatability, digestibility & overall utilization No prussic acid or sugarcane aphid concerns
				ole for silage, grazing & dry hay pared to sorghum x sudangrass	 No prussic acid or sugarcane aphid concerns Shorter stature = improved standability
				between alfalfa & perennial stands al for horses & other livestock	Well adapted to dry climates
YIELD FOR MATURITY	LEAF DISEASE Resistance				
4	3			Good disease resistanceExcellent regrowth for a forage sorghum	 Male Sterile = increased sugar accumulation
5	5			Early maturing dwarf BMRHigh grain yield for maturity	Excellent leaf disease resistanceWidely adapted with excellent standability
HEAD SMUT Tolerance	FUSARIUM Tolerance	MAIZE DWARF Mosaic Tolerance	DOWNY MILDEW Tolerance		
3	4	4	3	 Widely adapted - can go anywhere! Ultra early hybrid 	Exceptional drought tolerance
5	4	5	5	Widely adapted hybrid that yieldsMedium maturity	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	Forage type millets primarilyMany 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 - 21⁄2'	Little to no regrowth	VERY fast growing Earlier maturing	Shorter statureBest suited in Northern Plains
3 - 4'	Poor at best	 Dual purpose - hay & grain Late maturing 	Heavy stem & taller than most foxtail types
2 - 21/2'	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 & floodingAlso used for erosion control
3 - 6' (depending on variety)	Leave 8 - 10" for quickest regrowth	Very resilient - handles a variety of soil typesNo 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

	PREMILIN COVER PREMILIN COVER CROP MIXES		Soil First® Mixes Work Great for Food Plots!
Sol First	IL FIRST® 101 COVER STARTER hple. Practical. A low-risk option for early adopters and growers looking for flexibility. or multiple regions & marginal soil environments • Winter-hardy rye will sequester excess nitrogen EDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50	91% GUARDIAN® 91% WINTER RYE 9% TILLAGE RADISH®	
Sol First	IL FIRST® 102 COVER STARTER + Iding nitrogen and root mass while improving soil tilth and biomass potential. erfect before both corn or soybeans • Ideal for Southern Corn Belt & beyond EDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50	72% GUARDIAN® WINTER RYE 20% CRIMSON 20% CLOVER 8% TILLAGE RADISH®	
Sold First Construct to the first Construct to the first Construct to the first Construct t	IL FIRST® 121 BRASSICA BOOST ring with other species is great for forage or grazing and providing high biomass potential erfect supplement for cereal grains like rye & oats • Will scavenge for excess nutrients left in the soil EDING RATE (LBS/ACRE) Drill: 6 - 8 Broadcast: 8 - 10 Aerial: 10 - 15 Supplemental: 2 - 4	50% PURPLE TOP TURNIPS 50% TILLAGE 50% RADISH®	
Sol First 225 • Str	IL FIRST® 125 N-HANCER avy legume mix intended for adding Nitrogen. rong nitrogen fixing mix • Ideal as fall forage mix EDING RATE (LBS/ACRE) Drill: 35 - 40 Broadcast: 40 - 50 Aerial: NR Forage: 40 - 50	30% DEFENDER OATS25% SPRING PEAS20% CLOVER20% CRIMSON20% CRIMSON5% TILLAGE5% TILLAGE	
For land	IL FIRST® 140 MULTI-PURPOSE livestock grazers providing soil protection & biomass from fall through spring. arly seeding/late fall silage opportunity • Ideal forage for beef/non-lactating dairy EDING RATE (LBS/ACRE) Drill: 35 - 40 Broadcast: 40 - 50 Aerial: NR Forage: 40 - 50	50% NITROUS® WINTER TRIT 38% WINTER PEAS 6% TILLAGE 6% FORAGE 6% FORAGE BRASSICA	
Soft First Contract of the second sec	IL FIRST® 142 CLASSIC - NEW FORMULA early planting windows – double-crop, prevent plant, interseeding. eal for acres going to corn or other grass crops • Plant early to maximize production EDING RATE (LBS/ACRE) Drill: 12 - 15 Broadcast: 15 - 20 Aerial: 20 - 25 Forage: 15 - 20	85% CRIMSON LOVER 15% TILLAGE RADISH®	
Sol Francisco Sol Francisco So	IL FIRST [®] 150 FIELD FIT aightforward & flexible mix with very minimal spring management. interkills in most northern climates • Great for sequestering leftover nutrients EDING RATE (LBS/ACRE) Drill: 30 - 35 Broadcast: 35 - 40 Aerial: 30 - 40 Forage: 40 - 50	90% DEFENDER OATS 10% TILLAGE RADISH®	
Solution and the solution of t	IL FIRST® 160 ROOTING nd of radish & ryegrass maximizes root mass and captures nutrients. est for breaking up compaction & catching nutrients • Perfect in manure systems EDING RATE (LBS/ACRE) Drill: 15 - 20 Broadcast: 20 - 25 Aerial: 20 - 25 Forage: 20 - 25	88% ANNUAL RYEGRASS 12% TILLAGE RADISH®	
Source and the second s	IL FIRST® 167 SUMMER BIOMASS se of 50% warm-season annual grasses is optimized for biomass & is uniquely suited for grazing. olerates poor soil, low pH, & drought environments • Species diversity helps soil aggregate stability EDING RATE (LBS/ACRE) Drill: 15 - 20 Broadcast: 20 - 25 Aerial: NR Forage: 25 - 30	25% SORCHUM×SUDANGRASS 20% IRON & CLAY COW PEAS 15% PEARL MILLET 10% GERMAN MILLET 10% DEFENDER OATS 5% SUNN HEMP 5% FORAGE COLLARDS 5% PEREDOVIK SUNFLOWER 5% HYBRID BRASSICA	
Sol First Coase and the second	IL FIRST® 175 ACCUSPREAD ated clover and ryegrass creates spread patterns and broadcast germination. reat compaction alleviation & nutrient scavenging • Facilitates more accurate broadcast seeding patterns EDING RATE (LBS/ACRE) Drill: 20 - 25 Broadcast: 25 - 30 Aerial: 25 - 30 Forage: 25 - 30	80% ANNUAL RYEGRASS* 12% CRIMSON 2000 CRIMSON 8% TILLAGE 8% TILLAGE 8% COATED	

Planting Information Chart

			PLANTING	PLANTING RATE					
KIND OF SEED	APPROX. SEEDS/LB	LBS/ BU	RATE LBS/ ACRE	LBS/ACRE IN MIXES	SEEDING DEPTH	SUGGESTED PLANTING DATES	EMERGENCE TIME (DAYS)	PRIMARY USE	LIFE
Alfalfa	227,000	60	15 - 20	8 - 10	½" - ½"	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	1⁄8"	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		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 10	4 - 6	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	74 - 72 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	1⁄2" - 1"	May - Jul	10	Hay, Pasture	Annual
Millet, Foxtail (German)	220,000	50	20 - 25	N/A	1"	May - Jul	10	Нау	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
Orchardgrass	416,000	14	20 - 30	3 - 10	1/4" - 1/2"	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	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	72 - 74 3/4" - 1 1/2"	May - Jul	10	Silage	Annual
Sorghum, Forage BMR	17,000	56	4-6	N/A N/A	74 - 1 72 1"	May - Jul	10	Silage	Annual
Sorghum, Forage BMR Sorghum, Grain					1 1"			Grain, Wildlife	
Sorghum, Grain	15,000	50	3 - 10 25 - 50	N/A	1 3⁄4" - 1 ½"	May - Jul	10		Annual
0 0	21,000	56		5-20		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	3⁄4" - 1"	May - Aug	4 - 10	Wildlife	Annual
Sweetclover	259,000	60	12 - 15	6 - 8	1/4" - 1/2"	Feb - May, Aug - Oct	7	Pasture, Wildlife	Biennial
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
		60	90 - 120	60 - 90	3⁄4" - 1 1⁄2"	Mar - Apr, Aug - Oct	7	Pasture, Silage	Annual

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