



FORAGE FIRST WHEN YIELD AND QUALITY MATTER®

SEED GUIDE | EDITION 11



Greater Potential. Good Move.

Choose a Higher Forage Standard at a Practical Price

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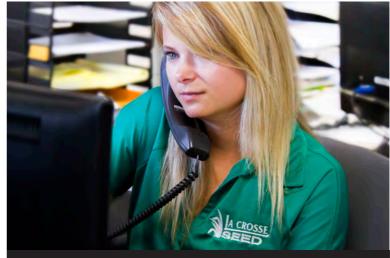
Placing an Order Has Never Been Easier:

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



Phone: Call to talk with a Sales Support Specialist

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



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

We Deliver More Than Seed

Premium seed isn't enough. We also bring effective marketing solutions plus training, tools & tips to help you succeed.





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 top-performing variety is tested in many trials before being put to use. From the latest genetics to new treatments and technologies, we have you covered.

FORAGE WITH MORE PROFIT POTENTIAL

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

MAXIMUM FLEXIBILITY

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

La Crosse Seed + DLF: Seeds & Science, Delivered

DLF Pickseed acquired La Crosse Seed in 2018, aligning us with DLF Seeds, the global leader in research, development, production and distribution of forage and other seed.

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

As disease, climate and weather patterns continue to change, new genetics are needed to succeed. DLF leads the industry in developing products with useful forage traits found throughout our Forage First[®] lineup:

- Festulolium
- US bred orchardgrass
- High fiber digestibility
- Grasshance[®]
- More Milk with DLF





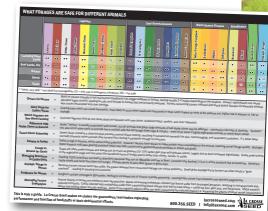
Important Forage Considerations

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.

ONLINE RESOURCES

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

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





▲ Less Nitrogen More Nitrogen ▲

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.



Forage First[®] species that will include CrosseCoat^m are denoted throughout this guide with the CrosseCoat^m symbol.



The XL symbol throughout the guide represents branded products that meet the Forage First[®] promise. XL brands contain one or more improved varieties.



We've been buying seed from La Crosse Seed for 25 years. This year we've added Forage First alfalfa to our product line. The product performance always meets our high expectations and my growers seem very satisfied."

Greg G., Eastern Wisconsin

FF 4319.A2 RR

Cutting System: 3 - 5

- Higher Aphanomyces 2 resistance with Roundup Ready[®] technology
- Disease resistance package promotes stand establishment in wet soils
- Even greater winter survival & persistence
- High multileaf expression
- · Long stand life in adverse weather & soil conditions

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	Potato Leafhopper	NR
Fusarium Wilt	HR		
Fall Dormancy	4.3		
Winter Survival	1.0	Roundup Ready	CROSSECOAT™
Total DRI	35/35	ALFALFA	

FF 4215.HVX RR

Cutting System: 3 - 5

- Manage yield without quality trade-off
- Greater flexibility with wide cutting windows
- Less lignin with higher NDFD*
- Fast recovery in frequent harvest schedules
- Excellent winter hardiness
- Superb yield potential maximizes feed value
- High multileaf expression

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	Potato Leafhopper	NR
Fusarium Wilt	HR	Stem Nematode	R
Fall Dormancy	4.2	HARVATRA	
Winter Survival	1.5	with Roundup Ready" Technology	CROSSECOAT™
Total DRI	34/35		

*Neutral Detergent Fiber Digestibility

FF 4022.LH

Cutting System: 3 - 5

- · High yielding leafhopper alfalfa
- Latest generation of leafhopper resistance with improved leafhopper expression
- · Resistant to both pea aphids & stem nematode
- High multileaf expression
- Widely adapted across the Midwest

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	NR
Anthracnose	HR	Pea Aphid	R
Bacterial Wilt	HR	Potato Leafhopper	HR
Fusarium Wilt	HR	Stem Nematode	R
Fall Dormancy	4.0		
Winter Survival	2.2	LEAFHOPPER	CROSSECOAT TM
Total DRI	30/30	PROTECTION	

ROUNDUP READY® ALFALFA GEOGRAPHICAL LIMITATIONS Due to the unique cropping practices do not plant Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

HARVXTRA® ALFALFA GEOGRAPHICAL LIMITATIONS In the following states, purchase and use of HarvXtra® Alfalfa with Roundup Ready® Technology is subject to a Seed and Feed Use Agreement, requiring that products of this technology can only be used on farm or otherwise be used in the United States: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. In addition, due to the unique cropping practices do not plant HarvXtra® Alfalfa with Roundup Ready® Technology in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

ROUNDUP READY® ALFALFA MARKETING STATEMENT Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Roundup Ready® Alfalfa has pending import approvals. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Growers should refer to http://www.biotradestatus.com/ for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

FF 42.A2

Cutting System: 3 - 5

- Highly resistant to Aphanomyces 2
- Perfect disease resistance package
- Top forage yielder in trials
- · Better suited for establishment in heavy & wet soils
- Fast recovery after cutting
- Even greater winter survival & persistence
- High multileaf expression

DISEASE & PEST CONTROL

F	Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
١	/erticillium Wilt	HR	Aphanomyces Race 2	HR
A	Anthracnose	HR	Pea Aphid	R
E	Bacterial Wilt	HR	Potato Leafhopper	NR
F	usarium Wilt	HR	Stem Nematode	HR
F	all Dormancy	4.0		
٧	Vinter Survival	1.1		CROSSECOATIM
Т	otal DRI	35/35		

FF PREMIUM Brand

Cutting System: 3 - 4

- · Solid performance at a modest price
- Improved disease resistance
- Widely adapted

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	NR
Anthracnose	R	Pea Aphid	NR
Bacterial Wilt	HR	Potato Leafhopper	NR
Fusarium Wilt	R		
Fall Dormancy	4.0		
Winter Survival	2.0		CROSSECOAT TM
Total DRI	28/30		

FF 5020.FR

Cutting System: 4 - 5

- Fast recovery after cutting & later fall dormancy
- Excellent forage yield potential combined with excellent winter hardiness
- Resistance to several important alfalfa pests including pea aphids & stem nematode

DISEASE & PEST CONTROL

Phytophthora Root Rot	HR	Aphanomyces Race 1	HR
Verticillium Wilt	HR	Aphanomyces Race 2	NR
Anthracnose	HR	Pea Aphid	HR
Bacterial Wilt	HR	Potato Leafhopper	NR
Fusarium Wilt	HR	Stem Nematode	R
Fall Dormancy	4.9		
Winter Survival	2.0		CROSSECOAT™
Total DRI	30/30		

FF PRO Brand

Cutting System: 2 - 4

- Consistent performance at a budget price
- · Widely adapted

DISEASE & PEST CONTROL

DISEASE & LOT CONT	NOL		
Phytophthora Root Rot	HR	Aphanomyces Race 1	R
Verticillium Wilt	R	Aphanomyces Race 2	NR
Anthracnose	R	Pea Aphid	NR
Bacterial Wilt	R	Potato Leafhopper	NR
Fusarium Wilt	R		
Fall Dormancy	3.0		
Winter Survival	2.4		CROSSECOAT TM
Total DRI	25/30		

RESISTANCE RATINGS:

- HR = Highly Resistant, 51% or more resistant plants
- R = Resistant, 31 50% resistant plants
- MR = Moderately Resistant, 15 30% resistant plants LR = Low Resistance, 6 - 14% resistant plants
- S = Susceptible, 0 5% resistant plants NR = Not Rated

HARVXTRA® ALFALFA ROUNDUP READY® TECHNOLOGY MARKETING STATEMENT Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. HarvXtra® Alfalfa with Roundup Ready® Technology has pending import approvals. GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Growers should refer to http://www.biotradestatus.com/ for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

TRADEMARK STATEMENT ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Roundup Ready® is registered trademarks of Monsanto Technology LLC, used under license by Forage Genetics International, LLC. HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® Alfalfa with Roundup Ready® technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc.

Alfalfa

FORAGE FIRST®			
	HARVER	 Manage yield without quality trade-off Greater flexibility with wide cutting windows Less lignin with higher NDFD* Fast recovery in frequent harvest schedules 	 Excellent winter hardiness Superb yield potential maximizes feed value High multileaf expression
☆ FF 4319.A2 RR	Roundup Ready AltAlfA	 Higher Aphanomyces 2 resistance with Roundup Ready[®] technology Disease resistance package promotes stand establishment in wet soils 	 Even greater winter survival & persistence High multileaf expression Long stand life in adverse weather & soil conditions
☆ FF 4022.LH	Ð	 High yielding leafhopper alfalfa Latest generation of leafhopper resistance with improved leafhopper expression 	 Resistant to both pea aphids & stem nematode High multileaf expression Widely adapted across the Midwest
☆ FF 42.A2		 Highly resistant to Aphanomyces 2 Perfect disease resistance package Top forage yielder in trials Better suited for establishment in heavy & wet soils 	Fast recovery after cuttingEven greater winter survival & persistenceHigh multileaf expression
☆ FF 5020.FR		 Fast recovery after cutting & later fall dormancy Excellent forage yield potential combined with excellent winter hardiness 	Resistance to several important alfalfa pests including pea aphids & stem nematode
FF PREMIUM Brand		Solid performance at a modest priceImproved disease resistance	Widely adapted
FF PRO Brand		Consistent performance at a budget price	Widely adapted

FARM SCIENCE GENETICS®

FSG 408DP		Wide, deep-set crownsStands up to wheel traffic pressure	 Superior winter hardiness & persistence High yield potential - hay or graze 		
FSG 415BR	(1)	Branch rooting systemAphanomyces 2 resistanceStands up to wheel traffic pressure	High yield & quality potentialAdapted to variable soil conditions		
FSG 423ST	\bigtriangleup	Higher forage production in saline soilFine-stemmed with superior forage quality	 High resistance to stem & northern root-knot nematodes 		
FSG 431RRLH		Highly resistant to potato leafhopperExcellent winter hardiness & persistence	Great forage yield potential & qualityHigh multifoliate leaf expression		
W-L®					
WL 349HQ		 Enhanced disease package delivers yield advantage Dark green, fine-stemmed & highly palatable High resistance to Anthracnose Race 5 	 Great standability in intensive harvest situations Highly resistant to Aphanomyces 1, 2 & 3 Replaces WL 354HQ 		
WL 356HQ.RR	Roundup Ready AUAUA	Outstanding yield & quality combination with unbeatable disease tolerance	 Highest Aphanomyces 1 & 2 resistance in a Roundup Ready[®] variety available 		
WL 358LH	ľ	8th generation potato leafhopper resistant	HopperShield - Over 90% leafhopper control		
WL 359LH.RR	Ready Alfalia	- 8th generation potato leafhopper HopperShield resistant "stack" with Roundup Ready $^{\circledast}$	 Superb yielding fall dormancy coupled with excellent winter hardiness 		
WL 365HQ		W-L's highest yielding conventional varietyHigh forage quality for cash hay or dairy operations	Outstanding winter hardiness		
WL 372HQ.RR	Roundup Ready AUGUS	For aggressive & intensive managersHighly resistant to stem nematode	Unbeatable recovery after cutting		
WL 375HVX.RR	HARV TRA	 Superb yield potential, agronomics & flexibility under 4, 5 & 6 cut systems 	Multi-race resistance to anthracnoseHighly resistant to Aphanomyces 1, 2 & 3		

							DISE	ASE & I	PEST CO	NTROL				GENERAL CHARACTERISTICS
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	POTATO LEAFHOPPER	STEM NEMATODE	ESTABLISHMENT PERSISTENCE DROUGHT TOLERANCE WINTER HARDINESS PALATABILITY
														YIELD POTENTIAL
4.2	1.5	34/35	3 - 5	HR	HR	HR	HR	HR	HR	R	R	NR	R	GRAZING TOLERANCE
														SPRING PLANTING
 4.0	1.0	25/25	о г								D	ND	ND	FALL PLANTING
4.3	1.0	35/35	3-5	HR	HR	HR	HR	HR	HR	HR	R	NR	NR	LIFE CYCLE
														SEEDING RATE (LBS/ACRE)
4.0	2.2	30/30	3 - 5	HR	HR	HR	HR	HR	HR	NR	R	HR	R	ALONE MIXES
 1.0	1 1	25/25	2 5	ЦП	HR	HR	HR	HR	HR	HR	R	NR	NR	EMERGENCE (DAYS)
4.0	1.1	35/35	3-5	HR	пк	пк	пк	пк	пк	пк	ĸ	INK	INK	HARVEST MANAGEMENT
4.9	2.0	30/30	4 - 5	HR	HR	HR	HR	HR	HR	NR	HR	NR	R	be 4 weeks before 1st killing frost *Neutral Detergent Fiber Digestik
4.0	2.0	28/30	3 - 4	HR	HR	R	HR	R	HR	NR	NR	NR	NR	ICON KEY:
3.0	2.4	25/30	2 - 4	HR	R	R	R	R	R	NR	NR	NR	NR	EAFHOPPER PROTECTION
														SALT TOLERANT
4.0	1.9	28/30	4 - 5	HR	R	HR	HR	HR	R	NR	R	NR	NR	CROSSECOAT™ TECH
 4.0	2.0	34/35	4 - 6	HR	HR	HR	HR	HR	HR	R	NR	NR	NR	
4.0	2.0	28/30	4 - 5	HR	HR	R	HR	HR	R	NR	R	NR	HR	
4.0	2.0	30/30	4 - 5	HR	HR	HR	HR	HR	HR	NR	R	HR	MR	
														RESISTANCE RATINGS: HR = Highly Resistant 51% or more resistant plar
4.4	1.7	45/45	4 - 5	HR	HR	HR	HR	HR	HR	HR	R	NR	R	R = Resistant 31 - 50% resistant plants MR = Moderately Resistant
3.8	1.6	35/35	3 - 5	HR	HR	HR	HR	HR	HR	HR	R	NR	HR	15 - 30% resistant plants LR = Low Resistance 6 - 14% resistant plants
4.1	2.0	34/35	3 - 5	HR	HR	HR	HR	HR	HR	R	R	HR	R	S = Susceptible 0 - 5% resistant plants
3.9	2.2	34/35	4 - 6	HR	HR	HR	HR	HR	HR	R	R	HR	R	NR = Not Rated
4.9	1.1	34/35	4 - 6	HR	HR	HR	HR	HR	HR	R	HR	NR	R	
4.8	1.8	34/35		HR	HR	HR	HR	HR	HR	R	HR	NR	HR	
4.6	2.1	40/40	3 - 5	HR	HR	HR	HR	HR	HR	HR	R	NR	HR	

BLISHMENT	

FAST

PERSISTENCE	HIGH
DROUGHT TOLERANCE	HIGH
WINTER HARDINESS	VARIES
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	VARIES

MES

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

TE (LBS/ACRE)

ALONE	15 - 20
MIXES	8 - 10
EMERGENCE (DAYS)	7- 14

ANAGEMENT

loom; last cutting of season should efore 1st killing frost

ergent Fiber Digestibility

- EAFHOPPER PROTECTION
- URABLE ROOT STRUCTURE
- ALT TOLERANT
- ROSSECOAT[™] TECHNOLOGY

RESISTANCE RATINGS:			
HR = Highly Resistant			
51% or more resistant plants			
R = Resistant			
31 - 50% resistant plants			
MR = Moderately Resistant			
15 - 30% resistant plants			
LR = Low Resistance			
6 - 14% resistant plants			
S = Susceptible			

- resistant plants
- ated

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.

<u>,</u>	, ,	1 0 0, 11 11	0	, -		
FF 9615	Develop • Develop Northe	ped in & ADAPTED for the upper Mid ast		High forage qualityExcellent stand persistence		
			lisease resistance to southern anthracnose • Works well in rotational grazin,			
DURATION		eld potential & excellent winter hardi d in La Crosse, Wisconsin only		stance to northern/southern ant lery mildew	hracnose &	
ALSIKE CLOVER						
RADIUM XL	manage	nds heavy grazing pressure, but mer ement for success (see "What Forage nals" at lacrosseseed.com)		ant to poorly drained soils ves in poor pH soils		
INTERMEDIATE	WHITE CLOVE	8				
CRUSADE		ed winter growth ed disease package = improved pers		ded grazing potential during colo	der months	
LADINO CLOVE	8					
ORION XL	protein • Good re	rhite clover offering increased quality digestibility egrowth following grazing es fall usage better than red clover	• Supe	to establish erior winter hardiness ates low pH soils		
BIRDSFOOT TRE	FOIL					
LOTUS XL		t of poorly drained, low pH soils sease resistance		recovery after cutting ght growth habit		
RED CLOVER		ALSIKE CLOVER		INTERMEDIATE WHITE CLOV	ER	
ESTABLISHMENT	FAST	ESTABLISHMENT	FAST	ESTABLISHMENT	FAST	
PERSISTENCE	LOW	PERSISTENCE	MED	PERSISTENCE	MED	
DROUGHT TOLERANCE	MED LOW	DROUGHT TOLERANCE	LOW	DROUGHT TOLERANCE	MED LOW	
WINTER HARDINESS	MED HIGH	WINTER HARDINESS	HIGH	WINTER HARDINESS	MED HIGH	
PALATABILITY	MED	PALATABILITY	HIGH	PALATABILITY	MED HIGH	
YIELD POTENTIAL	HIGH	YIELD POTENTIAL	HIGH	YIELD POTENTIAL	HIGH	
GRAZING TOLERANCE	MED	GRAZING TOLERANCE	HIGH	GRAZING TOLERANCE	MED	
PLANTING TIMES		PLANTING TIMES		PLANTING TIMES		
SPRING PLANTING	FEB - MAY	SPRING PLANTING	MAR - MAY	SPRING PLANTING	MAR - MAY	
FALL PLANTING	AUG - OCT	FALL PLANTING	AUG - OCT	FALL PLANTING	AUG - OCT	
LIFE CYCLE	PERENNIAL	LIFE CYCLE	PERENNIAL	LIFE CYCLE	PERENNIAL	
SEEDING RATE (LBS/ACRI	Ξ)	SEEDING RATE (LBS/ACRE)		SEEDING RATE (LBS/ACRE)		
ALONE	8 - 12	ALONE	6 - 8	ALONE	4 - 6	
MIXES	4 - 8	MIXES	2 - 4	MIXES	2 - 4	
HARVEST MANAGEMENT						
Harvest at 1/4 - 1/2 blood of growth after each harve						

VARIETY	APPROX. Cost/lb	LBS PLANTED/ACRE (OVERSEEDING)	SEED Cost	3-YEAR TONNAGE Estimation*	YIELD VALUE†	N FIXATION & VALUE‡	TOTAL VALUE	NET RETURN/ACRE
FF 9615 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
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 **Medium Red Clover only has 2 years of production in a 3-year period [†] Based on \$145/ton [‡] Based on Commercial Nitrogen @ \$.48/LB								

ICON KEY



Our farm switched to Forage First last year and we couldn't be happier."

Ben A., North Central Nebraska

//

ONLINE RESOURCES

Looking for products not listed here? Visit lacrosseseed.com for additional options including balansa clover, berseem clover and more.

LADINO CLOVER

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

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

SEEDING RATE (LBS/ACRE)	
ALONE	4 - 6
MIXES	2 - 4

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)

100/20	ALONE	8 - 10
MIXES	MIXES	4 - 5



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 Widely adapted for forage production in Upper Midwest through Transition Zone where it overwinters)
 - Heavy dry matter producer with outstanding quality
- 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	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 pasturesHigh yielding & top feed quality
GRASSHANCER 200	۲	 Blend of diploid & tetraploid Italian annual ryegrass Seeded in spring to boost season production 	 Excellent establishment & improved persistence Rapid regrowth ability for green chop or silage
MAX 4N	۲	 Improved disease resistance Tetraploid variety with high quality & digestibility Top yield performer: 108% of checks 	High vernalization requirement for no heading in seeding year

BROMEGRASS

9

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	XL 🛠	 Vigorous, long-lived sod-forming perennial grass Excellent drought resistance Improved leaf disease/seedling blight resistance 	 VERY versatile, suited to grazing & haying Well-suited alongside alfalfa & in mixed stands
FLEET Meadow Bromegrass		High yields & rapid regrowthExcellent season-long forage quality	Suitable for hay or pasture

ANNUAL RYEGRASS		HARVEST MANAGEMENT	BROMEGRASS	SMOOTH	MEADOW	HARVEST MANAGEMENT
ESTABLISHMENT	FAST	Mechanical harvest should	ESTABLISHMENT	SLOW	SLOW	Bromegrass is tolerant of
PERSISTENCE	LOW	be made at boot to early heading stage. Graze during	PERSISTENCE	HIGH	HIGH	grazing in spring before the growing point emerges
DROUGHT TOLERANCE	MED	vegetative stage; removal	DROUGHT TOLERANCE	MED	MED	from below the ground;
WINTER HARDINESS	MED	during stem elongation will	WINTER HARDINESS	MED	MED	after jointing, frequent
PALATABILITY	HIGH	slow production until new tiller buds are available for	PALATABILITY	HIGH	HIGH	harvest can destroy stands. Mechanical harvest at boot
YIELD POTENTIAL	HIGH	regrowth.	YIELD POTENTIAL	HIGH	HIGH	to early bloom stage.
GRAZING TOLERANCE	HIGH	0	GRAZING TOLERANCE	HIGH	MED	, ,
PLANTING TIMES			PLANTING TIMES			
SPRING PLANTING	MAR - MAY		SPRING PLANTING	Ν	MAR - MAY	
FALL PLANTING	AUG - SEP		FALL PLANTING		AUG - SEP	
LIFE CYCLE	ANNUAL		LIFE CYCLE	F	PERENNIAL	
SEEDING RATE (LBS/ACR	E)		SEEDING RATE (LBS/ACR	E)		
ALONE	20 - 40		ALONE		15 - 20	
MIXES	5 - 10		MIXES		5 - 10	ICON KEY
EMERGENCE (DAYS)	5 - 14		EMERGENCE (DAYS)		14 - 21	ELITE VARIETY
ROTATIONAL GRAZING (IN)		ROTATIONAL GRAZING (IN)		<u> </u>
BEGIN	8 - 12		BEGIN		10 - 12	XL BRAND
STOP	3 - 6		STOP		4 - 6	CROSSECOAT™ TECHNOLOCY
AVERAGE DAYS REST	25 - 30		AVERAGE DAYS REST		20 - 30	TECHNOLOGY

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	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 BL	UEGRAS	S			
BALIN	۲	Good disease resistanceSuitable in mixes for intensive & extensive use	 Establishes fast with high yields Persistence & high yields in permanent pastures 		
ORCHARDGR	ASS				

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.

HAYMATE XL	XI 🎸	Medium-late maturity blendGreat companion for alfalfa	Improved disease resistanceMaturity allows for more flexibility with first harvest in spring
ECHELON	 • Extremely late maturing, maintains forage quality longe between harvests • Superior leaf disease resistance • Increased palatability & stand persistence 		 Perfect companion for alfalfa or clover mixes Well adapted, suited for hay, silage or grazing Excellent persistence & vigor

FESTULOLIUM	
ESTABLISHMENT	FAST
PERSISTENCE	MED
DROUGHT TOLERANCE	MED
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	HIGH
GRAZING TOLERANCE	HIGH
PLANTING TIMES	
SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAI
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 gr stockpiling. Harvest for hay or hayla	

stockpiling. Harvest for hay or haylage at boot to early heading stage.

KENTUCKY BLUEGRASS			0		
ESTABLISHMENT	SLOW	- [Ε		
PERSISTENCE	HIGH		Ρ		
DROUGHT TOLERANCE	MED		D		
WINTER HARDINESS	HIGH		۷		
PALATABILITY	HIGH		Ρ		
YIELD POTENTIAL	LOW		Y		
GRAZING TOLERANCE	HIGH		G		
PLANTING TIMES			P		
SPRING PLANTING	MAR - MAY		S		
FALL PLANTING	AUG - SEP		F		
LIFE CYCLE	PERENNIAL		L		
SEEDING RATE (LBS/ACRE)			S		
ALONE	10 - 15		A		
MIXES	3 - 10		N		
EMERGENCE (DAYS)	14 - 28		E		
ROTATIONAL GRAZING (IN)			R		
BEGIN	4 - 6	- [В		
STOP 2-3					
AVERAGE DAYS REST	30 - 40		A		
HARVEST MANAGEMENT			ŀ		
High stocking rates in spring take ac			Η		
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	
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

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 establishment Excellent high quality forage in spring & fall 	Extremely palatable		
BISON 2		 Intermediate, shorter-lived perennial ryegrass Great for overseeding or short-term pastures Increases dry matter yield when interseeded 	 Very high leaf to stem ratio Tolerates intensive grazing Very high yield with extremely fast recovery 		
KENTAUR	٢	 Excellent resistance to leaf spot & crown rust High sugar content Excellent forage quality & consistency 	 Early spring growth with high dry matter yield Good recovery after cutting Cold & heat tolerant 		
REED CANARY	GRASS				
DEFIANT XL	XU 🕉	 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 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.

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	FEB - MAY			
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			
STOP	2 - 4			
AVERAGE DAYS REST	15 - 30			
HARVEST MANAGEMENT				
Once established, ryegrass can be grazed (even				

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.

REED CANARYGRASS

REED CANARIGRASS					
ESTABLISHMENT	SLOW				
PERSISTENCE	HIGH				
DROUGHT TOLERANCE	HIGH				
WINTER HARDINESS	HIGH				
PALATABILITY	MED				
YIELD POTENTIAL	HIGH				
GRAZING TOLERANCE	HIGH				
PLANTING TIMES					
SPRING PLANTING	MAR - MAY				
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					

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.

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

negative enects cattle see	when cor	isuming the i	mecteu plants					
STARGRAZER XL Tall Fescue	XL			Aidwest, Mid-Atlantic & Northeast cures or hay production	 Slightly earlier maturing than KY31 Good yielder with excellent persistence 			
TOWER Tall Fescue	٢	extren • Late n	 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	۲			stablish & very aggressive• High yielding first cuts with excellent regold & wet areas• Very good winter hardiness & persistend				
ΤΙΜΟΤΗΥ								
harvest schedules. Timoth	ny's shallo	w root syster	n can struggle		ents. Increasing seeding	re closely when paired with alfalfa's rates can compensate for timothy's r hardiness.		
TOP TIM XL	XL		maturity blend ent with clover	or alfalfa for hay or pasture	 1 - 2 weeks earlier environments 	r to boot stage than Climax in most		
ERECTA	۲	Late nVery w	naturing vinter-hardy		Known for its pala	tability & digestibility		
RICHMOND	۲		maturing ent early spring	g vigor	 Very good winter h 	nardiness		
FESCUE		TALL	MEADOW	ТІМОТНҮ				
ESTABLISHMENT		MED	MED	ESTABLISHMENT	SLOW	Wa shaara ta call		
PERSISTENCE		MED HIGH	MED HIGH	PERSISTENCE	MED	We choose to sell premium brands like		
DROUGHT TOLERANCE		HIGH	MED LOW	DROUGHT TOLERANCE	MED	Forage First because		
WINTER HARDINESS		MED	HIGH	WINTER HARDINESS	HIGH	it helps differentiate		
PALATABILITY		MED	HIGH	PALATABILITY	HIGH	our business in the		
YIELD POTENTIAL		HIGH	LOW	YIELD POTENTIAL	MED	marketplace. The way		
GRAZING TOLERANCE		HIGH	HIGH	GRAZING TOLERANCE	IOW	marketplace. The way		

		•
SPRING PLANTING	MAR - MAY	APR - MAY
FALL PLANTING		AUG - SEP
LIFE CYCLE		PERENNIAL
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

PLANTING TIMES

15 - 25 AVERAGE DAYS REST 25 - 35 HARVEST MANAGEMENT

Harvest at boot stage in spring; pure stands work well when stockpiled in fall.

ESTABLISHMENT	SLOW
PERSISTENCE	MED
DROUGHT TOLERANCE	MED
WINTER HARDINESS	HIGH
PALATABILITY	HIGH
YIELD POTENTIAL	MED
GRAZING TOLERANCE	LOW
PLANTING TIMES	
SPRING PLANTING	MAR - MAY
FALL PLANTING	AUG - SEP
LIFE CYCLE	PERENNIAL
SEEDING RATE (LBS/ACRE)	
ALONE	8 - 15
MIXES	2 - 6
EMERGENCE (DAYS)	14 - 21
HARVEST MANAGEMENT	
Because of timothy's lack of basal la support regrowth, as well as its limit storage, frequent cutting or grazing weakens stands. Harvest in spring a stage.	ed energy greatly

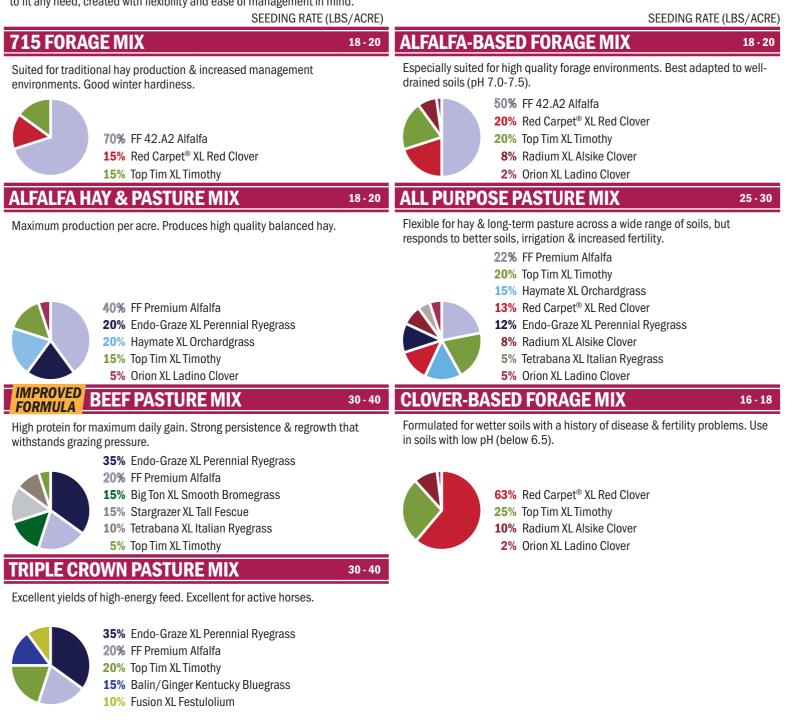
to compete with big box companies is to offer premium varieties and brands that you can't find in many of those mainstream stores."

> Jeff G., Northeastern Missouri



Forage First[®] Grass & Legume Mixes

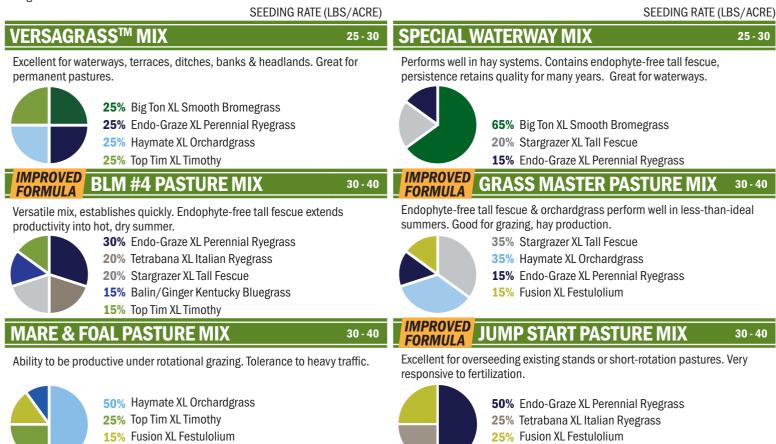
We provide a diverse set of mixes to produce high quality forage for your unique operation. Our versatile pasture mix portfolio offers a variety of proven products to fit any need, created with flexibility and ease of management in mind.





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.



Silobuster Mixes

SILOBUSTER PEA & BARLEY MIX*

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

10% Balin/Ginger Kentucky Bluegrass



60% LC6040 Forage Peas40% Top Ton Spring Barley

SILOBUSTER PEA & TRITICALE MIX*

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

100 - 150 SILOBUSTER PEA & OAT MIX*

*100-120 Nurse

100 - 150

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



100 - 150

60% LC6040 Forage Peas

40% Haywire Forage Oats

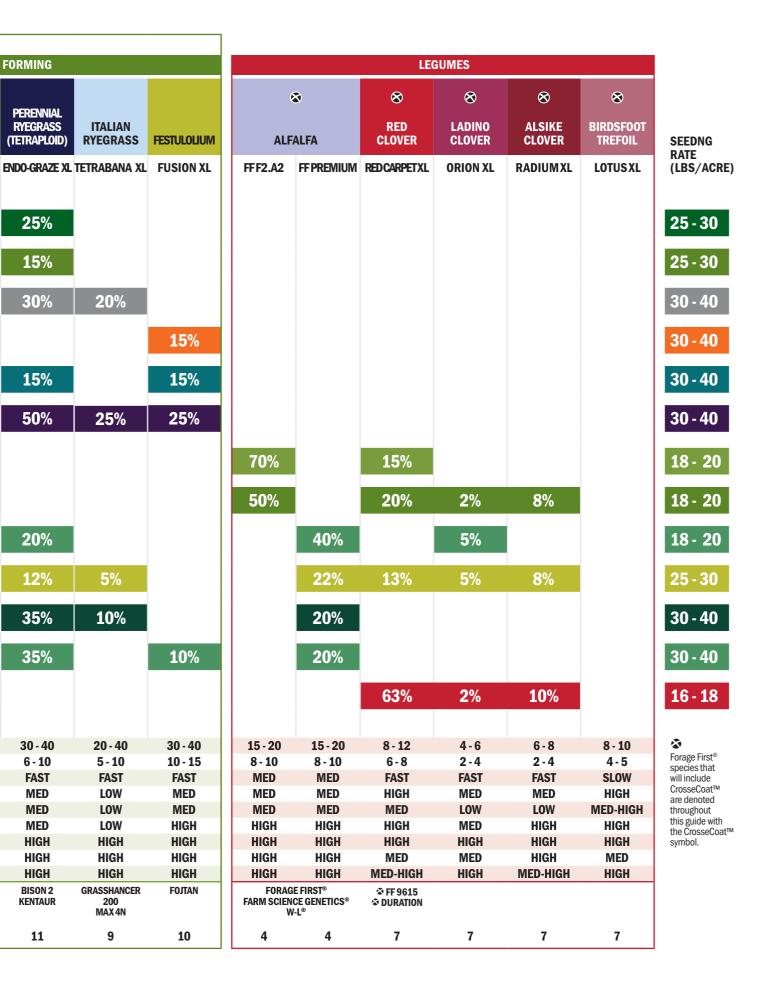
Silobuster Mixes: Harvest should be based on maturity of small grain:

- Late boot stage for lactating dairy cows
- Soft dough stage for heifers, dry cows and beef cattle



60% LC6040 Forage Peas 40% Elevator Spring Triticale

						COOL	SEASON GRAS	SES		
				SOD FORMING		NON-SOD				
			8		REED		\$			
			SMOOTH BROME	KENTUCKY BLUEGRASS	CANARY GRASS	TALL FESCUE	ORCHARD	тімотну		
	FOR/	AGE FIRST°	BIG TON XL	Balin/Ginger	DEFIANT XL	STARGRAZER XL	HAYMATE XL	TOP TIM XL		
	8	VERSAGRASS™	25%				25%	25%		
ŝ	8	SPECIAL WATERWAY	65%			20%				
S MIXE	IMPROVED FORMULA	BLM #4		15%		20%		15%		
ALL GRASS MIXES	8	MARE & FOAL		10%			50%	25%		
AI	⊗ ^{IMPROVED} FORMULA	GRASS MASTER				35%	35%			
	IMPROVED FORMULA	JUMP START								
	8	715						15%		
ES	8	ALFALFA-BASED						20%		
AE MIX	⊗ ALF	ALFA HAY& PASTURE					20%	15%		
+ LEGUME MIXES	8	ALL PURPOSE					15%	20%		
GRASS +		BEEF PASTURE	15%			15%		5%		
5	8	TRIPLE CROWN		15%				20%		
	8	CLOVER-BASED						25%		
		RATE FOR PURE STAND	15-20	10 - 15	5 - 10	25 - 30	15 - 25	12 - 15		
CHARACTERISTICS		RATE IN MIX	5 - 10	4 - 10	3 - 5	6 - 12	3 - 10	2 - 6		
IST		ESTABLISHMENT	SLOW	SLOW	MED	MED	MED	SLOW		
ER		PERSISTENCE	HIGH	HIGH	HIGH	HIGH	HIGH	MED		
CT		DROUGHT TOLERANCE	MED	MED	HIGH	HIGH	MED	LOW HIGH		
RA		WINTER HARDINESS PALATABILITY	HIGH	HIGH	HIGH MED	MED MED	HIGH	HIGH		
HA		YIELD POTENTIAL	HIGH	MED	HIGH	HIGH	HIGH	MED		
S		GRAZING TOLERANCE	HIGH	HIGH	HIGH	HIGH	HIGH	MED		
		ADDITIONAL ELITE VARIETIES & OTHER FORAGE FIRST [®] PRODUCTS				TOWER	ECHELON	ERECTA RICHMOND		
		PAGE #	9	10	11	12	10	12		



			SUI	MM NUA		N	IATURI	ſY	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
		QUI	CKDRY BMR	BMR 6		IV	IED LAI	E	14,000 - 15,000	20 - 25	35 - 50	4	4	3	2	3
		DENSE TONNA	GE BMR BD	BMR 6	BD	N	IED LAT	E	14,000 - 15,000	15 - 25	25 - 35	4	4	1	4	2
	SORGHUM X SUDANGRASS	EVERGRO	W BMR PPS	BMR 6	() PPS		LATE		14,000 - 15,000	20 - 25	35 - 50	3	5	2	3	2
CIES		GREE	NSUGAR TR				MED		16,000 - 20,000	20 - 25	50 - 60	3	3	2	2	2
JT SPE		GREEM	NSUGAR MS		S MS	N	IED LAI	ΓE	16,000 - 20,000	20 - 25	50 - 60	3	4	1	2	2
MULTI-CUT SPECIES	SUDANGRASS		BALEMORE			E/	ARLY M	ED	35,000 - 40,000	15 - 25	20 - 35	3	3	1	2	4
	PEARL	HERCUL	ES BMR BD	BMR 6	BD		MED		50,000 - 60,000	10 - 12	10 - 12	5	5	5	4	4
	MILLET		PERFORM				MED		50,000 - 60,000	10 - 12	10 - 12	5	4	5	4	4
	TEFF GRASS	R	EPRIEVE XL		\$		NA		650,000	8 - 10	8 - 10	4	3	5	NA	4
						HAR (SO DO	'S TO VEST DFT UGH NGE)	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
			93			80	- 90	6 - 7	14,000 - 16,000	5 - 7	NR	1	4	3	3	4
ECIES	FORAGE SORGHUM		94 MS		S MS	N	IS	6 - 8	17,000 - 19,000	4 - 6	10 - 15	3	4	2	3	4
-CUT SPECIES			95 BMR	BMR 12	DWARF	85	- 95	5 - 7	16,000 - 18,000	5 - 7	NR	2	4	3	3	5
SINGLE-				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
	GRAIN		79 B	OPEN	BRONZE/RED	48 - 51	80 - 85	36 - 42	13,000	25,000 - 40,000	60,000 - 75,000	5	4	4	5	2
	SORGHUM		94 R	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		RIMARY DRAGE USE				PLAN1 Date	ING	SEEDIN		- ADD 30%)		AYS TO Rain i) MATUF	ЯТУ	
			y or silage				May - J	uly	20 - 25		ABB CONJ) - 100			
	German Millet		y hay in 55 - 60 d	ays			May - J	uly	20 - 25			75	5 - 90			
	German Millet Siberian Millet		y hay in 40 - 50 d	ays			May - J	uly	20 - 25			60) - 80			
	White Wonder Millet		y hay in 50 - 55 d	ays			May - J	uly	20			70) - 90			
	White Proso Millet NR					May - J	uly	20 - 25			70) - 90				
	Japanese I	Millet Gra	azing; dry hay in 4	l5 - 50 da	iys		April - J	uly	15 - 20			60) - 70			
	S Japanese I Pearl Mille		azing in 35 - 40 d ys; can ensile or g			0	May - J	uly	12 - 20			60) - 70			
17	Brown Top Millet Thin stems ma		in stems make dr				May - J	uly	20 - 25			60)			

BD = Brachytic Dwarf, BMR = Brown Mid-Rib, MS = Male Sterile, PPS = Photo Period Sensitive

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

regrowth

regrowth

Leave 8 - 10" for quickest

Leave 6 - 8" for adequate

3 - 6'

2 - 4'

(depending on variety)

For more information on summer annuals, visit summer-select.com



= P00F	R, 5 = EX	XCELL	ENT			
			bit with wide, long leaves		 Increased sugar content = in Fast establishment & regrow 	nproved digestibility /th = more productivity
 Management friendly hybrid with greater harvest flexibility Dwarf hybrid = improved standability & higher leaf:stem ratio 			xibility stem ratio	 Suitable for grazing environme Increased sugar content = imp 	ents or 1-cut silage systems proved digestibility	
Widely PPS hy	adapteo brids rer	d with i nain ve	mproved disease resistance getative until mid-Sept (day le	ength < 12h, 20m)	 PPS allows for wider window Build tonnage without sacrifi 	
Broad a	adaptati	on in a	traditional, non-BMR packag	e	High yielding; increase popula	tion for improved quality
Higher Increas	levels o sed dise	f suga ease re	r/protein in vegetative portionsistance	on of plant	 MS = no anthers, thus no po Improved standability 	llen for self-fertilization
				tion is planned	Strong emergence & quick re	egrowth
					 Enhanced palatability, diges No prussic acid or sugarcane 	
 Versatile hybrid suitable for silage, grazing & dry hay Quicker regrowth compared to sorghum x sudangrass 				 No prussic acid or sugarcane Shorter stature = improved status 		
					Well adapted to dry climates	3
EAF DISEASE RESISTANCE			 White grain color High grain:stover ratio 		 Early maturing hybrid with ex Anthracnose resistant 	cellent standability
3					Male Sterile = increased sug	ar accumulation
5					 Excellent leaf disease resista Widely adapted with exceller 	
FUSARIUM TOLERANCE	MAIZE DWARF MOSAIC TOLERANCE	⇔ DOWNY MILDEW TOLERANCE	 Widely adapted - can g Ultra early hybrid 	o anywhere!	• Exceptional drought tolerand	ce
4	5	5		nat yields	Excellent sugarcane aphid to disease resistance	olerance &
		URE	REGROWTH AFTER CUTTING/HARVEST	ATTRIBUTES		*Refer to seeds per lb on seed tag
- 4'			Little to no regrowth			Pasture only before heads form (not ideal)
- 4'			Little regrowth			 Mid-late maturing Shallow rooted - not as drought tolerant
- 2½'			Little to no regrowth			Shorter statureBest suited in Northern Plains
- 4'			Poor at best		ay & grain	Heavy stem & taller than most foxtail types
			Poor at best	Usually grown for		Not tolerant of drought - keep off sandy soils
- 4'			Leave 6 - 8" for adequate regrowth			Tolerant of waterlogged soils & floodingAlso used for erosion control
	Widely Tradition Manag Dwarf I Widely PPS hy Broad a Higher Increase Can als Versati Dwarf J Versati Quickee Great r Superi Superi 3 3 5 1 1 1 1 1 1 1 1 1 1	Widely adapter Traditional gro Management fr Dwarf hybrid = Widely adapted PPS hybrids rer Broad adaptation Higher levels of Increased disc Best summer a Can also be us Versatile hybri Quicker regrow Great rotations Superior qualit Superior quali	Widely adapted Traditional growth has Management friendly Dwarf hybrid = improv Widely adapted with in PPS hybrids remain verse Broad adaptation in a Higher levels of suga ncreased disease re Best summer annual Can also be used for Versatile hybrid suita Dwarf gene increase Versatile hybrid suita Quicker regrowth correstive Great rotational crop Superior quality - ide a a a a a a a b a a a a a a a a a a a a a a a a b a a b b b b b b b a a a a a b b b b b b b b b b b b a a b b b b c a b b <th>Traditional growth habit with wide, long leaves Management friendly hybrid with greater harvest fle Dwarf hybrid = improved standability & higher leafs Widely adapted with improved disease resistance PPS hybrids remain vegetative until mid-Sept (day le Broad adaptation in a traditional, non-BMR packag Higher levels of sugar/protein in vegetative portion Increased disease resistance Best summer annual option when dry hay produc Can also be used for grazing or green chop Versatile hybrid suitable for silage, grazing & dry Dwarf gene increases leaf:stem ratio & improves Versatile hybrid suitable for silage, grazing & dry Quicker regrowth compared to sorghum x sudarg Great rotational crop between alfalfa & perennial Superior quality - ideal for horses & other livestor Soversatile hybrid suitable for silage, grazing dwarf BI e High grain:stover ratio a • White grain color • High grain yield for mat * Good disease resistance • Early maturing dwarf BI e High grain yield for mat * Soversatile hybrid * Widely adapted - can g • Ultra early hybrid * Widely adapted hybrid to * Widely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * 2½ EEGR</th> <th>Widely adapted Traditional growth habit with wide, long leaves Management friendly hybrid with greater harvest flexibility Dwarf hybrid = improved standability & higher leaf:stem ratio Widely adapted with improved disease resistance PPS hybrids remain vegetative until mid-Sept (day length < 12h, 20m) Broad adaptation in a traditional, non-BMR package Higher levels of sugar/protein in vegetative portion of plant Increased disease resistance Best summer annual option when dry hay production is planned Can also be used for grazing or green chop Versatile hybrid suitable for silage, grazing & dry hay Dwarf gene increases leaf:stem ratio & improves standability Versatile hybrid suitable for silage, grazing & dry hay Quicker regrowth compared to sorghum x sudangrass Great rotational crop between alfalfa & perennial stands Superior quality - ideal for horses & other livestock Starge in creases • White grain color • High grain:stover ratio 3 • Good disease resistance • Excellent regrowth for a forage sorghum Starge in grazing in yield for maturity • Widely adapted - can go anywhere! • Ultra early hybrid MINNER IN STATURE REGROWTH AFTER CUTING/HARVEST ATRIBUTES 1-4' Little to no regrowth · Starge in maturity • Verst fast growing · Used primariy for · Starge in maturing · Used primariy for · Used primariy for · Used primariy for · Starge in maturing · Late mat</th> <th>Widely adapted - Increased sugar content = in Traditional growth habit with wide, long leaves - Rast establishment & regrowth Management friendly hybrid with greater harvest flexibility - Suitable for grazing environme Widely adapted with improved disease resistance - Suitable for grazing environme PPS hybrids remain vegetative until mid-Sept (day length < 12h, 20m) - PPS allows for wider window Broad adaptation in a traditional, non-BMR package - High yielding: increased sigar content = im Increased disease resistance - High yielding: increase popula Best summer annual option when dry hay production is planned - Strong emergence & quick in Can also be used for grazing or green chop - Enhanced palatability Versatile hybrid suitable for silage, grazing & dry hay - Enhanced palatability Prest outprind suitable for silage, grazing & dry hay - Enhanced palatability Quicker regrowth compared to sorghum x sudangrass - Well adapted to dry climates Great rotational crop between alfalfa & perennial stands - Well adapted to dry climates Superior quality - ideal for horses & other livestock - Early maturing hybrid with exceeder Superior quality - ideal for horses & other livestock - Early maturing hybrid - Excellent leaf disease resistance Suprest strue</th>	Traditional growth habit with wide, long leaves Management friendly hybrid with greater harvest fle Dwarf hybrid = improved standability & higher leafs Widely adapted with improved disease resistance PPS hybrids remain vegetative until mid-Sept (day le Broad adaptation in a traditional, non-BMR packag Higher levels of sugar/protein in vegetative portion Increased disease resistance Best summer annual option when dry hay produc Can also be used for grazing or green chop Versatile hybrid suitable for silage, grazing & dry Dwarf gene increases leaf:stem ratio & improves Versatile hybrid suitable for silage, grazing & dry Quicker regrowth compared to sorghum x sudarg Great rotational crop between alfalfa & perennial Superior quality - ideal for horses & other livestor Soversatile hybrid suitable for silage, grazing dwarf BI e High grain:stover ratio a • White grain color • High grain yield for mat * Good disease resistance • Early maturing dwarf BI e High grain yield for mat * Soversatile hybrid * Widely adapted - can g • Ultra early hybrid * Widely adapted hybrid to * Widely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * Widely adapted hybrid to * Midely adapted hybrid to * Medium maturity * 2½ EEGR	Widely adapted Traditional growth habit with wide, long leaves Management friendly hybrid with greater harvest flexibility Dwarf hybrid = improved standability & higher leaf:stem ratio Widely adapted with improved disease resistance PPS hybrids remain vegetative until mid-Sept (day length < 12h, 20m) Broad adaptation in a traditional, non-BMR package Higher levels of sugar/protein in vegetative portion of plant Increased disease resistance Best summer annual option when dry hay production is planned Can also be used for grazing or green chop Versatile hybrid suitable for silage, grazing & dry hay Dwarf gene increases leaf:stem ratio & improves standability Versatile hybrid suitable for silage, grazing & dry hay Quicker regrowth compared to sorghum x sudangrass Great rotational crop between alfalfa & perennial stands Superior quality - ideal for horses & other livestock Starge in creases • White grain color • High grain:stover ratio 3 • Good disease resistance • Excellent regrowth for a forage sorghum Starge in grazing in yield for maturity • Widely adapted - can go anywhere! 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• Very resilient - handles a variety of soil types

· Seed shatters easily - reseed potential very high

• Fast growing for seed mostly – wildlife

No prussic acid concerns

• More drought tolerant than japanese / foxtail millets

• Tolerant of acidic soils & low fertility

Tips For Managing Summer Annuals & Other Cover Crops For Forage

When the opportunity exists to plant early, warm season annuals provide large amounts of biomass while improving soil tilth and absorbing excess nutrients left behind from cash crops. Summer annuals provide quality forage suitable for all classes of ruminants (usually during periods where traditional perennial crops are less effective). Although sometimes referred to as "emergency forage", summer annuals can be part of a planned cover crop program where the dual benefit of forage is the goal.

PRUSSIC ACID poisoning can occur when feeding forage sorghums after periods of drought or other stress, including frost. Toxic levels dissipate usually after 2 - 3 weeks and will further decrease when ensiled. Prussic acid is most concentrated in new growth, so sorghum forages should not be grazed until they are at least 18" tall. Storing hay or silage for at least 30 days generally dissipates the concern.

BRASSICA CROPS can cause animal health disorders if not grazed properly. Introduce grazing animals to brassica pastures slowly (usually over 3 - 5 days). With extremely high forage values, brassicas can cause problems if hungry animals are turned out into predominate brassica pastures. Even though traditional recommendations allow for 2/3, we recommend keeping brassicas to under 1/3 of the grazing animal's diet - always supplement brassicas with dry hay or other grasses (higher in fiber).

BLOAT can be an issue with most legume species. Reduce bloat by:

- 1. Utilizing grasses alongside the legumes
- 2. Pre-fill livestock with coarse hay prior to turning onto pasture, ensuring animals are not turned out to fresh pasture when hungry
- 3. Do not start grazing when the pastures are wet from dew or rain

GRASS TETANY can occur when grazing lush cereal grain crops in the spring or fall. Tetany risk can be lessened by adding legumes (which offset low magnesium levels that induce tetany) and by keeping livestock out of fields recently fertilized or manured.

NITRATE TOXICITY is common when fertility or manure applications are followed by a period of drought or stress. Cut plants do not lessen in their nitrate levels as they cure. If high levels are suspected, forage should be tested for a period of a few weeks until levels subside. Though often linked to summer annual grasses, increased nitrate levels can show up in most cover crops and forages.

- 1. Nitrates are concentrated more in the lower stalk raising cutting height can reduce the risk
- 2. When a stressful drought precedes a moisture event, it is recommended to delay harvest by 1 2 weeks
- 3. Consider split applications of nitrogen (especially useful on summer annuals) to decrease nitrate accumulations

	REPORTED METHOD (Dry Matter Basis)			er Basis)	NITRATE LEVELS IN FORAGE
	Nitrate Nitrogen (NO ₃ -N) Nitrate (NO ₃)		e (NO ₃)	REFERENCES: Univ. of Missouri, Univ. of Wisconsin, Univ. of Tennessee, North Carolina State Univ., South Dakota State Univ.	
	% (lons)	ppm	% (lons)	ppm	COMMENTS
all of	<0.10	<1,000	<0.44	<4,400	Generally safe to feed. University of Missouri Extension states problems can already commence at 550 ppm NO3-N (2,500 ppm NO3), especially if feeding along with non-protein N sources.
	0.10-0.15	1,000 - 1,500	0.44-0.66	4,400 - 6,600	Safe for non-pregnant animals. Limit to 50% or less (DM basis) for pregnant animals. Some abortions possible at this level.
	0.15-0.20	1,500 - 2,000	0.66-0.88	6,600 - 8,800	Limit use to 50% total ration (DM basis) for all animals. Missouri Extension recommends limiting to only 25% of total ration between 1,100 - 3,400 ppm NO3-N (5,000 - 15,000 ppm NO3).
	0.20-0.35	2,000 - 3,500	0.88 - 1.54	8,800 - 15,400	Limit use to 35% or less of total ration (DM basis) for non-pregnant animals. DO NOT FEED to pregnant animals.
	0.35-0.40	3,500 - 4,000	1.54 - 1.76	15,400 - 17,600	Limit use to 25% or less of total ration (DM basis) for non-pregnant animals. DO NOT FEED to pregnant animals. Missouri Extension says anything over 3,400 ppm NO3-N (15,000 ppm NO3) should not be fed but if it must be fed, limit to less than 15% of total ration.
TOXIC	>0.40	>4,000	>1.76	17,600	Potentially toxic. D0 N0T FEED.

TOXIC

THIS IS ONLY A GUIDE. La Crosse Seed makes no claims and makes no guarantees/warranties regarding performance and function of feedstuffs or their detrimental effects. Test results will vary by testing lab and by method of sample collection, forage management, climate and other environmental factors.

Managing Small Grains For Forage

With a greater need for quality feed sources, cereal grain options are becoming increasingly popular as forage supplements to existing perennial hay and summer annual acres. Many forage benefits are consistent across all these cereal grain options but differences do exist in quality and tonnage based on proper management.

WINTER TRITICALE

Triticale is a cross between wheat and rye. This makes for a crop with higher yields than wheat, but lower quality. Triticale is best suited for grazing pasture. Because of its large stems, hay wilting and silage packing can be difficult.

BEST USE: Fall & Spring Pasture; Silage & Hay (boot to dough stage)

WINTER RYE

Rye offers the advantage of being the easiest cereal grain to establish in poor soils and having the greatest cold tolerance. Rye offers the greatest production for hay or pasture ground because of its quick growth both in the fall and spring.

BEST USE: Fall, Winter & Spring Pasture

SPRING OATS

Oats can be planted in the fall, as long as it's early enough to justify 60 - 90 day production.

BEST USE: Silage (milk to dough stage); Hay (boot to heading stage)

WINTER WHEAT

Wheat has good potential for forage and is usually higher in quality than rye, triticale and oats but not barley. However, wheat usually produces more dry matter than barley.

BEST USE: Fall & Spring Pasture; Silage (boot to dough stage); Hay (boot to milk stage)

WINTER BARLEY

Winter barley is the most susceptible to winterkill of the cereal grains. Consideration should be made when grazing late into the fall. Barley's value as a silage crop is the most comparable to whole-plant corn (90-100%).

BEST USE: Fall Pasture; Silage & Hay (boot to dough stage)

HAY PRODUCTION

Hay yields often average between 2 and 4 tons/acre. Moisture content should be between 15 - 20% moisture. Hay quality is more maturity-dependent at harvest than is silage.

The most efficient time to harvest small grain cereals for hay is at early-milk stage. This allows for the greatest compromise between forage yield and quality (quality would be greatest at the late-boot stage). To help speed up drying, a crimper is recommended when harvesting in the late-boot stage.

SILAGE PRODUCTION

Wheat, barley, oat and triticale silage yields are similar, 4 - 7 tons/acre of 35% dry matter forage in the boot stage and closer to 6 - 10 tons/acre when harvested in the late-boot stage. Small grains should be ensiled at between 62 – 68% moisture. Chop length should be set finer than when harvesting corn or forage sorghum.

(Kansas State University)



Soil First[®] Mixes

Cover crops are being used across the country for many reasons. Besides soil and water quality benefits, integrating summer, fall and winter cover crops can supply much needed forage in the form of hay, silage and pasture through fall and spring.



SOIL FIRST[®] 101 COVER STARTER



Simple and practical, a low-risk option for both early adopters and growers looking for more flexibility.

- A simple mix suited for multiple regions & marginal soils · Winter-hardy rye will sequester excess nitrogen



91% Guardian® Winter Rye	SEEDING (LI	BS/ACRE)
9% Tillage Radish®	Drill:	30 - 35
	Broadcast:	35 - 40
	Aerial:	30 - 40

Forage:

Drill:

Aerial:

Forage:

Broadcast:



72% Guardian[®] Wint 20% Crimson Clover 8% Tillage Radish®

SOIL FIRST[®] 140 MULTI-PURPOSE

SOIL FIRST[®] 102 COVER STARTER +

and biomass potential.

• Perfect before both corn or soybeans

• Ideal for Southern Corn Belt & beyond

ter Rye	SEEDING (LE	BS/ACRE)
	Drill:	30 - 35
1	Broadcast:	35 - 40
	Aerial:	30 - 40
	Forage:	40 - 50

SOIL FIRST[®] 125 N-HANCER



Heavy legume mix intended for adding Nitrogen. · Strong nitrogen fixing mix

· Ideal as fall forage mix

30% Defender Oats

20% Balansa Clover

20% Crimson Clover

5% Tillage Radish®

25% Spring Peas

SOIL FIRST[®] 142 CLASSIC

SOIL FIRST® 160 ROOTING



Formulated with the livestock grazer in mind, providing soil protection & biomass from fall through spring. • Early seeding/late fall silage opportunity

A straightforward & flexible mix for growers looking

Building nitrogen and root mass while improving soil tilth

• Ideal forage for beef/non-lactating dairy

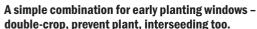


50% Nitrous® Winter Trit
38% Winter Peas
6% Tillage Radish®

SEEDING (LE	55/AURE)
Drill:	35 - 40
Broadcast:	40 - 50
Aerial:	NR
Forage:	40 - 50

SEEDING (LDS (AODE)

SOIL FIRST[®] 150 FIELD FIT



Ideal for acres going to corn or other grass crops

Sensible blend of radish & ryegrass developed for

· Best for breaking up compaction & catching nutrients

maximizing root mass and capturing nutrients.

Plant early to maximize production



Soil First

Soil First

70% Crimson Clover 30% Tillage Radish®

SEEDING (LBS/ACRE) Drill: 12 - 15 Broadcast: 15 - 2020 - 25 Aerial: Forage: 15 - 20

SEEDING (LBS/ACRE)

oil First 500

for very minimal spring management.

Great for sequestering leftover nutrients

• Winterkills in most northern climates



90% Defender Oats 10% Tillage Radish®

SEEDING	(LBS/ACRE)
Drill:	30 - 35

	30-33
Broadcast:	35 - 40
Aerial:	30 - 40
Forage:	40 - 50

SOIL FIRST® 175 ACCUSPREAD



Coated clover and coated ryegrass create uniform spread patterns and consistent germination for broadcast.

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





80% Annual Ryegrass* 12% Crimson Clover* 8% Tillage Radish®

* Coated	
----------	--

SEEDING (LBS/ACRE)

Drill:	20 - 25
Broadcast:	25 - 30
Aerial:	25 - 30
Forage:	25 - 30

88% Annual Ryegrass 12% Tillage Radish®

· Perfect in manure systems

SEEDING (LBS/ACRE) D

Drill:	15 - 20
Broadcast:	20 - 25
Aerial:	20 - 25
Forage:	20 - 25





40 - 50

35 - 40

40 - 50

NR

40 - 50

6% Forage Brassica

Conservation Seed Solutions

CUSTOM SEED MIXING

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

Cover crops are one of many conservation tools on the farm to better protect our soil and water. There are many choices when it comes to conservation and environmental farming practices, and we provide a diverse selection of conservation seed solutions.

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







Native Grasses & Wildflowers

MIXES

- **Color Iowa Wild EcoGrass Short**
- **EcoGrass Tall**
- Flood Plain
- Knee-High Wildflower
- Low-Grow Wildflower
- **Midwest Wildflower**
- **Perennial Wildflower** Pollinator
- **Shady Wildflower**



ONLINE For product & management information, resources visit lacrosseseed.com

							SEEDING INFORMATION											
ANNUAL COVER CROP FORAGE					N	CARBON/ NITROGEN RATIO (C:N)	SEEDING RATE (Drill) LBS/ACRE	SEEDING RATE (MIX) LBS/ACRE	SEEDING RATE (For Forage) LBS/ACRE	SEEDING DEPTH (WITH DRILL)	SEEDS/LB	SEEDING TIME	BULK Density * LBS/FT ³	AERIAL Seeding Rate *	GERMINATION Soil Temperatrure (degrees Fahrenheit)			
	Deiken Dediek	1				Tama Out	2.0	4.2	E 0	1/4"	20 40 000	Aug Con	44	2.0	450			
RD	Daikon Radish Oilseed Radish			V ./		Tops - 9:1 Tops - 9:1	3-8 8-12	1-3 3-8	5-8 8-12	4″ 1⁄4"	30 - 40,000 30 - 40,000	Aug-Sep Aug-Sep	44 44	3-8 6-12	45° 45°			
12L	Turnips (Top)			\checkmark		Tops - 9:1	2-6	2-4	3-8	-74 1/4"	220,000	Aug-Sep Aug-Sep	44	2-6	45°			
MI	Vivant Brassica		~			10:1 - 15:1	4-6	2-3	5-6	1/4"	165,000	July-Sep	44	5-6	45°			
BRASSICA/MUSTARD	Forage Collards			V		15:1 - 25:1	5 - 12	1-4	10 - 12	1/4" - 1/2"	175,000	Mar-Apr; Aug-Oct	44	8 - 12	40°			
ASS	Rapeseed	\checkmark		\checkmark		20:1 - 22:1	4-6	2-4	6-8	1/4" - 1/2"	145,000	Apr-May; Aug-Sep	45	5-8	41º			
BR	Yellow/White Mustard	\checkmark		\checkmark		20:1 - 30:1	6 - 15	2 - 5	0	1/4" - 3/4"	100,000	Apr-May; Aug-Sep	46	10 - 15	40°			
	Crimson Clover	\checkmark		\checkmark		15:1 - 20:1	10 - 15	4 - 8	6 - 15	1/4"	150,000	Feb-Mar; Aug-Sep	52	6 - 15	42°			
	Berseem Clover	\checkmark		\checkmark		15:1 - 20:1	8 - 20	5 - 10	15 - 20	1⁄4"	150,000	Mar-Apr; Aug-Sep	52	6 - 15	40 °			
	Balansa Clover	\checkmark		\checkmark		15:1 - 20:1	3 - 6	1 - 4	3-6	1/4"	500,000	Feb-Mar; Aug-Sep	56	3 - 6	40 °			
6	Winter Hairy Vetch			\checkmark	\checkmark	10:1 - 15:1	15 - 30	10 - 20	30 - 40	1"	16,000	Aug-Sep	52	NR	60°			
LEGUMES	Sunn Hemp		\checkmark	\checkmark		18:1 - 29:1	15	5 - 8	5 - 15	½" - 1 "	15,000	July-Sep	0	NR	65°			
EGU	Austrian Winter Peas			\checkmark	\checkmark	15:1 - 20:1	30 - 80	10 - 30	40 - 60	1"	2,000	Aug-Sep	52	NR	41 °			
-	Peas (Hay)	\checkmark		\checkmark		20:1 - 25:1	75 - 120	10 - 50	75 - 120	1"	3,000	Mar-Apr; Aug-Sep	50	NR	41 °			
	Peas (Silage)	\checkmark		\checkmark		Pea Straw - 29:1	75 - 120	10 - 50	75 - 120	1"	3,000	Mar-Apr; Aug-Sep	o	NR	41 °			
	Peas and Oat Mix	\checkmark	\checkmark	\checkmark	\checkmark	o	75 - 120	0	75 - 120	³⁄4" - 1 "	Varies	Mar-Apr; Aug-Sep	0	NR	41 °			
	Medium Red Clover	\checkmark		\checkmark	\checkmark	12:1 - 16:1	8 - 12	6 - 8	8 - 12	1⁄4"	270,000	Feb-May; Aug-Oct	48	4 - 10	41 °			
	Annual Ryegrass	\checkmark		V	V	Vegetative - 20:1	15 - 30	10 - 15	25 - 35	1⁄4"	215,000	Mar-Apr; Aug-Oct	32	15 - 35	40 °			
	Spring Oats (Hay)	\checkmark		\checkmark		Vegetative - 20:1	30 - 50	20 - 40	80 - 120	³ ⁄4" - 1 "	15 - 18,000	Mar-Apr; Aug-Sep	38	20 - 60	38º			
	Spring Oats (Silage)	\checkmark		 ✓ 		Straw - 80:1	30 - 50	20 - 40	80 - 120	³ ⁄4" - 1"	15 - 18,000	Mar-Apr; Aug-Sep	0	20-60	38°			
	Winter Rye (Hay)			 ✓ ✓ 	 ✓ ✓ 	Vegetative - 20:1	30 - 50	20 - 40	80 - 120	³ ⁄4" - 1"	16 - 18,000	Aug-Oct	50	20-60	34º			
	Winter Rye (Silage)			 ✓ ✓ 	 ✓ ✓ 	Straw - 70:1 Vegetative - 20:1	30 - 50	20 - 40	80 - 120	³ /4" - 1"	16 - 18,000	Aug-Oct	0	20-60	34º 38º			
	Triticale (Winter)			\checkmark	 ✓ 	Straw - 80:1	30 - 50 30 - 50	20 - 40 20 - 40	80 - 120 80 - 120	³ ⁄4" - 1" ³ ⁄4" - 1"	14 - 16,000 14 - 16,000	Aug-Oct Mar-Apr; Aug-Sep	48 ∘	20 - 60 NR	38'			
	Triticale (Spring) Barley (Winter)	•		✓✓	~	Vegetative - 20:1	30 - 50 30 - 50	20 - 40	80 - 120 80 - 120	^{-/4} - 1 ³ /4" - 1"	14 - 16,000	Aug-Oct	40	20 - 60	38°			
SES	Barley (Spring)	~		~		Straw - 80:1	30 - 50	20 - 40	80 - 120	³ /4" - 1"	14 - 16,000	Mar-Apr; Aug-Sep	•	NR	38°			
GRASSES	Wheat (Hay)			~	~	Vegetative - 20:1	30 - 50	20 - 40	80 - 120	³ ⁄ ₄ " - 1"	11 - 12,000	Aug-Oct	48	20 - 60	38°			
GR	Wheat (Silage)					Straw - 80:1	30 - 50	20 - 40	80 - 120	3/4" - 1"	11 - 12,000	Aug-Oct	0	20-60	38º			
	Forage Sorghum		v			Vegetative-20:1	6 - 20	0	6 - 20	³ ⁄4" - 1 ¹ ⁄2"	17,000	May-July	45	NR	65°			
	Sorghum x Sudan		\checkmark			Leftover Stalks-80:1	25 - 70	5 - 20	25 - 70	³ ⁄4" - 1 ¹ ⁄2"	21,000	May-July	45	NR	65°			
	Sudangrass		\checkmark			0	20 - 45	o	20 - 45	½" - 1 "	43,000	May-July	40	NR	65°			
	Teff Grass		\checkmark			Vegetative - 20:1	8 - 12	o	8 - 12	1/4"	1,300,000	May-July	o	NR	65°			
	Pearl Millet		\checkmark	\checkmark		12:1 - 20:1	20 - 30	5 - 20	20 - 30	½" - 1 "	60,000	May-Aug	42	NR	65°			
	German Millet		\checkmark	\checkmark		12:1 - 20:1	20 - 25	5 - 15	20 - 25	1"	220,000	May-Aug	0	NR	65°			
	White Proso Millet		\checkmark	\checkmark		12:1 - 20:1	20 - 30	5 - 20	20 - 30	1"	80,000	May-Aug	37	NR	65°			
	SF 101 Cover Starter			V	V	0	30 - 35	o	40 - 50	¼" - 1 "	o	Aug-Sep	48	30 - 40	45°			
E	SF 102 Cover Starter+			\checkmark	\checkmark	o	30 - 35	0	40 - 50	¼" - 1 "	0	Aug-Sep	54	30 - 40	45°			
XIM	SF 125 N-Hancer		 ✓ 	 ✓ 		o	35 - 40	0	40 - 50	¼" - 1 "	o	July-Sep	44	NR	45°			
ST®	SF 140 Multi-Purpose		 ✓ 	 ✓ 	√	0	35 - 40	0	40 - 50	¹ ⁄4" - 1"	0	July-Sep	50	NR	45°			
FIR	SF 142 Classic		 ✓ 	\checkmark		0	12 - 15	0	15-20	1/4" - 1/2"	0	Aug-Sep	52	20-25	45°			
SOIL FIRST® MIXES	SF 150 Field Fit		 ✓ 	\checkmark		0	30 - 35	0	40 - 50	¹ /4" - 1"	0	Aug-Sep	36	30 - 40	45°			
•••	SF 160 Rooting SF 175 AccuSpread			\checkmark	\checkmark	0 0	15 - 20 20 - 25	0 0	20 - 25 25 - 30	1/4" - 1/2" 1/4" - 1/2"	0	Aug-Sep	50 35	20 - 25 25 - 30	45° 45°			
_	SF 175 AccuSpread Phacelia		\checkmark	\checkmark	×	° 12:1 - 18:1	20-25	° 1-2	25-30	<u>+/4" - +/2"</u> 1/4"	° 230,000	Aug-Sep Jun-Sep	35 °	25-30 8-10	45° 37°			
æ	Sunflower		✓ ✓	\checkmark		Leaves 20:1, Stalks 40:1	8 3-5	1-2	8 3-5	^{-/4} " 3/4" - 1"	8,000	May-Aug	28	8 - 10 NR	50°			
OTHER	Buckwheat	~	~			10:1 - 18:1	40 - 55	5-20	40 - 55	¹ /2" - 1 "	15,000	May-Aug May-Aug	40	NR	65°			
0	Sugar Beet		~	~		Tops - 19:1	2 - 5	1-3	2-5	1/4"	10,000	May-July	24	NR	50°			
_		atio	ne h	200	d on	average growing season t					,000							

Days to Harvest = Estimations based on average growing season to reach optimum quality

* +/- 5%. Bulk Density averages are only a guide. Moisture, humidity and seed quality all affect bulk density.

REFERENCES: Texas Tech University, Oklahoma State University, Iowa State University, Mississippi State University, North Dakota State University, Colorado State University, University of Florida, Michigan State University, University of Wisconsin, Kansas State University

		NON-FORAGE BENEFITS NON-FORAGE BENEFITS									NUTRITIONAL VALUE INFORMATION (VALUES VARY GREATLY DEPENDING ON MATURITY)										
ZONE		XES OR	-	z	(5 = E)	KCELLE	NT, 1 =	POOR)	5	ENT	EIN					ACRE		F			
USDA Hardiness zone	DAYS TO Emergence	NITROGEN FIXES OR SCAVENGES	COMPACTION Alleviation	WEED SUPPRESSION	BIOMASS Production	EROSION CONTROL	DISEASE/PEST Control	POLLINATOR/ Beneficials	P & K CYCLING	EASE OF Establishment	CRUDE PROTEIN	NEL [†] Mcal/lb	ADF% ‡	NDF% \diamond	TDN	DM TONS PER ACRE	DAYS TO 1ST Harvest	DAYS TO NEXT Harvest	GRAZE	BALEAGE	снор
		† - Net Energy for L	actation =	Energy av	ailable aft	ter subtra	cting dige:	stive and r	netabolic	losses	‡ - Acid Dete	ergent Fiber =	= Low values	mean more d	igestible	◇ - Neutral I	Detergent Fib	er = Low valu	es mean c	ows can ea	t more
9	3 - 5	Scavenger	5	5	4	4	3	2	4	5	18	0.73	26	21	70	2-4	45	0	+++	0	+
9	3-5	Scavenger	4	5	4	4	4	3	4	5	18 16	0.73 0.70	26 23	21 20	70	2-4	45 60-80	0 0	+++	0 0	+
6-7 7	4 - 10 4 - 6	Scavenger Scavenger	3	(5) (4)	4 4	3 3	3 3	3 3	3 3	5 5	10	0.70	23	20	69 78	2-5 2-5	35-40	25-30	+++	++	++
5	4 - 10	Scavenger	3	4	4	4	3	3	3	5	20	0.74	25	21	70	2-4	35-40	25-30	+++	0	+
5	4 - 10	Scavenger	5	3	4	4	4	4	4	5	14	TBD	28	41	57	1.5-4	60-80	0	+	++	+++
7	5 - 7	Scavenger	4	3	4	3	4	5	3	5	o	o	o	o	0	0	0	o	0	o	-
7	7 - 10	Fixer	2	4	3	3	3	3	3	4	17	0.56	31	42	59	.5-2	60	0	++	+++	+
8 5	5-8 14	Fixer	2	4	3	4 4	1 3	3	4 3	4	18 16	0.73 TBD	23 31	36 45	69 65	1-2.5 1-4	60 40-50	0	+++	+++	++ +++
5 3-4	14	Fixer Fixer	3	4 4	4 4	3	3	5 5	3 (4)	4 3	26	0.58	33	45 48	64	1-4	Spring	0	+++	•	+
Frost	3 - 7	Fixer	2	4	5	3	3	4	3	3	25			Greatly -		1-5	40-45	o	+++	+	++
6+	9	Fixer	2	4	3	3	3	4	2	4	28	0.60	38	54	70	0.5-2	Spring	o	++	+	+++
Frost	9	Fixer	2	4	3	3	3	4	2	4	10	0.60	52	62	60	1.5-3	60-80	o	++	+	+++
Frost	9	Fixer	2	4	3	3	3	4	2	4	16	0.58	44	55	58	1.5-3	60-80	0	0	+	+++
Frost 4	5-9 7-10	Both	2	4 4	4 4	4 3	3 2	3	3	4 3	17 16	0.57 0.56	30 36	57 46	59 55	3-5 2-5	60 Spring	。 40	++ ++	++++	++++ +
6	7 - 10	Fixer Scavenger	5	5	3	5	3	2	3	5	9	0.58	38	65	55	.5-2	90	4U 0	++	+	++++
7	5-8	Scavenger	2	4	5	4	3	1	3	4	10	0.54	39	63	54	3-6	60-70	o	++	+	+++
7	5 - 8	Scavenger	2	4	4	4	3	1	3	4	12	0.60	39	59	60	1.5-3.5	80	0	0	+	+++
3	5 - 8	Scavenger	4	5	4	5	3	1	4	4	10	0.58	38	65	58	3-5	Spring	o	+	++	+++
3	5-8	Scavenger	4	5	4	5	3	1	4	4	14	0.59	37	59	59	2.5-4	Spring	0	0	+	+++
3	6 - 8 6 - 8	Scavenger	2	44	5 5	4 4	3	1	4 4	4 4	12 12	0.58 0.58	41 39	69 56	56 58	2.5-4 3-4	Spring 50-60	0	+++	++	+++
6	6-8	Scavenger Scavenger	1	4	5	4	3	2	3	4	9	0.58	39	65	57	3-4	Spring	0	++	+	+++
6	6 - 8	Scavenger	1	4	5	4	3	2	3	4	12	0.58	37	58	59	2-4	50	o	++	+	+++
3	6 - 10	Scavenger	3	4	4	5	3	1	4	4	9	0.57	38	66	59	2-3	Spring	o	++	+++	+
3	6 - 10	Scavenger	3	4	4	5	3	1	4	4	12	0.59	37	62	59	2-3	Spring	o	0	+	+++
Frost	10	Scavenger	4	5	5 5	4	4	3	3	4	9	0.59	38	59	59	6-9	80-105	0	++	+	+++
Frost Frost	10 3 - 5	Scavenger Scavenger	4	5 5	5	4 4	4 4	3 3	3 3	4	16 9	0.70 0.57	29 43	55 67	55 57	5-8 2-6	45-70 50	30 30	+	++ ++	+++ +++
Frost	3 - 5	Scavenger	1	3	3	4	3	2	3	4	18	0.60	33	57	64	3-5	35	25	o	+	+++
Frost	3 - 5	Scavenger	3	5	5	4	4	3	3	5	16	0.66	39	48	52	3-6	45	35	++	+	+++
Frost	3 - 5	Scavenger	3	3	4	5	3	1	3	4	14	N/A	34	60	60	2-4	50	0	+++	0	0
Frost	3-5	Scavenger	3	3	4	5	3	1	3	4	12	N/A	39	72	62	1.5-2.5	50	0 Curring	+++	0	0
0 0	Varies Varies	Scavenger Both	5 5	5 5	5 4	4 5	3	2 2	4	4 4	10-13 12-15		Nutrition v		•	2-5 2-5	45-50 45-50	Spring Spring	+++ +++	+	++ ++
0	Varies	Fixer	4	4	4	5	2	3	4	4	14-18		lue to diff the forage			2-5	45-50	opinig	+++	+	++
o	Varies	Both	4	5	5	3	3	2	3	5	11-14		the mix co			3-5	45-50	25	+++	+	++
0	Varies	Both	4	3	3	3	3	3	4	4	16-18		and diffe			2-4	45-60	Spring	+++	+	++
0	Varies	Scavenger	5	5	4	3	3	2	3	5	13-17		how and v mponent			2-4	45-50	0	+++	0	+
0 0	Varies Varies	Scavenger	5 5	4 4	4 4	4 4	4 4	3 3	4 4	4	10-14 10-16		razed vers			2-4 2-5	45-50 45-50	Spring	+++ +++	+	++
8	10 - 14	Both Scavenger	2	5	3	3	4	5	2	4	0-10	0	o	0	0	2-3 0	4 5 -50 ∘	Spring °	•	•	+
Frost	4 - 10	Scavenger	4	3	3	4	3	5	4	3	11	TBD	36	42	63	2-3	Varies	0	+++	o	++
Frost	3 - 5	Scavenger	3	5	4	2	1	5	5	5	12	0.68	33	44	65	1.5-4	60	o	++	o	+
8	7 - 14	Scavenger	4	4	4	3 3 2 3 ④ 14 0.58 14 25 58 2-4 60-80 • +++ •						0	+								
So	me Benefit	= +			mended			AI	lfalfa (S	• •	18	0.55	37	49	55	3-8	0	30	0	o	+++
M	ore Benefit	= ++		Not App	plicable	= 0			Alfalfa		19	0.59	35	45	59	3-8	0	30	+	++	+++
B	est Benefit	: = +++							Corn (S	Silage)	8	0.74	27	46	72	7-10	120	o	o	o	+++



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



Go to brierridgeplotseed.com for planting windows and other useful information.

NAME	BRASSICAS	LEGUMES	GRASSES	WILDFLOWERS	ESCRIPTION						NNUAL/ Erennial	SEEDING RAT (LBS/ACRE)	E BA((LB	G SIZE S)
BULLS-EYE Deer Turnips	•			•	 Early fall planted annual turnip blend offering early/late fall food source Performs well on light to heavy soil types in light shade to full sun Turnips will remain green until 10°F Optimally planted 6 - 8 weeks prior to killing frost, sugars will flush vegetative growth after frost, making it an appealing food source Unique blend of turnips provide extensive above & below growth 							2 Lbs Per ¼ Ac	cre 2	
DEER CANDY Sugar Beets				•	Late spring plan Performs well or Provides high en	i medium to h	eavy, well dra	ined soils in t	ull sun	А	NNUAL	2 - 3 (Drilled) 8 (Brdcast)	1	
8847 GT1 FORAGE GOYBEANS					Spring/fall plante Performs well on Glyphosate toler Increased plant	light to heav ant, late mat	y soil types in	light shade to	o full sun	A	NNUAL	140,000 Seeds/Acre		0,000 ed Count
PLOT SPIKE® Orage Dats				•	Spring/fall plante Performs well or Late maturing fo Selected for colo Easy to establish	l light to heav rage oat d tolerance	y soil types in	light shade t	/fall food source o full sun	A	NNUAL	100 - 120	50	
ITAN™ ORAGE APESEED	•				A new generation High yielding mul Highest animal p Excellent regrowt Suitable for sumr Excellent aphid a	ti-graze, intern reference rape h potential ner, autumn a	nediate height cultivar availa nd winter feed	rape		А	NNUAL	3.5 - 4	50	
/ILDLIFE RAIN ORGHUM DWARF YPE)				•	Summer planted Performs well or Quick to establis Food source for Drought tolerant	annual offerin I light to heav sh, requires 6 various bird s	g cover for upl y soil types in 0 - 65°F soil 1	light shade to emps for pla	o full sun		NNUAL	6 - 8 (Drilled) 8 - 10 (Brdcas	50 t)	
/ILDLIFE UNFLOWER PEREDOVIK YPE)			(Spring planted a Performs well on Food source for Drought tolerant	innual offerin light to heav various bird s	y soil types in	light shade to		5 A	NNUAL	6 - 8 (Drilled) 8 - 10 (Brdcas	50 t)	
Bob H., Central low	a a			X	"	neighborho with excelle	ood has the g ent germinat nutrients to	genetics and ion and stro	tetails begins w l Brier Ridge® p ng vigor gives o ximum amount	rovides u our food p	s with the lots that ex	nutrition. Qua ktra edge by pr	lity seed	
	SEEDING (LBS/A		BAC SIZI (LBS	E	BRASSICAS LEGUMES	GRASSES	WILDFLOWERS	ANNUAL/ Perennial	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	WILDFLOWERS
ANNUAL I	HABIT		DE-A- 10				FORB	PERENN	IIAL HABITAT 9	HIDE-A 9 & 50	-WAY			
 Summer bedding/ Performs heavy sois shade to Quick to e 60 - 65° planting/alternativ Hide-A-W Can react 	buffer well or I types full sur establis F soil te germir re to Pe Yay	source h light t in ligh sh, req emps f hation, erennia	anted a co t uires or annua ol Habit	as 60 30 10		Sorghum	Gorghum	perenni round b • Perform heavy s shade t • Mainter slow es alternat <i>Hide-A</i> -	fall planted nat al mix offering y edding/buffer s s well on light to oil types in light o full sun nance needed d ablishment per ive to Annual Haw Way ch heights up to	vear- source o t luring riod; abitat	33% Inc	or hment		

Food Plot Mixes

100		1-11	ACS			s							S
ANNUAL/ PERENNIAL	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	WILDFLOWERS	ANNUAL/ Perennial	SEEDING RATE (LBS/ACRE)	BAG SIZE (LBS)	BRASSICAS	LEGUMES	GRASSES	WILDFLOWERS
AUTUM	N ENERGY						BUCK'S	BANQUET					
ANNUAL	40 - 50	25	•				ANNUAL/ PERENNIAL	10	10 & 5				FORB
species fall foo Perform heavy s shade t Portion air tem Optima	Il planted annual s offering early/la d source ns well on light to soil types in light to full sun remains green u ps reach 10 - 15 illy planted 6 - 8 prior to killing fros	te ntil °F	6% Tilla	spike® Oat ge Radish [«] ole Top Turr	Ð		perenn late fall For med in light Clover/ after br Portion temps i Optima	Il planted annua ial species offeri I food source dium to heavy so shade to full sur (chicory remain p rassicas winterki remains green to reach 10 - 15°F illy planted 6 - 8 killing frost	ing early/ bil types n perennial III until air	20% 15% 15% 10% 10%	Orion XL Ladir Rapeseed Purple Top Tur Tillage Radish Intermediate V Radium XL Als Chicory	nips ® White Clove	r
DEER C	OUNTRY POIN	r Build	ER PLUS				DEER C	OUNTRY FIEL	D MIX				
ANNUAL/ PERENNIAL	15 20 - 25 (Drilled) (Brdcast)	25	•			FORB	ANNUAL/ PERENNIAL	10 15 - 20 (Drilled) (Brdcast)	25				
perenn year-ro • Perforn heavy s shade t • Include perenn	/fall planted ial mix offering und food source ns well on mediur soil types in light to full sun es high sugar ial grass & high legumes	n to	15% Rap	n XL Ladin 1 Sugar Per eseed rmediate V			perenn year-ro • Perforn heavy s shade t • Include legume	/fall planted ial mix offering und food source ns well on light to soil types in light to full sun es high energy es that will thrive ous geographical ns	0	20% 15% 10% 10%	FF Pro Alfalfa High Sugar Pe Orion XL Ladir Radium XL Als Red Carpet XL Intermediate Berseem Clov	io Clover ike Clover Red Clover White Clove	
DEER C	OUNTRY TRAIL	. MIX					HORN H	IONEY					
ANNUAL/ PERENNIAL	10 15 - 20 (Drilled) (Brdcast)	25					PERENNIAL	10	10 & 5				FORB
perenn year-ro • Perforn soil typ shade t • Very qu	/fall planted ial mix offering und food source ns well on light to es in moderate to full sun nick & easy establ es shade tolerant	ishment	20% Bers 20% Inter 15% Crim 15% Cree 10% Rad	seem Clove rmediate V nson Clove eping Red F	Vhite Clove r Fescue		offering Perforn heavy s shade t Include that wil geogra Chicory	/fall planted pero g year-round food ns well on mediu soil types in light to full sun es high energy le Il thrive in variou phical locations y will thrive durin er months	d source im to gumes s	25% 25% 15%	Orion XL Ladir Red Carpet XL Intermediate Radium XL Als Chicory	Red Clove White Clove	
RUT N F	READY						SUCRA	SEED® SWEE	r spot				
ANNUAL	8	8 & 4	•				ANNUAL/ PERENNIAL	10 Lbs Per ¹ ⁄ ₂ Acre	10				FORB
 early/la For ligh light sh Brassic temps Optima prior to vegetat appeali Brassic 	II planted annual ate fall food sourc t to heavy soil typ ade to full sun cas remain green reach 10 - 15°F Ily planted 6 - 8 we killing frost, sugars ive growth after fro ing food source as attract deer ear ling frost	ee bes in until air eeks s flush ost for	30% Tilla 20% Rap 20% Purp 10% Fora 10% Fora 10% Fora	eseed ble Top Turr age Kale nt Brassica	nips a		offering Perform soil type Quick to withsta Include sugar c	fall planted perer year-round food is well on mediun es in light shade t o establish & able nd heavy grazing es grasses with h content & higher legumes	source n to heavy to full sun e to iigher	10% 10% 10% 7% 5%	Aber HSG Pero Medium Red (Frosty Bersee Fixation Balar Ladino White Chicory Purple Top Tur	Clover m Clover Isa Clover Clover	rass

		MIX PERCENTAGES											SEEDING	
		ELTE	LXQ	ELTE	LXQ	TXQ	ELTE	LXQ			ELTE		′1,000 Q FT	
Earth Carpet THE SCIENCE IS IN THE SEED	Mixes		tucky grass		nnial (rass	Annual Ryegrass	Creep Red Fe		Chewings Fescue	Hard Fescue	Tall Fescue	NEW	OVER	
PROFESSIONAL LAND	SCAPE MIXES													
choice sun & shade	Ideal for establishing premium lawns or upgrading existing turf	40		30			15		15			4-6	2-4	
madison parks [°]	Ideal for establishing premium lawns or upgrading existing turf	50		25			25					4-6	2-4	
spartan [®] GRADE A	Ideal for establishing premium lawns or upgrading existing turf	40		20			20		20			4-6	2-4	
wear-n-tear®	Ideal for establishing premium lawns or upgrading existing turf	40		40			10		10			4-6	2-4	
GENERAL LANDSCAPE	MIXES													
park place°	Ideal for home lawns, parks & school grounds		50		25			25				4-6	2-4	
sunny place [°]	Ideal for home lawns & commercial landscapes		33		34			33				4-6	2-4	
quick-2-gro	Ideal for areas needing quick establishment		25		25	25		25				4-6	2-4	
michigan green®	Ideal for the Great Lakes Region & easy on your budget		15		15	30		40				4-6	2-4	
KENTUCKY BLUEGRAS	SS & PERENNIAL RYEGRASS BASED MIXES													
blue carpet $^\circ$	Ideal for golf course tees, fairways & fine home lawns	100										2-4	1-3	
pro-sports [®]	Ideal for sports fields & other high performance areas	80		20								3-5	2-3	
sports park OS	Ideal for renovating athletic fields & playgrounds	50		50								3-5	2-3	
champion	Ideal for renovating athletic fields & high traffic areas			100								6-8	3-5	
SLOPE & SHADE MIXE	S													
care-free	Ideal for hillsides, deep roughs, RV parks & cabin sites						34		33	33		6-8	3-4	
shady place [®]	Ideal for home lawns with moderate to densely shaded areas	10		10			40		40			5-8	3-4	
TALL FESCUE BASED N	ЛІХЕЅ													
green resistor [®]	Ideal for home lawns, athletic fields & golf course roughs										100	8-10	4-8	
tuff-stuff [®]	Ideal for high traffic, athletic fields & golf course roughs	10									90	8-10	4-8	
survivor	Ideal for low maintenance sites	15		15			15		15		40	8-10	4-8	
A-List	Elite Varieties													

LA CROSSE GUALITY Branded Components

Sweet Corn

A-LIST Approved

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.

Varieties

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 75 Ambrosia bicolor **Bodacious** 75 yellow Delectable 84 bicolor Incredible 85 yellow Serendipity 82 bicolor





Premium Seed Coating + Quality Seed = Best Possible Seedling Establishment

CrosseCoat™ is an elite platform of proven seed coating and treatments to enhance germination, establishment and survival of the top varietals, blends and mixes 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

Inoculants



Bayer SeedGrowth VERDESIAN

Our goal is to offer our customers the best the inoculant industry has to offer. La Crosse Seed has selected Bayer SeedGrowth[™] and Verdesian as our preferred inoculant partners. These companies provide cutting edge inoculant technologies with elite performance, ease of application and excellent technical support.

SOYBEANS

TAGTEAM [®] XC	MultiAction® phosphate-solubilizing, nitrogen fixing liquid inoculant with LCO Promoter Technology® for retail application
OPTIMIZE [®] XC	${\rm MultiAction}^{\circledast}$ nitrogen fixing liquid inoculant with LCO Promoter Technology $^{\circledcirc}$ for retail application
CELL-TECH® LIQUID	Liquid seed applied single-action nitrogen fixing inoculant for grower application
N-DURE PEAT	Peat based, seed applied nitrogen fixing inoculant for soybeans
PRESIDE CL	Features Take-Off technology, an advanced crop nutrient assimilator that accelerates nutrient acquisition and use efficiency of nitrogen. Preside CL is a fast-mixing, easy to handle, highly concentrated liquid inoculant for soybeans.
N-TAKE	Liquid seed applied single-action nitrogen fixing inoculant for grower application

OTHER FORAGE AND COVER CROP LEGUMES

LINK™	LINK™ Cover Crop Inoculant can be used effectively on over 50 legumes making it also a convenient option for forage planting
N-DURE PEAT	N-DURE peat based seed applied nitrogen fixing inoculants for alfalfa, all clovers, birdsfoot trefoil, pea, vetches, lentils, cowpeas and sunn hemp
All Crops QuickRoots	QuickRoots inoculant has been proven by field trials to enhance seedling vigor and increase uptake of certain nutrients including NPK, which leads to expanded root volume, root mass and fine root hairs, promoting optimal plant growth and increased yield response

CrosseCoatTM Coating Details*

tional Treatments
roloc
roloc
n

Additional Coated Products We Offer

Medium Red Clover	СР	34% 🔴 Yes		
Crusade White Clover	СР	34% 🔘 Yes		
Frosty Berseem Clover	CP	34% 🔴 Yes		
Common Orchardgrass	CTD	34% 🔴		
Common Smooth Brome	CTD	34% 🔴		
WL Alfalfas - HVX/RR	CPF	34% 🌑 Yes	Stamina + Apron XL	Gold Treatment Plus
WL Alfalfas - Other	CPF	34% 🔵 Yes	Stamina + Apron XL	Gold Treatment Plus
FSG Alfalfas - HVX/RR	CPF	34% 🌑 Yes	Allegiance-FL	AquaBond with Nutri-Start
FSG Alfalfas - Other	CPF	34% 🌓 Yes	Allegiance-FL	

*Coatings are comprised of calcium carbonate, commonly described as lime

Descriptions

Hydroloc	Branded name for XC1 hydration component. Natural, mineral-based material. Absorbs 3x more water than regular limestone coating.
Nitragin Gold®	Nitrogen-fixing inoculant for alfalfa and clover promotes seed adhesion & maximum yield; Apron XL/Allegiance FL compatible
Stamina®	Fungicide seed treatment providing robust disease control & more rapid/increased emergence under certain cold conditions
Apron XL®	Seed treatment product for protection against Pythium and Phytophthora causing damping-off, seed rot, and systemic downy mildew diseases of certain crops
Allegiance-FL®	Seed treatment chemical for control of seed rot and damping-off diseases of certain crops
AquaBond [®] with Nutri-Start [®] (FSG)	Plant/environment-friendly seed treatment combining water absorbing polymer & micro-nutrient fertilizer package for improved germination & emergence
Gold Treatment Plus™	W-L's Gold Treatment Plus™ features 34% coating with Optimize® Gold LCO Promoter, Stamina® fungicide, Nitragin Gold® inoculant, Apron XL® fungicide and a micro-nutrient package (Mo/Mn)

Coating Abbreviations (as noted on La Crosse Seed pricelist and seed tags)*

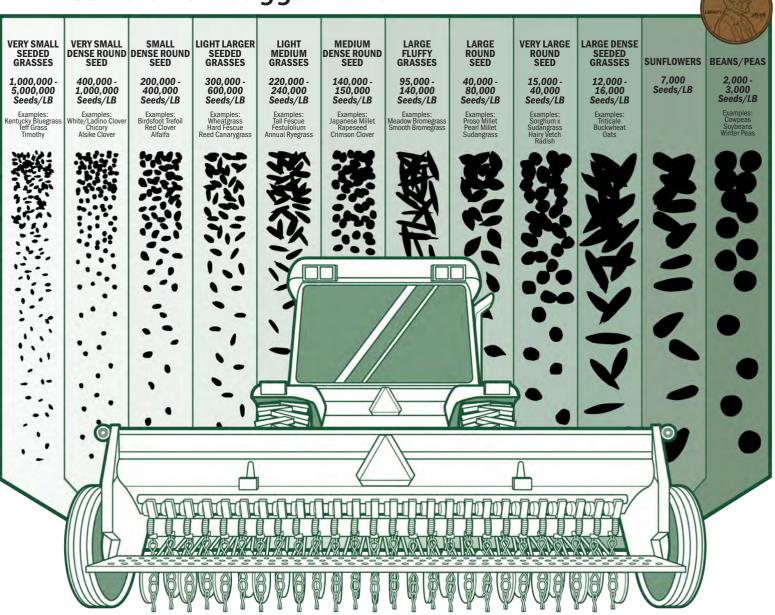
PI	Pre-Inoculated, no Coating or Fungicide
CP	Coated, Pre-Inoculated
CPF	Coated, Pre-Inoculated, and Fungicide
CTD	Coated Only

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

*Lot number abbreviations may differ from above. Refer to tag for specific seed treatments.

Drill Calibration Suggestions



Seed or sowing charts provided by drill manufacturers are a great place to start to ensure the correct LBS get seeded. However, some drills may not be as accurate due to age and/or wear and tear. In most cases, only a few species are listed on the chart, leading to questions about calibrating the drill for seeds not listed or when mixes are used. **The above graphic is only a suggestion, helping identify seeds with like size and density.** Besides wheel slippage, other variables can affect seed flow and seeding rates – like seed treatments and coatings.

Seed delivery systems in drills are not as precise as planters that meter seed through singulation. For this reason, it makes sense to regularly calibrate drills and seeders. One method is to seed a known area and weigh the amount of seed used. This takes vacuuming the drill afterwards to calculate LBS of seed sown. Another way is by simulating actual seeding, but with the drill stationary and raised to collect LBS of seeds falling through the seed delivery tubes (with buckets, small bags, or tarps).

Note: native seeds, forbs, and wildflowers work best when placed in the "native grass" box where applicable. PLS rates will need to be calculated using the germination and purity % on the seed tag.

This method calls for totaling the amount of drive wheel rotations needed to cover the fixed area (and then replicating those rotations to produce the amount of seed) that would be sown if it was actually sowing seed. The second exercise also detects if any drop tubes are plugged or not working properly.

When planting two or more species per planter box, calibrate each species individually OR add the index settings for the quantity of each seed being sown. Keep in mind, mixtures usually pack denser so start with the index setting for the largest seed in the mix and adjust accordingly.

34% coated legume seeds will weigh approximately 1/3 more than uncoated seed. Several Midwestern universities and equipment manufacturers have published research showing that coated seed flows faster through seeding equipment versus uncoated, with several findings showing significant variability (> 40% higher seeding rates). Coated grass seed (used primarily on "fluffy" grasses) typically increases the bulk density, resulting in seed moving through equipment faster (but not as variable as with legumes). Increased density = quicker seed movement.

Monitor seeding depth, especially when plantings first begin. Seeding depth should be approximately 3-5 times the diameter of the seeds being sown.

OTHER RESOURCES THAT MAY HELP:

- From Purdue: https://www.extension.purdue.edu/extmedia/ABE/ABE-126-W.pdf
- From Virginia Tech: http://pubs.ext.vt.edu/418/418-121/418-121.html
- From Penn State: https://extension.psu.edu/calibration-of-grain-seed-drills
- From Arkansas: https://www.uaex.edu/publications/pdf/FSA-3111.pdf
- From NRCS: https://www.nrcs.usda.gov/Internet/FSE_ PLANTMATERIALS/publications/wapmctn6331.pdf

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Planting Information Chart

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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	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	1⁄2" - 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	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	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	3⁄4" - 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	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	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	34" - 1"	Mar - Apr, Aug - Oct	6-8	Hay, Pasture	Annual
					1/4 "	Aug - Sep	4 - 10	Cover Crop	Annual
Turnips	220.000	55	2-6	1 - 4	74	Aug - Seu		COVELCION	
Turnips Weeping Lovegrass	220,000 1,482,320	55 60	2 - 6 3 - 5	1 - 4 1 - 2	74 1/2"	May - Jun	7	Hay, Pasture	Perennial

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