

UNION
FORAGE
GRAZE YEAR ROUND

2024 CROP MANUAL

CANADA'S FORAGE SEED INNOVATOR



1 877 COW-CHOW (269-2469)

unionforage.com

A MESSAGE FROM GRAEME FINN, PRESIDENT ~ UNION FORAGE

The drought across Western Canada this year has taken a toll on many perennial pasture stands, but they will come back with time and good management. These stands may need additional help but it is beneficial and cost effective to wait for the timely rains to return. Be patient before jumping into reseeding your old pastures.

Grazing and pasture systems should fit the unique set of circumstances of every individual operation. A specific system is not designed to be copied exactly from one farm to another. Instead focus on learning your own land and the interrelationships that are in place. A greater understanding of the conditions, interactions, and challenges of the land leads to more opportunities for successful improvement.

Remember 3 things when designing your grazing plan:

1. Family finances always come first. Use learning opportunities around you to make the best decision for your operation.
2. High quality feed for livestock year round is key to having a successful operation.
3. Improving soil health is a long term process and will come with continued strategic practices.

This KISS (Keep It Simple Stupid) strategy can help you design a program that will work. But change is certain, and changes will influence what is required to run your grazing operation in the future. It is a process of continual learning, refining and altering strategies to successfully deal with changes. We should never stop questioning and never stop learning.

Keep calm and graze on

Front Cover Photo Submitted by Donna Lange, Camrose AB - Dryland Blend

Contents:

What's New?	page 4
Seed Bag	page 5
Custom Blending	page 6
Photo Contest	page 7
Our Newest Team Members	page 10
Annual Blends	page 12
Irrigation & High Moisture	page 22
Gallery Photos	page 26
Enogen Corn	page 28
Field Days	page 30
Annual Species	page 32
"The Impact of Changing Systems"	page 35
Perennial Blends	page 36
Perennial Species	page 50
Resources for Best Management	page 52
Notes	Page 63
Dealer List	page 64



Inoculant is always included!



Mini Bulk Bag options available!



unionforage.com



1 877 COW CHOW



120, 5423 61st. Ave SE
Calgary AB, T2C 5N7

“Since working with Union Forage we have improved my year round grazing system with the right and practical advice. It has been a pleasure working with them”

Harry Vanderberg- Nobleford, Ab



Check out our seed bags!



- Soil type and moisture are significant considerations when determining seeding rates.
- Increase seeding rates by 20-30% when broadcasting and not incorporating seed.
- We encourage you to always consult with your Union Forage Specialist before deciding on final crop mixes and seeding rates.
- Soil depth and seed bed prep are extremely important. A good firm seed bed and shallow seed depth are necessary for optimum establishment, survivability and plant vigor!

	ESTABLISHMENT	DROUGHT TOLERANCE	SEED DEPTH BY INCHES	SEEDING RATE PER ACRE	PURPOSE	ADDITIONALS
ANNUALS						
UP BLAY BIRD	FAST	MEDIUM	1/4 TO 1/2	10 TO 18S	seeded with slugs for additional late season grazing and to improve quality and storage of silage	40-50 lbs cereal with 104 lbs forage peas
UP GREEN PEEB BIRD	FAST	LOW/MEDIUM	1/4 TO 1/2	10 TO 18S	seeded with greenfeed to increase quality and yield with quick dry down. Fine legume for additional grazing.	30-70 lbs cereal
UP ULIMATE BIRD	MEDIUM	MEDIUM/HIGH	1/4 TO 1/2	10 TO 18S	multiple grazing and in late summer zero till	30-50 lbs cereal with 104 lbs forage peas
UP DREAM BIRD	MEDIUM	MEDIUM	1/4 TO 1/2	10 TO 18S	warm season species and drought tolerance meant for dry and hot states	30-50 lbs cereal with 104 lbs forage peas
UP WINDAGE BIRD	MEDIUM	MEDIUM	1/4 TO 1/2	10 TO 18S	seeded with cereal and forage peas for high quality summer/winter grazing	20-40 lbs cereal with 104 lbs of dense grazing
UP PIONEER DREAM BIRD	MEDIUM	MEDIUM	1/4 TO 1/2	8-7 LBS	high nutrient dense winter growth grazing with cereal	80 lbs cereal and 104 lbs of forage peas
UP FOOTWAITER BIRD	MEDIUM	MEDIUM	1/4 TO 1/2	4-6 LBS	late season grazing/zero tiller cereal crop to add organic matter and increase moisture	40 lbs cereal if desired
UP DOUBLE DOWN WINDY BIRD	MEDIUM	MEDIUM	1/4 TO 1/2	20-40 LBS	Rotational silage with flexible harvesting options	
UP PEAKING BIRD	MEDIUM	LOW/MEDIUM	1/4 TO 1/2	10 TO 18S	high energy and protein cereal blend for and in late summer grazing	20-40 lbs cereal and 104 lbs forage peas
CHICAGO PULLEY STE GRASS	FAST	LOW/MEDIUM	1/4 TO 1/2	10-20 LBS	grazing, silage or hay	Seeding rates vary greatly depending on moisture and moisture conditions
EMERY (PMT) BULLAULT STE GRASS	FAST	LOW/MEDIUM	1/4 TO 1/2	10-20 LBS	grazing, silage or hay	Seeding rates vary greatly depending on moisture and moisture conditions
PERENNIALS						
MICHIGAN 5	SLOW	MEDIUM	1/4 TO 1/2	8 - 10 LBS	perennial pasture legume mix	seeded with or green mix, usually 10 lbs of Driedman or Barnyard
MICHIGAN 1A	SLOW	MEDIUM	1/4 TO 1/2	8 - 10 LBS	perennial pasture legume mix	seeded with or green mix, usually 10 lbs of Driedman or Barnyard
SHAWANATA	SLOW	MEDIUM	1/4 TO 1/2	10 LBS	perennial pasture grass mix	seeded with a legume mixture the Nitrowater or Alfalfa
BERKSHIRE	SLOW	HIGH	1/4 TO 1/2	10 LBS	perennial pasture grass mix	seeded with or legume mixture the Nitrowater or Alfalfa
UP AS TALL PEEB	SLOW	HIGH	1/4 TO 1/2	10-20 LBS	perennial pasture, silage or hay production	seeded by itself or with legume mixture the Nitrowater or Alfalfa
SHAWANATA HD	SLOW	MEDIUM	1/4 TO 1/2	10 LBS	premium grass hay blend or grazing	can be seeded with a legume mixture the Nitrowater or Alfalfa
HD HAY BIRD	SLOW	MEDIUM	1/4 TO 1/2	10-18 LBS	recommended for high dry matter yields under normal application or with N	
UP WINDAGE BIRD	SLOW	MEDIUM	1/4 TO 1/2	10-20 LBS	high quality dairy silage or hay	
EMERY	SLOW	MEDIUM	1/4 TO 1/2	10 TO 18 LBS	irrigated with cut hay or silage production	high production
EMERY	SLOW	MEDIUM	1/4 TO 1/2	10 TO 18 LBS	irrigated with cut hay or silage production, and grazing and hay blends	high production
ADDONOR ALFALFA	SLOW	MEDIUM	1/4 TO 1/2	10 TO 18 LBS	grazing and hay blends	seeded with grass and other legume blends for pasture production or hay production
SHAWANATA	SLOW	MEDIUM	1/4 TO 1/2	10-20 LBS	perennial pasture legume for hay or grazing	perennial production with grazing management (do not overgraze)

UNION FORAGE

WHAT'S NEW?



Union Forage is expanding, to better suit our customer base across the prairies. The addition of a second warehouse facility is coming to Saskatchewan/Manitoba border for the 2024 season!

Stay tuned for updates...

UNIONFORAGE.COM

Our seed bags come with all the information you need to know

CUSTOM BLENDING

A blend suitable to each individual needs, just a phone call away! Give us a call 1 877 COW-CHOW

Now on offer to be purchased in bulk or tote bags:

- Spring Cereals
- Winter Cereals
- Forage Peas

Did you know...



We offer early order- early pay discounts!

10% discount - December 31st, 2023

7% discount - March 31st, 2024



**PHOTO
CONTEST**



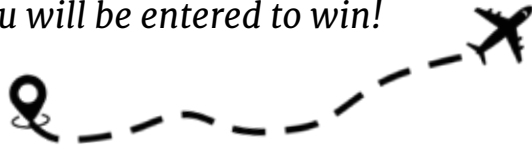
We want to hear from you!

Email amber@unionforage.com to submit photos of your Union Forage Crops!
Enter to win your photo in the 2025 Crop Manual & we will give you a free bag of seed on your next order.

Photo submitted by Amanda Wunsch

**BOOK YOUR FORAGE SEED EARLY
&
YOU COULD BE HEADED ON UNION FORAGE'S
NEXT ADVENTURE**

Union Forage educational tours are back! Book your seed before January 31st and you will be entered to win!



Rennes France – Normande Cattle Dairy Herd



FCC Input Financing

With up to 18 months to pay, it's the simple and flexible way to free up your cash flow. Get pre-approved and take the guesswork out of managing your crop input and fuel purchases.

fcc.ca/Inputs

18-MONTH CROP CYCLE



Contact Union Forage for further information.
1 877 COW CHOW

OUR NEWEST TEAM MEMBERS:



Alexandra Strunina

Alexandra Strunina joined the Union Forage team in September 2022 in the role of Supply Chain Administrator. She recently came to Canada from Ukraine, a country famous for its rich soils and favorable climate making it one of the largest agricultural producers on the European continent. Alexandra has 10 years of extensive experience in Ukrainian agriculture business in the areas of grain export, logistic activities, and client support. Having an enthusiastic and passionate attitude, she will work with our supply chain network including product deliveries. Alexandra will be an important member of our customer service team in Calgary.



Luke Verhoeve

Luke joined the Union Forage team in August 2023. His main roll will be focusing on Enogen corn sales. Luke moved to Alberta from Southern Ontario where he grew up on a grain farm and helped on his Uncle's tobacco farm. Luke brings 7 years of Ag retail experience where he sold crop inputs. Luke will work on growing the corn business in southern Alberta and supporting dealers in Saskatchewan and British Colombia.



Oleksii Zhyla

Oleksii recently joined Union Forage full time in the role of Warehouse Coordinator. Previously he was a member of our seasonal crew as a reliable and detail-oriented team player and was the lead on the custom blending team.

Oleksii's full-time role will be to take over from Sean Cairns who we wish well in his retirement. His responsibilities will now include all shipping and receiving, Custom Blending and warehouse organization. Oleksii will be an important addition to the production and service team of Union Forage in Calgary.

FIND US AT YOUR LOCAL AG RELATED EVENTS!



ANNUALS

ANNUAL BLENDS & VARIETIES

The number of species you choose should come through a sound approach. Research has shown 2-6 species accomplish most of the targeted results. Results vary from year to year as weather and management can make species winners one year and losers the next. We recommend you start with less. Use known producing species as a base. Then add other species strategically to address your concerns. Follow by monitoring and managing for greatest success.

Blend Type	Page #
Complete Annual Blend	Page 14
Dryland Blend	Page 15
Regraze Blend	Page 15
Double Down Regen Blend	Page 16
Rootmaster Blend	Page 16
Ultimate Annual Blend	Page 17
Break Crop Blend	Page 17
Swath Grazing Blend	Page 18
Relay Blend	Page 20
Green Feed Relay Blend	Page 20
Crusader Italian Ryegrass	Page 23
Green Spirit Italian Ryegrass	Page 23
Rocket Fuel Blend	Page 24

Eldon Zimmerman
Relay Blend
McBride, BC

COMPLETE ANNUAL BLEND

An annual grazing and soil amendment blend from Union Forage that is a complete blend in a bag. This combination of high-quality forages will give you what you are looking for in a one pass seeding. We have added a blend of C4 species for more diversity. This blend can be grazed or stockpiled for swath grazing or fall/winter grazing. The species selection delivers high feed quality and regrazing capabilities all summer long- weather permitting. This blend combination will stay palatable long into the fall. It comes in mini bulk bags for your convenience of handling.

SEEDING RATE: 65 - 75 lbs/acre

FORAGE OATS

WINTER TRITICALE

4010 FORAGE PEAS

C4 BLEND

T RAPTOR TURNIP

FORAGE RAPE

BARKANT TURNIP

*Complete Annual Blend
September 20th, 2023
Elgin, MB*

DRYLAND BLEND

+ SUPER G COATING

The Dryland Blend is designed with a higher percentage of warm season forages (C4's) and drought tolerant forage rape that is better adapted to hotter dryer areas. This blend can be used for multiple summer grazings or stockpiled forage. Biodiversity gives varied species expression as climate and nutrient availability impact results every year. Fertility is important for best results.

SEEDING RATE: 10-12 lbs/acre.

Option to include 20-30 lbs of cereal and 10+ lbs of 4010 Forage Peas.

PROSO MILLET

SORGHUM SUDAN

HAIRY VETCH

BARKANT TURNIP

FORAGE RAPE

SUNFLOWER

REGRAZE BLEND

The Regraze blend is designed to be seeded along with a cereal to create a high quality feed. This blend can be grazed multiple times throughout the growing season and seeded early because there are no C4's. The forages that make up this blend deliver high feed quality and regrazing capabilities- weather permitting. This blend combination will stay palatable long into the fall. It's available in 55 lb bags or tote bags for your convenience of handling.

SEEDING RATE: 12-15 lbs/acre. Add 30-40 lbs of Cereal along with 10+ lbs of 4010 Forage Peas.

WINTER TRITICALE

FORAGE RAPE

T RAPTOR TURNIP

GREEN SPIRIT
RYEGRASS

HAIRY VETCH

BARKANT TURNIP



DOUBLE DOWN REGEN BLEND

BI-ANNUAL GRAZING BLEND

The Double Down Regen Blend is a versatile two year bi-annual grazing, silage or swath grazing crop. It is designed to stand up to a wider range of moisture conditions across the prairies. In the first year it can be sown early spring and grazed or utilized as green feed, silage or swath grazing and then grazed in the fall/early winter. As the Sweet Clover, Winter Triticale and Red Clover come back in the spring of year two it can be utilized as an early grazing or silage option. Available in 55 lb bags or tote bags for your convenience of handling.

SEEDING RATE: 30-40 lbs/acre. Add in 10+ lbs of spring cereal to increase early grazing production.

WINTER TRITICALE

SWEET CLOVER

RED CLOVER

WINFRED/GOLIATH

HAIRY VETCH

CHICORY

ROOTMASTER BLEND

+ SUPER G COATING

The Rootmaster Blend is a low-cost combination of tillage radish and brassicas, intended for a plow down cover crop or grazing if applicable. These species have been selected to provide a protective canopy over the soil and complex root structures below. Not recommended for grazing in high sulfur conditions.

SEEDING RATE: 4-6 lbs/acre. Seed with 40 lbs of cereal if desired.

DAIKON RADISH

FORAGE RAPE

BARKANT TURNIP

T RAPTOR TURNIP

ULTIMATE ANNUAL BLEND

+ SUPER G COATING

The Ultimate Annual Blend is a balance of grasses, legumes and brassicas. Our field trials show that these species work together to yield exceptional nutritional quality and agronomic benefits for grazing and soil health. This makes for high-quality annual grazing, where performance may be maximized in a rotational grazing system.

When combined and seeded with cereal and peas it can be grazed 2-3 times throughout the summer, followed by a total graze off in October/November. This blend is ideal for improving body condition on all classes of livestock entering winter.

SEEDING RATE: 10-12 lbs/acre. Add 30-40 lbs Cereal and 10+ lbs 4010 Forage Peas.

CRUSADER RYEGRASS

HAIRY VETCH

HUNTER TURNIP

CRIMSON CLOVER

WINFRED/GOLIATH

GRAZA RADISH

BREAK CROP BLEND

+ SUPER G COATING

The Break Crop Blend is designed to give you an option of keeping a brassica out of your crop rotation. This blend does not include a brassica, helping to lower the risk of clubroot disease and flea beetle pressure. This blend can be grazed or used as a plow down crop.

SEEDING RATE: 10-12 lbs/acre.

CRUSADER RYEGRASS

HAIRY VETCH

CRIMSON CLOVER

SWATH GRAZING BLEND

+ SUPER G COATING

Our swath grazing blend is designed to be an additive to your own cereal swath grazing. The blend is created to increase protein, energy levels, and digestibility, all while allowing you to graze more animals and produce more lbs/acre. When managed with break fencing, it ensures a good swath clean up. The root system left behind adds more organic matter to your soil.

SEEDING RATE: 5–7 lbs/acre. Add 30–40 lbs of cereal and 10+ lbs of 4010 Forage Peas.

GOLIATH
FORAGE RAPE

GREEN GLOBE
TURNIP

HUNTER LEAFY
TURNIP



Swath Grazing Blend & Millet
Carlyle, SK



Swath Grazing Feed Test Results Below:

CERTIFICATE OF ANALYSIS

PAGE: 1

LAB NUMBER: 2648050
SAMPLE ID: 2023 SWATH GRAZE
SAMPLE MATRIX: Greenfeed
SAMPLE CUT:
TEST CODE: FN2WM

DATE SAMPLED: 2023-09-19
DATE RECEIVED: 2023-09-21
DATE REPORTED: 2023-09-25
DATE PRINTED: 2023-09-26

PARAMETER	RESULTS		UNIT	METHOD
	AS FED	DRY		
DRY MATTER				
Moisture	63.41	0.00	%	AOAC 930.15
Dry Matter	36.59	100.00	%	Calculation
PROTEIN				
Crude Protein	4.93	13.48	%	NIR
Soluble Crude Protein	27.70	27.70	% of CP	NIR
ADF-CP	0.49	1.35	%	NIR
NDF-CP	0.78	2.13	%	NIR
UIP (Bypass Protein)	41.31	41.31	Est % CP	NIR
FIBRES				
Acid Detergent Fibre	9.53	28.05	%	NIR
Neutral Detergent Fibre	18.22	44.33	%	NIR
Total Digestible Nutrients	25.10	68.61	%	Calculation
NDFD (24Hr)	54.06	54.06	% of NDF	NIR
NDFD (48Hr)	64.43	64.43	% of NDF	NIR
NDF Dissappearance Rate	5.03	5.03	%/hour	Calculation
Lignin	1.23	3.37	%	NIR

RELAY BLEND

+ SUPER G COATING

The Relay Blend combines the nutrient dense brassica varieties along with Italian ryegrass and hairy vetch. This blend is designed to be used with oats and/or barley for silage, or for swath grazing. It is important to reduce the seeding rate of the cereal to manage competition and allow for growth under the canopy. Seeding this blend with silage offers improved quality and late season grazing- weather permitting. The addition of forage peas for nitrogen fixation is recommended whether it be for silage or grazing.

SEEDING RATE: 12-15 lbs/acre. Add 40-50 lbs of cereal and 10+ lbs of 4010 Forage Peas.

CRUSADER
RYEGRASS

HAIRY VETCH

HUNTER LEAFY
TURNIP

WINFRED/GOLIATH

GREEN FEED RELAY BLEND

+ SUPER G COATING

This relay blend is designed to increase the quality of green feed. The addition of hairy vetch provides a legume component, fixing nitrogen in the soil. Weather permitting, it can be grazed post-harvest. In order to speed up the dry down time when laying in a swath, no brassicas have been added to this blend.

SEEDING RATE: 12-15 lbs/acre. Add 50 lbs of cereal.

CRUSADER
RYEGRASS

ANNUAL RYEGRASS

HAIRY VETCH



GEMSTONE CATTLE COMPANY

YOUR SOURCE FOR *100% Forage Developed Genetics*

RED CALVO **RIGHT KIND 82D**



**BULLS
NEVER
FED GRAIN**

PCC OH **AXEL 9516A**



**FEET
NEVER
TRIMMED**

**THICKNESS
BRED IN
NOT FED IN**

Annual **Hereford & Angus Bull & Female Sale**

First Wednesday in December - 1PM

Bow Slope Shipping, Brooks, AB

**Bulls Wintered
At NO COST!**



Daniel & Kimberly Doerksen
Cel 403.633.0530
P.O. Box 13 Gem, AB T0J 1M0
Email - daniel@gemstonecattle.com

Arno & Wanda Doerksen
Res 403.641.2498 Cel 403.363.0253
P.O. Box 1 Gem, AB T0J 1M0
Email - arno@gemstonecattle.com

IRRIGATION

IRRIGATION & HIGH MOISTURE REGIONS

Here are some ideas for the grazing operations that have irrigation or in a high moisture area. We have proven that livestock and forage rotations improve soil health, as high-quality grazing for backgrounding, breeding and high milk yields.

HUNTER LEAF TURNIP

+ SUPER G COATING

RELAY BLEND

+ SUPER G COATING

ROCKET FUEL BLEND

+ SUPER G COATING

CRUSADER ITALIAN RYEGRASS

+ SUPER G COATING

Crusader Italian Ryegrass is a dense, fast growing, high-quality diploid Italian ryegrass for forage or hay production. Crusader can be a low-cost alternative annual that will persist in hot, dry climates and will perform optimally under irrigation. When planted in the spring it can be grazed multiple times and grows well into the fall for extended grazing and silage production. Crusader flourishes in a single stand, but also is great interseeded with cereals, forbs and/or clovers for a more diverse forage. This blend is suitable for multiple grazing or silage passes.

SEEDING RATE: 15–20 lbs/acre with adequate moisture.

GREEN SPIRIT ITALIAN RYEGRASS

+ SUPER G COATING

Green Spirit Italian Ryegrass provides excellent quality forage for summer and late fall, depending upon weather and available moisture. Due to its quick regrowth, early development in the spring and prolonged growing period in the fall, it makes a great forage option. Green Spirit is the perfect blend of diploid and tetraploid Italian ryegrasses. The combination of tetraploid and diploid varieties maximizes the advantages each has to offer. Our tetraploid varieties provide high dry-matter production and improved palatability. Our diploid varieties are added for improved persistence for high traffic areas and disease resistance. This blend is suitable for multiple grazing or silage passes.

SEEDING RATE: 15–35 lbs/acre.



Chicory Root
White Lake Colony
Southern Alberta

CRUSADER
RYEGRASS

GREEN SPIRIT
RYEGRASS

CHICORY

TONIC PLANTAIN

ROCKET FUEL BLEND

+ *SUPER G COATING*

The Rocket Fuel Blend is designed for irrigation and high moisture regions. Rocket Fuel is a versatile seed blend to fuel your animals. A combination of chicory, plantain and Italian ryegrass can deliver excellent animal performance. This blend produces a leafy, high-quality feed that can be utilized throughout the grazing season, whenever your perennial pastures begin to decline in feed value. It can be sown with the intent of finishing or backgrounding, or as a high protein feed for lactating beef or dairy cows. Rocket Fuel can be grazed within 50 days if grown under irrigation and seeded in early spring.

When compared to other annual grazing crops, this blend delivers more energy, soluble sugars and pectin's. Less fiber means more rapid and complete digestion. Choice Chicory has a very large tap root system that will add a large amount of organic matter to the soil along with the shorter fibrous roots of the other plants. Clover or oats can be added if desired.

SEEDING RATE: 12-15 lbs/acre.



BLUE ROCK
ANIMAL NUTRITION

**PRACTICAL STRATEGIES FOR
CATTLE NUTRITION AND HEALTH**

Nutrition Consulting Custom Mineral Premix Feed Testing

*Serving innovative and progressive
producers in Western Canada*

1 403 227 2742

1 855 588 5889

Innisfail, Alberta

BLUEROCKNUTRITION.COM

GALLERY PHOTOS:

*ANNUAL BLENDS



*Fall Grazing Purple Top Turnips
Eldon Zimmerman - McBride, BC*

*Crusader Italian Ryegrass - Irrigation
Darren Malmberg - Mossleigh, AB*



*BMR Sorghum Sudangrass & Forage Peas
Tyson McKenzie - Delisle, SK*

*Winter Triticale & Yellow Blossom Sweet Clover
White Lake Colony - Nobleford, AB*





A NEW BREED OF FEED

A new era of high efficiency feed begins now with Enogen™ corn.



For more information about Enogen corn, contact your dealer, your Enogen Technical Sales Representative, or call our Customer Interaction Centre at 1-87-SYNGENTA (1-877-964-3682).

Always read and follow label directions. Enogen™, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of Syngenta Group Company. © 2023 Syngenta.

“BENEFITS OF ENOGEN CORN GO FURTHER THAN JUST YOUR FIELD”

**FINISHING
BEEF CATTLE** 5%↑

Feed efficiency improved by approximately 5% when fed Enogen Feed Corn (EFC) as either dry rolled corn, steam flaked corn or silage.¹

**GROWING
BEEF CATTLE** 5.5%↑

Feed efficiency improved by approximately 5.5% when fed EFC as whole shelled corn or dry rolled corn¹

**DAIRY
COWS** 6%↑

Feed efficiency improved by 6% in several University studies²

¹University of Nebraska-Lincoln, Kansas State University 2013-2018

²Syngenta contract research 2016-2017, 2019



Union Forage is pleased to offer Enogen Corn to your farm operations in British Columbia, Alberta, and Saskatchewan. Enogen is unique from all other corn varieties, as it has a trait that is proven to improve your farm Sustainability with a 5% reduction in Feed Conversion Ratio. If you are interested in learning how Enogen Corn can benefit your livestock operation, we encourage you to get in touch with your local Union Forage representative. Our team is dedicated to providing valuable insights and assistance tailored to your specific needs. Discover the advantages of Enogen Corn for your operation today!



FIELD DAYS

Check out our *EVENTS* page on the website for upcoming tours!



*Swath Grazing Tour
Mitchell Martels'
Carlyle, SK*

Are you overlooking your natural gain?

Fresh water and great nutrition are your cheapest source of gain!



We Specialize in moving water with Solar.
+1 403 638 9711

www.sundogsolarwind.com

Annual Species

Don't see something listed?
Give us a call we can help!
1 877 COW CHOW

FORAGE BRASSICAS:

- Winfred Forage Rape
- Goliath Forage Rape
- Hunter Leaf Turnip
- Graza Forage Radish
- Green Globe Turnip
- Barkant Turnip
- Purple Top Turnip
- T Raptor Turnip
- Barsica Forage Rape
- Daikon Radish

LEGUMES:

- Hairy Vetch
- 4010 Forage Peas
- Berseem Clover
- Crimson Clover
- Balansa Clover
- Persian Clover
- Subterranean Clover
- Yellow Blossom Sweet Clover

FORBS & FORAGES:

- Choice Chicory
- Tonic Plantain
- Phacelia

BULK CEREALS:

- Forage Oats
- Winter Triticale
- Spring Triticale
- Fall Rye
- Soft White Wheat

COOL SEASON GRASSES:

- Green Spirit Italian Ryegrass
- Crusader Italian Ryegrass
- Common Annual Ryegrass

C4 FORAGES:

- Teff Grass
- Buckwheat
- Sunflowers- Black Oil
- BMR Sorghum x Sundangrass
- Red Proso Millet
- Japanese Millet
- Hybrid Pearl Millet

SORGHUM VARIETIES

GW- 400 BMR SWEET MS SORGHUM

SEEDING RATE: 16-20 lbs/acre

BMR SORGHUM SUDAN GRASS GRAZING BLEND

SEEDING RATE: 16-20 lbs/acre

The Impact of Changing Systems

Our farm transition to regenerative practices all started one afternoon as I walked across our yard and had a thought “Why has no one ever told me now farming in my 20th crop season that conventional farming practices are growing a living root for basically 60 days only while the plants are in their vegetative stage. It’s no wonder why our soils are dying.” This led our farm down the trail to where we are today. Since 2019, we have used cover crops and inter-cropping to complete this goal. By using a combination of annual, biennial, and perennial blends planted either in spring or fall we have created many diverse cover crops that have grown in our semi-arid light brown soils at McCord, SK.

I must tell you a little story of its impact on our family. Prior to switching to this Regenerative Practice, the farm seemed to be pulling us apart. What I mean is I was doing the work, and the family had not been as involved. The seeds of change started when that first crop, we planted. Our girls would venture off to look at all the species, insects and array of flowers that were in the cover crop blends but not our monocrops. That first crop fed our entire 200 head herd all winter long swath grazing.

Little did I know my wife was also watching because these cover crops made our farm better in so many aspects. The cover crops reduced our risk to produce feed for our herd every year. Our family has used cover crops in the most severe drought conditions. The key concept that cover cropping has brought to our farm is life. Our fields that were dying are now improving in soil health both biological and nutrients, our animals consuming those cover crops are healthier and each field of diverse plant life has created ecosystems full of life even through multi-year droughts, and lastly the quality of our family life has flourished due to forage productivity, risk management and everyone’s enhanced involvement in the farm.

*Gavelin Farms
Calvin Gavelin*

PERENNIALS

PERENNIAL BLENDS & VARIETIES

Blend Type	Page #
Grazemaster	Page 38
HQ Hay Blend	Page 39
Barricade	Page 39
HY Power Pasture Blend	Page 40
Grazemaster HQ	Page 41
Self Seeder Blend	Page 41
*NEW Salinity Buster Blend	Page 42
*NEW Stockman Dryland Blend	Page 43
Nitromaster V	Page 44
Nitromaster SA	Page 44
AAC Glenview Sainfoin	Page 45
UF Rancher Alfalfa	Page 46
UF Stockade Alfalfa	Page 46
SW4618S Alfalfa	Page 46
SW3407 Alfalfa	Page 48
SW4107 Alfalfa	Page 48

*Poplarview Stock Farms
HQ Hay Blend
Pipestone, MB*



SW4107 & Grazemaster
Alberta, 2022

GRAZEMASTER

+ **YELLOW JACKET COATING**

Grazemaster blend is a very adaptable pasture mix for Western Canada. Several leading-edge grass varieties are incorporated from the world-class Barenbrug breeding program. These grasses provide excellent yield, digestibility and longevity. Grazemaster is formulated to provide a high protein forage for your livestock and can be seeded in combination with a legume blend such as alfalfa or Nitromaster.

SEEDING RATE: 15 lbs/acre for a pure grass stand. 10 lbs/acre when mixed with 8 lbs/acre of a legume blend.

ARSENAL
MEADOW BROME

STF 43
TALL FESCUE

HLR
ORCHARD GRASS

SLENDER
WHEAT GRASS

HQ HAY BLEND

+ **YELLOW JACKET COATING**

This high-quality hay blend will be your one stop shop for your hay shed. Our HQ Hay Blend is comprised of high leaf to stem ratio grasses which provides more leaves for improved digestibility and energy. The alfalfa provides longevity in the stand that you can rely on for many years to come. This blend will produce a high tonnage stand that can be fed to any livestock type.

SEEDING RATE: 15–20 lbs/acre.

STF 43
TALL FESCUE

HLR
ORCHARD GRASS

AAC GLENVIEW
SAINFOIN

UF STOCKADE
ALFALFA

BARRICADE

+ **YELLOW JACKET COATING**

Barricade is a grass blend designed for new planting or inter-seeding into pastures. The grass varieties chosen for this blend can be used in low rainfall areas. Barricade is designed for use in combination with legumes on more marginal dryland. The Yellow Jacket seed coating (see page 51) absorbs nearly 600 times its weight in water, enhancing germination in dry conditions.

SEEDING RATE: 10–15 lbs/acre in combination with a legume blend or alfalfa at 5 lbs/acre.

ARMORY
TALL FESCUE

ARSENAL
MEADOW BROME

INTERMEDIATE
WHEATGRASS

ARTILLERY
SMOOTH BROME

HAMMAN
WHEATGRASS

HY POWER PASTURE BLEND

+ **YELLOW JACKET COATING**

This is our complete blend of our most frequently recommended grasses and legumes. The combination of 4 grasses and 3 legumes makes for a top of the range grazing forage blend. AAC Glenview is the latest non bloating, quick growing Sainfoin from Ag Canada. This blend is best suited for medium to high moisture regions and ideally suited for rotational grazing management. The diversity of legumes will improve soil health, increase the season of green growth and add above average feed quality to your pastures. It can be harvested as a high protein, high energy stand.

SEEDING RATE: 15–25 lbs/acre.

ARSENAL
MEADOW BROME

STF 43
TALL FESCUE

HLR
ORCHARD GRASS

SLENDER
WHEATGRASS

AAC GLENVIEW
SAINFOIN

UF STOCKADE
ALFALFA

CICER
MILKVETCH



Hy Power Pasture Blend
Madden, AB

GRAZEMASTER HQ

+ **YELLOW JACKET COATING**

Grazemaster HQ is a formulation of forage grass for beef and dairy operations. STF 43 soft leaf tall fescue increases overall dry matter intake compared to rough-leaf tall fescue. The HLR- high leaf ratio orchard grass varieties maintain their productivity even under tight grazing/haying rotations. The varieties are chosen to provide rapid weight gain in beef and lactating dairy cows. This blend can also work well in situations where reseeding grass is needed to extend an alfalfa hay stand. Mixed in with Glenview Sainfoin it will provide a high-quality cattle feed to suit most operations. It should be grown in moderate to higher rainfall areas and performs excellent under irrigation across Western Canada.

SEEDING RATE: 15–25 lbs/acre. Adjust seeding rate if adding legumes to the blend.

HLR
ORCHARD GRASS

STF 43
TALL FESCUE

SELF SEEDER BLEND

This is a blend of non-coated, non-inoculated legumes such as: AAC Glenview Sainfoin, Yellow Blossom Sweet Clover, Alsike Clover, Birdsfoot Trefoil, Cicer Milkvetch and Red Clover.

The idea is to allow the cows to distribute the seed on pastureland that is too rough for the use of conventional seeding equipment.

***Available in 55LB bags. Give us a call to arrange pick up at a local tradeshow this winter!**

For more information visit our website unionforage.com/articles.

“Let cattle do the seeding”



SALINITY BUSTER BLEND

**SALT TOLERANT + INOCULANT*

Types of saline areas vary and so do strategies to regenerate them. Saline Buster Blend is a perennial grass/legume mix to establish, stabilize, and improve the production potential of a saline area.

To attempt to regenerate these areas seed in excess of 50-200 feet, around the most affected area.

Seeding timing can be late fall when soils at seeding depth are 2 degrees celcius to prevent fall germination or in spring. In spring seed after the area has dried up. Preferably right after a rainfall event.

A low seeding rate of a barley cover crop can be considered if a cover crop is desired or wind erosion is a concern.

Beware quackgrass is in this blend for its salt tolerance and creeping roots

SEEDING RATE: 15 – 20 lbs/acre.

MEADOW BROME

SLENDER
WHEATGRASS

SW4618S ALFALFA

STF 43
TALL FESCUE

SWEET CLOVER

UF RANCHER
ALFALFA

BIRDSFOOT
TREFOIL

ALSIKE CLOVER

QUACKGRASS



STOCKMASTER DRYLAND BLEND

+ INOCULANT

This blend contains the toughest of the dryland grasses and legumes we can combine to best perform in the low rainfall areas across Western Canada. Stockmaster Dryland Blend protects your pastures against drought as it contains the latest varieties of forages selected for germination, establishment, synergy and growth under low rainfall. With rotational grazing management practices this blend will help you manage your grazing land to its greatest potential.

SEEDING RATE: 15 – 20 lbs/acre.

ARMORY
TALL FESCUE

ARSENAL
MEADOW BROME

INTERMEDIATE
WHEATGRASS

ARTILLERY
SMOOTH BROME

HAMMON
WHEATGRASS

CICER
MILKVETCH

AAC GLENVIEW
SAINFOIN

UF STOCKADE
ALFALFA

“I’ve appreciated the time and effort the Union Forage team puts into supplying a wide variety of quality seeds that work for a variety of needs on the farm”

Eldon Zimmerman

NITROMASTER V

+ INOCULANT

The sainfoin and cicer in Nitromaster V are non-bloating legumes that fix nitrogen and allow for extended grazing, as they hold their leaves after freezing. The addition of legumes provides longevity into a grass stand. It is a blend of perennial drought tolerant legumes that improve protein production in pasture and fix nitrogen in the soil, reducing the need for nitrogen fertilization. Nitromaster V is a great addition to any grass seed blend.

SEEDING RATE: 5–8 lbs/acre. Recommended establishment is with 10 lbs/acre of a grass blend like Barricade or Grazemaster.

AAC GLENVIEW
SAINFOIN

UF STOCKADE
ALFAFA

CICER
MILKVETCH

NITROMASTER SA

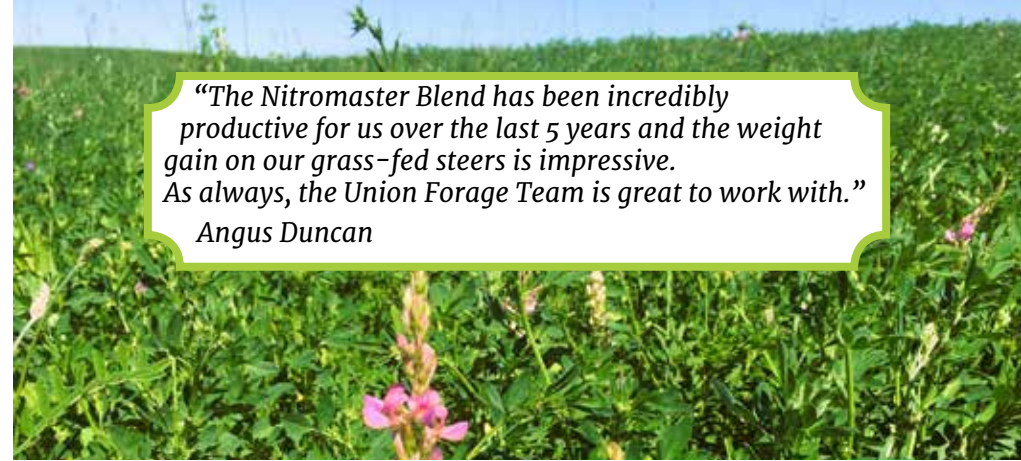
+ INOCULANT

Nitromaster SA is a legume blend of alfalfa and AAC Glenview Sainfoin. This blend can be used in a mix with other grass varieties to establish an excellent perennial pasture. Nitromaster SA can also be used to improve an existing pasture stand when drilled in. You may establish a pure legume stand for haying or grazing. The combination of sainfoin and alfalfa is effective for managing bloat when grazing or haying. Increase seeding rates if establishing a pure stand.

SEEDING RATE: 6–10 lbs/acre. Add 8–10 lbs/acre of a grass blend like Barricade or Grazemaster for a more diverse forage stand.

AAC GLENVIEW
SAINFOIN

UF STOCKADE
ALFAFA



“The Nitromaster Blend has been incredibly productive for us over the last 5 years and the weight gain on our grass-fed steers is impressive. As always, the Union Forage Team is great to work with.”
Angus Duncan

AAC GLENVIEW SAINFOIN

+ INOCULANT

AAC Glenview Sainfoin is a non-bloating legume that may be used for grazing or hay production. A 15% plant population with alfalfa can prevent bloat when grazed. AAC Glenview has higher yields than Nova and higher grazing tolerance than other sainfoin cultivars. AAC Glenview Sainfoin delivers on the breeding goals of a 10 year development project to (i) increase survival in mixed stands vs. older varieties; (ii) adaptable frequent cutting; (iii) improved regrowth over older varieties; (iv) improved forage yield. Research on AAC Glenview Sainfoin concluded that it can produce higher biomass yields than Nova and sometimes produce as much yield as high yielding alfalfa cultivars. It can also stay in alfalfa pasture in higher proportions than Nova for 3–4 years and the mixed stands out-yield pure alfalfa stands. Unlike alfalfa, AAC Glenview Sainfoin will hold onto its leaves and nutritional value post freeze up. Periodically leave AAC Glenview to mature for some seed set to guarantee greatest longevity.

SEEDING RATE: 20+ lbs/acre. Sow with other grasses or legume blends or, use as a perennial pasture legume for haying and grazing.

UF RANCHER ALFALFA

+ INOCULANT

UF Rancher Alfalfa is a creeping rooted alfalfa. Well suited to grazing and haying in a 1-2-cut system. It is a hardy alfalfa. It can increase future stand production if given a significant rest heading into the fall.

SEEDING RATE: 4–10 lbs/acre. Dependent on blend and irrigation vs. dryland.

UF STOCKADE ALFALFA

+ INOCULANT

UF Duramaster Alfalfa is a deep tap-rooted alfalfa. It works well for a two-cut, longer-term hay production system. It is also very grazing tolerant and productive. It comes from Canadian breeding programs so has excellent hardiness and longevity.

SEEDING RATE: 4–10 lbs/acre. Dependent on blend and irrigation vs. dryland.

SW4618S ALFALFA

*SALT TOLERANT + INOCULANT

SW4618S is a high-yielding, fall dormancy four variety, bred in saline growing conditions and selected for the ability to maintain improved production of hay. Suitable for saline soils where irrigation water and/or soil contains MODERATE salt concentration. Maintains good yield in saline growing conditions, of high quality and quantity of hay or haylage.

Fall Dormancy – 4 | Winter Hardiness – Hardy

SEEDING RATE: 5 – 20 lbs/acre.



Your best yields start with Alfalfa Partners™ elite varieties

S&W's Alfalfa Partners brand combines strong defensive characteristics with aggressive yield outputs to maximize your returns. Bred from industry leading genetics, Alfalfa Partners elite varieties offer award winning high yields, salt tolerance, winter-hardiness, and the disease resistance you need in Western Canada. Ask Union Forage for Alfalfa Partners winterhardy **SW4107** or **SW3407**, or new **SW4618S** for saline soils.

Available at Union Forage 1.877.269.2469 | AlfalfaPartners.com



Alfalfa Partners™
A BRAND OF S&W SEED COMPANY



SW3407 HIGH YIELD ALFALFA

+ INOCULANT

SW3407 is a dormancy 3 alfalfa. It is a high-yielding, high quality variety with excellent pest resistance. Grow this variety in wet soils because of its exceptional resistance to both races of *Aphanomyces* root rot. Expect consistent top yields for quality hay. This variety has excellent forage quality when coupled with moderate lodging tolerance not only improves yield, cutability and quality but also improves timing of each cut to ensure good quality crop is obtained.

Fall Dormancy – 3 | Winter Hardiness – Very Hardy

SEEDING RATE: 5 – 20 lbs/acre.

SW4107 HIGH YIELD ALFALFA

+ INOCULANT

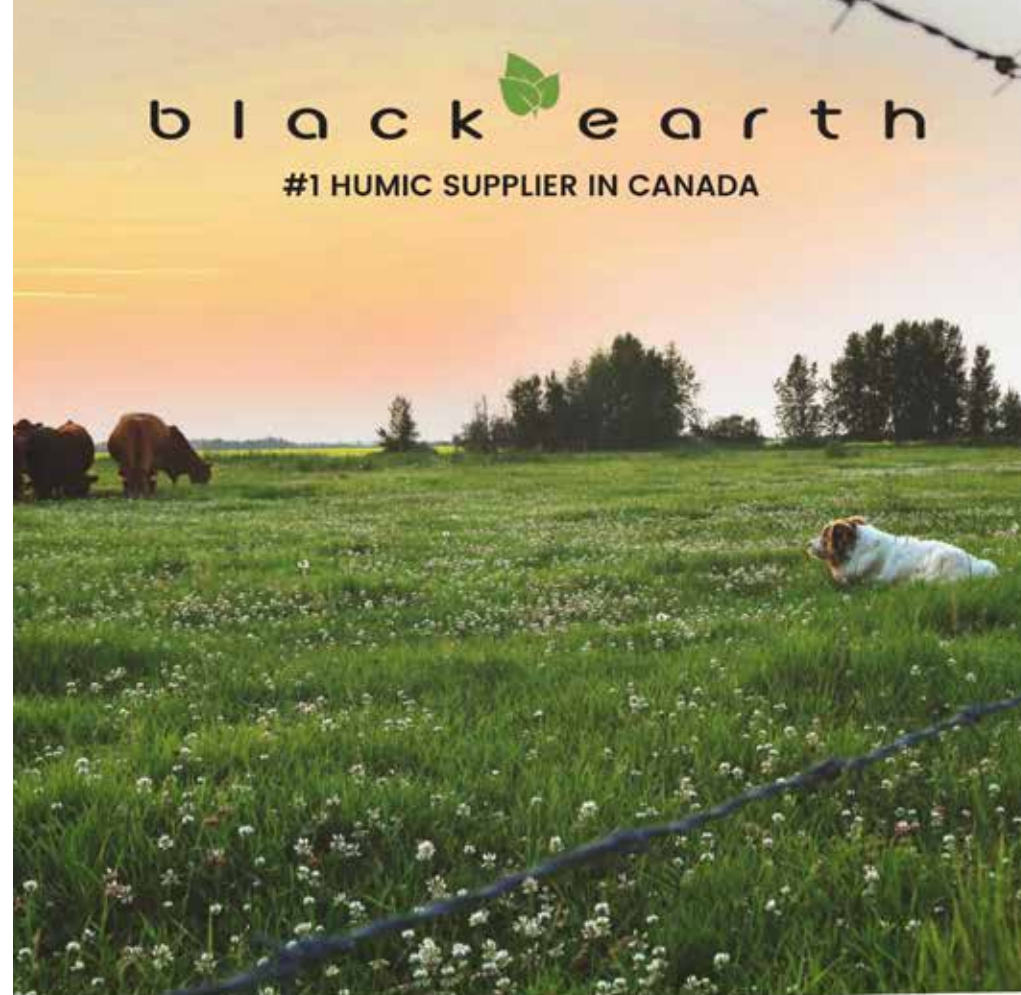
SW4107 is a dormancy 4 alfalfa with high yield potential, good forage quality and agronomic character. It is unmatched in the industry. It is a broadly adapted seed with a wide germplasm base and well-suited to fields with variable drainage where root rot resistance is needed. It is highly resistant to seven major alfalfa pests and has an above-average performance and forage quality. It can be planted on a wide range of soils to extend farm production of hay.

Fall Dormancy – 4 | Winter Hardiness – Very Hardy

SEEDING RATE: 5 – 20 lbs/acre.

black  earth

#1 HUMIC SUPPLIER IN CANADA



YOUR GROWTH PARTNERS TO HELP
IMPROVE YOUR SOIL AND PLANT HEALTH

KATELYN MILLER
KMILLER@BLACKEARTH.COM | 403-796-2031

Canadian Sales Rep.

Perennial Species

PERENNIAL GRASSES:

- STF 43 Tall Fescue
- Baridana Orchard Grass
- HLR Orchard Grass
- Common Orchard Grass
- Meadow Brome
- Smooth Brome
- Hybrid Brome
- Intermediate Wheatgrass
- Slender Wheatgrass
- Crested Wheatgrass
- Common Timothy
- Perennial Ryegrass
- Meadow Fescue
- Kentucky Bluegrass
- Creeping Red Fescue
- Reed Canary Grass

PERENNIAL LEGUMES:

- Cicer Milk Vetch
- Red Clover
- Red/White Renew Clover
- White Clover
- Alsike Clover
- Birdsfoot Trefoil
- AC Yellow Head Alfalfa
- UF Stockade Alfalfa
- UF Rancher Alfalfa
- AAC Glenview Sainfoin

Angus Duncan
HQ Hay Blend
Cochrane, AB

Don't see something listed?

Give us a call we can help!

1 877 COW CHOW

RESOURCES

BEST FORAGE MANAGEMENT TOOLS

Blend Type	Page #
Government Funding	Page 53
About Seed Coatings	Page 54
Agronomy	Page 56
Soil Health Principles	Page 57
Grazing Management	Page 58
Dormant Seeding	Page 59
Regenerative Systems	Page 61

*Mitchell Martel
Swath Grazing Blend
Carlyle, SK*

Government Funding For Forages And Adaptively Managed Grazing:

Project funds are available for:

- Seeding longer growing season biodiverse cover crops that create green cover on soil longer.
- Seeding new perennial forage stands with higher legume amounts for resilience and yield.
- Rejuvenating older forage stands by adding 50%+ legume seed.
- Buying fencing and water supplies to use in adopting a higher level of grazing management.

Call Union Forage to see if you could qualify for funding and who in your province delivers the project.

*Addition of Cicer Milk Vetch to existing perennial stand through mineral feeding
Rosetown Colony- SK*



SEED COATINGS

Seed coatings like Yellow Jacket and Super G protect the seed and attract and hold moisture to ensure seedling establishment. These coatings also include micro nutrient packs to ensure early plant health. Colour is added to help you more easily establish seed depth. Legumes in Union Forage seed blends are coated and inoculated with rhizobia, the nitrogen fixing organisms that live in a symbiotic relationship with the plant roots. Nitrogen fixing rhizobia increase soil fertility for future crop rotations and provide nutrients to support the grasses usually grown in combination with legume annual and perennial pasture mixtures. Union Forage Super G coatings and Barenbrug Yellow Jacket coatings are also inoculated with mycorrhizal fungi which directly infects plant roots. 90% of plant species benefit from the symbiotic relationship with mycorrhizal fungi which provide them with soil derived nutrients like Phosphate and Zinc. The plant returns the favour by providing the fungi with its sole source of nutrition in the form of liquid carbon sugars.

SUPER G COATINGS

Super G Seed Coating includes: a super absorbent to absorb moisture and aid in germination, micro nutrients including zinc to provide instant fertilizer which will be readily available for early growth, mycorrhizal fungi depending on the seed blend, nitrogen fixing rhizobia in the legume blends, and finally, a green colorant to aid in confirming proper seed depth.

Barenbrug is an international leader in innovative seed coatings. Its scientists are involved in research facilities world-wide to further enhance seed coating technology and bring solutions to the forage industry. Yellow Jacket seed coating is available exclusively on all Barenbrug products.

Yellow Jacket is a proprietary seed coating containing a totally natural product made from starch. This active ingredient in Yellow Jacket holds up to 600 times its weight in water and nutrients. Research at New Mexico State University, North Carolina State University, and Texas A&M has proven that seed coated with Yellow Jacket established faster under less water and produced more forage than uncoated seed. Yellow Jacket seed greatly increases seeding establishment under dry land conditions where irrigation is not available and provides higher yields while preserving our precious water resources. Yellow Jacket is like having an absorbent sponge or water reservoir around each individual seed. Once water is applied or moisture is available from rain, the coating holds both moisture and nutrients around the seed, making it available as needed for germination and establishment. Without Yellow Jacket, raw seed can quickly dry out, resulting in a need for more frequent irrigation or reliable rains.



Keep in mind

AGRONOMY

These are high performance plants that depend on and respond to adequate nutrients. Test soil before planting. If irrigated, maintain soil moisture during stand establishment; back off to promote deep rooting. Fertilize to meet crop needs. High nitrogen rates and manured soils can require additional management considerations to avoid potential nitrate toxicity, especially under fall grazing regimes. Work with your agronomist to ensure adequate fertility. Whether a perennial or annual, both require adequate soil nutrition. Consult with your local agronomist to identify the best solution for your farm.

RIGHT CROP, RIGHT TIME, RIGHT CONDITION

Choose the crop type and variety to fit the type of livestock. Grazing brassicas are an essential component of high production annual grazing systems, Agronomically, be sure to rotate your brassica plantings to avoid disease. Flea beetles can be a pest of a forage brassica. Watch for damage for the first 3-4 weeks after planting. A pesticide may be required to prevent crop damage. Consult your agronomist to find the right pairings for you.

GRAZING: OFF TO A GOOD START

Acclimate cattle slowly to this high quality feed. Feed test and discuss with your Union Forage specialist to maximize potential and manage feeding issues.

SHAPE AND BALANCE TO MAXIMIZE VALUE

We can help you to develop a grazing strategy that optimizes cattle performance and crop production. Forage brassicas provide exceptional nutritional quality. As a general rule to optimize animal health, balance the brassica component of animal intake to maximum of 50%.

BUILD SOIL PRODUCTIVITY

Brassica species require adequate crop rotation to avoid disease build up. Use best management practices/rotation as you would for canola.



The return on investment and productivity of a well-managed perennial forage stand is difficult to beat.

A perennial pasture requires a significant upfront investment, but when you amortize that investment over 10 or more years, it is an excellent option.

A good perennial pasture should include a mixture of nutrient dense grass varieties suited to your geography and soil type, plus a combination of legumes to fix nitrogen and improve the stand longevity. The legumes should include sainfoin and vetch in the mix to reduce the risk of bloat from alfalfa. Ideally, you should rotate cattle through paddocks allowing rest periods after grazing. Avoid overgrazing a perennial pasture going into fall, as this will kill most of your legumes and reduce the lifetime and productivity of the stand.

Six Basic Principles of Soil Health

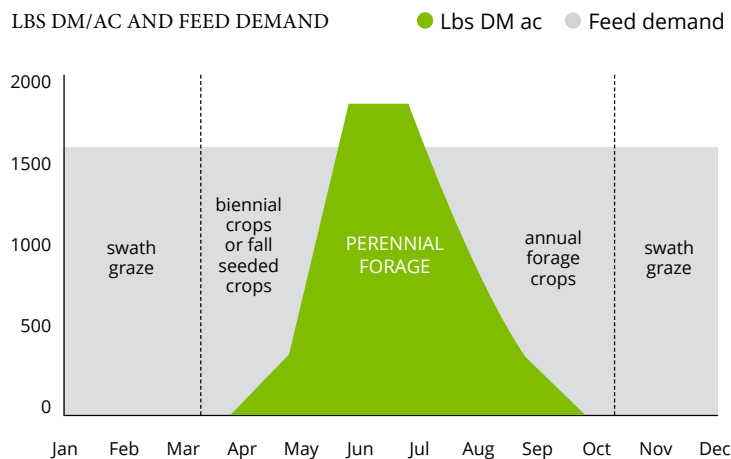
- I. Context of your operation and economics.
- II. Ensure minimal to zero disturbance.
- III. Keep soil covered with soil armour.
- IV. Keep roots growing in the soil as long as possible.
- V. Increase plant diversity and crop rotations.
- VI. Integrate livestock.

While housing millions of microbes in a nutrient cycling ecosystem, healthy soil filters and stores water. This reduces the impact of flooding and drought. Mycorrhizal fungi play an important role in soil health. These fungi seek out phosphates and other nutrients to bring back to the plants. They also connect plants together, allowing for a nutrient exchange among them. Mycorrhizal fungi protect plants from fungal diseases and other root-feeding microorganisms, all while producing glomalin, which is important in creating soil structure and increasing space for air and water.

a systems approach to:

CATTLE GRAZING & MANAGEMENT

To effectively graze year round, it takes more than forage production. Summer and winter watering systems and use of electric fencing to manage stocking density are critical elements required to maximize the innate grazing ability of cattle. Then we can consider where we have excess feed that may be stockpiled and where we need to fill the feed demand gap with other forage options. Planning, creating flexible options, monitoring results, and management are key ingredients to successful outcomes to extended grazing.



AN EXAMPLE FOR A COW/CALF ENTERPRISE

GOAL The average full year cost/cow/day for feed, pasture and water will be less than \$1.50 (includes calf with cow from May to November). *How?*

- 1 Minimize use of equipment
- 2 Minimize hauling feed to cows
- 3 Maximize cow's ability to graze
- 4 Use annual and perennial forages, fall seeded crops, stubble grazing and biennial crops to help fill the early spring and late fall feed demand gap
- 5 Use combination of stockpiled perennials/annuals, bale grazing, silage, swath grazing or corn grazing in winter months

DORMANT SEEDING

Dormant seeding is the practice of broadcast seeding or sod seeding in the fall or early spring when the soil is already frozen or below 2 degrees C. To ensure the seed does not germinate before spring, there must be a constant soil temperature below 2 degrees Celsius. Winter chinooks may warm soil above this temperature allowing seed to germinate and subsequently freeze. The advantage of dormant seeding is the availability of spring moisture critical to germination and establishment.

The alternative is to seed early in the spring and where grasses are already established, using glyphosate to suppress the grass. Legumes also germinate at lower temperatures and will begin growth early in the spring. Species such as birdsfoot trefoil, cicer milk vetch, Glenview sainfoin, alfalfa, and clovers tend to be successful because of their harder seed coat. Cicer Milkvetch seed is scarified to improve germination, but this can cause it to die during winter. Legumes should still be inoculated prior to seeding.

- If dormant seeding into sod, the seed needs to be shallow or it will not survive
- Fertility is critical, phosphate is usually deficient and should be banded vs. added with seed
- Recommend increasing seeding rates by 25% when dormant seeding





What Drives Your Regenerative System?

- Diversity
- Crop Residue
- Cover & Companion Crops (*annual or perennial*)
- Soil Health
- Nutrient Recycling
- Livestock Integration
- Livestock Husbandry
- Water Infiltration
- Moisture Efficiency
- Solar Panel (forages)
- Rest & Recovery (soil and pastures)
- Family Time
- Financial Management- focuses family as top priority to make regenerative ag work.
- Allowing the System to Work

The Yellow Bag Promise

In partnership with Union Forage at Barenbrug, we give you the solutions you need when you need them. We provide forage seed backed by years cutting edge research and a team of experienced professionals to go above and beyond your needs.

Learn more at
barusa.com





Visit our interactive map at unionforage.com
to find a dealer near you!

BRITISH COLUMBIA

HOUSTON	6S Family Farm Rick & Joy Stephens 250 845 8549 • joy@6sfamilyfarm.ca
MCBRIDE	Joyway Farms Eldon Zimmerman 250 569 7204 • eldonzim@icloud.com
VERNON	Forage Based Solutions Mike Witt 250 558 9577 • mike@foragebased.com • www.foragebased.com

ALBERTA

BARRHEAD	Nutrisource/Dairytech/Bullseye Richard Bouwman 780 284 9624 • richard.bouwman@nutrisource.ca morethanjustfeed.ca
BARRHEAD	Canadian Hay & Silage Ltd. Ard Doornbos 780 379 6444 • ard@canadianhayandsilage.com canadianhayandsilage.com
BYEMOOR	Wallaby Ag Inc. Rebekah Krause 403 741 9714 • wallabyag@gmail.com
CALGARY	Union Forage Warehouse Geoff Barker 587 997 1436 • geoff@unionforage.com • unionforage.com
COALDALE	Nutrisource/Dairytech/Bullseye Ken Van Driesten 587 727 0433 • ken.vandriesten@mtjf.ca • morethanjustfeed.ca
CORONATION	Maureen Black 403 578 8185 • mblackag@gmail.com

DUCHESS	66 Ranch Ltd. Katie Cowie & Kelsey Campbell 403 501 8681 • prairierootsresourceco@gmail.com
FORT MACLEOD	Beusekom Farms Ltd Arnold Beusekom 403 892 3861 • beusekom.a@gmail.com
GRASSY LAKE	Corns Seeds Whitney Corns 403 360 0833 • sales@cornsseeds.com • cornsseeds.com
HANNA	Core Ag Brad Richardson 403 854 6327 • brad.richardson@coreag.ca • coreag.ca
HARDISTY	Prairie Land and Cattle Ben Stuart 780 888 7303 • ben@unionforage.com • unionforage.com
HAY LAKES	Sych Homestead Inc. Dan & Taylor Sych 780 608 0850 • dan@sychhomestead.ca 780 878 5119 • taylor@sychhomestead.ca
INNISFAIL	Central Alberta Co-op Heather Osterhout 403 227 3466 • h.osterhout@centralab.coop centralalbertaco-op.crs
IRMA	Lingley Livestock Steve Lingley 780 806 0347 • lingleylivestock@gmail.com
LACOMBE	Central Alberta Co-op Geoff Tatlow 403 782 2232 • g.tatlow@centralab.coop
MANNING	Jackknife Creek Land and Cattle Jolene Noble 780 887 9446 • jclcfarms@gmail.com
MEDICINE HAT	Ag Plus Mechanical Kevin Harrigan 306 662 7038 • kevinh@agplus.ca
MILO	Lazy M Farms Chad Monner 403 485 5980 • chadmonner@hotmail.com
PICTURE BUTTE	K3 Seeds Klaas Slomp 403 634 5582 sales@k3seeds.com
PONOKA	Nutrisource/Dairytech/Bullseye Ken Van Driesten 587 727 0433 • ken.vandriesten@mtjf.ca • morethanjustfeed.ca
SANGUDO	JH Bar Ranch Jay Hagel 403 874 1615 • jay.hagel@hotmail.com
ST. PAUL	Mistol Seeds Terry & Dave Mistol 780 645 5560 • mistolseeds@mcsnet.ca mistolseeds.ca
STETTLER	Stettler Auction Mart Gary Rairdan 403 740 6823 • 403 742 2368 • gary@stettlerauction.ab.ca stettlerauction.ab.ca
STRATHMORE	Core Ag Mike Hira 403 992 0016 • mike.hira@coreag.ca coreag.ca
TROCHU	Ranaman Ranch Randy & Amanda Wunsch 403 443 8396 • ranamanranch@gmail.com
VERMILION	Ranching Systems Sean McGrath 780 853 9673 • sean@ranchingsystems.com • ranchingsystems.com
WARBURG	Warburg Seed Cleaning Coop Tom Luethi 780 848 2365 • warscp@gmail.com • warburgseed.com

SASKATCHEWAN

CARLYLE	Mitchell Martel 306 527 7243 • mj.martel@sasktel.net
EARL GREY	Quinton Schmidt 306.718.7090 • quintonschmidt1@gmail.com
ESTEVAN	Southern Plains Co-op Jason MacDonald 306 461 8830 • j.macdonald@southernplainscoop.com
FLEMING	Trevor & Cindy Green (T) 306 435 7862 (C) 306 435 9024 • trevor.green444@gmail.com
GRANDORA	Bar A Simmentals Mike Millar 306 220 2265 • mikemillar@sasktel.net
GRAVELBOURG	Hawks Agro Vicki Strieb 306 648 3110 • vicki.strieb@hawksagro.com
LEADER	Travis Noble 403 979 1699 • xbargrasscattle@hotmail.com
LOREBURN	Riverbank Ranches Matt Hauberg 306 867 7938 • matt.hauberg89@gmail.com
MANOR	KBI Seed Processing Lloyd Beutler 306 630 8660 • customerservice@kbiseedprocessing.ca
MERVIN	McMac Ranching Trent Macnab & Mark McNinch (T) 306 845 7373 • (M) 306 845 8036 • mcmacranching@hotmail.com
MINTON	D&R Prairie Supplies Roger Meyers 306 221 1558 • roger@unionforage.com • unionforage.com
MOOSE JAW	Bar Over HC Livestock Kelly & Julie- Anne Howe 306 313 2129 • khowe@baroverhc.ca
NEILBURG	Brady Segin 780 288 8640 • brady@ygconcrete.com
NORQUAY	Norquay Coop Loren Rayner 306 621 9771(c) • 306 594 1022 • loren.rayner@norquaycoop.ca
SWIFT CURRENT	S & R Gerbrandt Farms Robyn Gerbrandt 306 291 0979 • srgerbrandt@gmail.com
WARMAN	Nutrisource/Dairytech/Bullseye Travis Fehr 306 270 4642 • travis.fehr@nutrisource.ca • morethanjustfeed.ca
WHITEWOOD	High Plains Ranch Supply Ryan Beierbach 306 532 4809 • shophighplains@me.com
YORKTON	Blue Rock Cattle Company Ben Stuart 780 888 7303 • ben@unionforage.com • unionforage.com

MANITOBA

ANOLA	Edie Creek Angus Jonathan Bouw 204 471 4696 • info@ediecreekangus.com • ediecreekangus.com
ASHERN	2B Land and Cattle Jason Bednarek 204 768 0184 • hawker2b@2blandandcattle.ca
DAUPHIN	Fox Technologies Ben Fox 204 638 4181 (c) 204 647 5060 • justamereranch@gmail.com
GRAND POINTE-	Nutrisource/Dairytech/Bullseye Chris Elias 204 408 5312 • chris.elias@nutrisource.ca • morethanjustfeed.ca
INWOOD	Michael Mott Livestock Michael Mott 204 861 0319 • bar_mlivestock@hotmail.com
PORTAGE LA PRAIRIE	Charlie Murray 204 903 0045 • cm.cattle@gmail.com
RAPID CITY	Bootsman Ag Enterprises Joey Bootsman 204 720 8386 • joeybootsman@hotmail.com
ROBLIN	3K Holdings Darren Keown 204 937 7333 • darren@unionforage.com • unionforage.com
SOURIS	Perkin Seed & Soil Scott & Darryl Perkin 204 741 0955 • 204 534 8137 • scott@perkinlandandcattle.com • perkinlandandcattle.com

ONTARIO

EMO	Emo Feed Service Ltd. John Sawatzky & Johannes Gerber 807 482 2017 • john@emofeeds.com
------------	--

MONTANA

TURNER	PJ & Tricia Kimmel 406 301 2824 (PJ) • 406 399 3909 (Tricia) kimmel@kimmelranch.com • kimmelranch.com
---------------	--

MINNESOTA

ROCHESTER	Stable Feed Mary Hartman 507 487 2337 • mary.hartman@stablefeed.com
------------------	---

Interested in becoming a dealer?

Give us a call
1 877 COW CHOW

UNION FORAGE

GRAEME FINN

President & Senior Forage Specialist Madden, Alberta
1 403 312 2240 • graeme@unionforage.com

GEOFF BARKER

General Manager Calgary, Alberta
1 587 997 1436 • 1 403 390 9777 (cell) • geoff@unionforage.com

AMBER MCNISH

Forage Specialist Pierson, Manitoba
1 204 264 0609 • amber@unionforage.com

GRANT LASTIWKA

Forage Specialist Innisfail, Alberta
1 403 350 6394 • grant@unionforage.com

LUKE VERHOEVE

Corn Specialist Calgary, Alberta
1 587 894 4194 • luke@unionforage.com

BEN STUART

Forage Specialist Yorkton, Saskatchewan
1 780 888 7303 • ben@unionforage.com

ROGER MEYERS

Forage Specialist Minton, Saskatchewan
1 306 221 1558 • roger@unionforage.com

DARREN KEOWN

Business Development Roblin, Manitoba
1 204 937 7333 • darren@unionforage.com

BRENT DIFLEY

Business Development & Corn Specialist Calgary, Alberta
1 587 226 9255 • brent@unionforage.com

KEN VAN DRIESTEN

Dairy Forage Specialist
1 587 727 0433 • ken.vandriesten@mtjf.ca

DAVID BEKKERING

Corn Specialist Taber, Alberta
1 403 634 3448 • david@unionforage.com



[@unionforage](https://twitter.com/unionforage)



facebook.com/unionforage

1 877 COW CHOW
UNIONFORAGE.COM

UNION FORAGE LTD.
Unit 120 5423 61st Avenue SE
Calgary, AB T2C 5N7