

IT ALL STARTS HERE.

SEED GUIDE 2022

GET IT. **UFA** DONE.



CORN
CANOLA

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FROM THE GROUND UP.

A good year starts long before the harvest is in the bin. It starts the morning after last year's harvest. It starts with making the right decisions about what to plant, what spray and who you will rely on for advice.

Your Customer Account Manager is dedicated to helping you plan for a better yield. Our boots-on-the-ground understanding of local growing conditions, seed varieties and crop protection product recommendations that fit your goals and operation.

CAMs work to get every bushel of potential out of your field.

Partnering with us can also pay dividends. In the past three years we have paid \$42.3 million in patronage, including dividends on seed purchases back to members. The 2021 patronage declaration of \$14.2 million included a 1.6% return on canola and corn seed, putting money back in Western Canadian Farmer's pockets.

EXPERIENCE THE DEKALB TARGETED PLANT POPULATION ADVANTAGE.

Canola Council of Canada¹ research has shown that a targeted plant population of 5 to 8 plants/ft² is the ideal way to maintain an optimal yield. Any less, and you leave your field more vulnerable to weeds. Any more and you risk potential thinner, less productive plants. To put it another way, 5 to 8 plants/ft² is the perfect way to set your canola crop up for success. DEKALB's recommended seeding rate is 10 seeds per square foot. With average canola survivability in Western Canada ranging from 50-80%, this seeding rate supports a targeted plant population of 5-8 plants per square foot.

There are risks when managing plant stands with too low and too high plant densities.



RISKS OF LOW PLANT POPULATIONS:

- **Non-uniform plant stand** - this may be affected by the seeding practices or the field variability. A low emergence rate could be the cause of low plant density. In fields that historically have patchy stands, a low seeding rate can compound the issue.
- **Weed control** – low plant densities allow more room for weeds to grow. Vigilant weed management will be important if plant densities are lower.²
- **Uneven maturity** – low plant stands may have increased branching. This can cause delayed maturity since branches flower and mature later than the main stem. In a short growing season, maturity may be an important factor to consider.²
- **Extended flowering** – time due to increased branching in low plant populations can make it difficult to stage and time a proper sclerotinia fungicide application.

RISKS OF HIGH PLANT POPULATIONS:

- **Lodging** – high plant densities (more than 14 plants per square foot) can result in increased lodging as stems are thin and pods may be concentrated at the top of the plant.³
- **Disease** – high plant densities can be more at risk for yield loss due to sclerotinia. A thick canopy and increased lodging can create ideal conditions for this disease.⁴
- **Internal crop competition** – too many plants condensed in a row can lead to crop competition where plants compete for available resources to the point where some plants are thinned out.

OPTIMAL SEEDING RATES. IT'S NOT ABOUT BAG WEIGHT. IT'S ABOUT PRECISION.

DEKALB has a long history of packaging by seed count with corn and soybeans and now we're applying the same methods of precision to canola seed. Using their unique ability to accurately measure TSW (thousand seed weight), they can ensure that every bag of DEKALB® canola contains no less than 4.25M seeds - the optimal target plant population for every 10 acres. Just choose the hybrid that's right for you and you're on your way to optimizing the performance of your DEKALB canola.

They count the seeds so you can make the seeds count.

PACKAGING

Regardless of TSW every bag of DEKALB canola will have no less than 4.25 million seeds per bag and is recommended to seed at 10 acres per bag. Simply divide the total pounds of the bag by 10 to get your seeding rate. Example: Bag weight is 45 lbs. 45 lbs/10 acres = 4.5 lbs/acre seeding rate.

HOW TO CALCULATE THIS BAG'S SEEDING RATE



*CALCULATIONS ARE BASED ON A CANOLA SURVIVABILITY OF 50-80%.



PLANNING

With every bag equal to 10 acres you can know in advance the exact amount of seed you need for your canola acres. DEKALB canola will be available in:

- 4.25M seeds/bag. Seeds 10 ac./bag
- 85M seeds/tote. Seeds 200 ac./tote
- 170M seeds/SeedPak. Seeds 400 ac./SeedPak



Scan for more
information

Sources:

- 1 Canola Council of Canada. Canola Encyclopedia. <https://www.canolacouncil.org/canola-encyclopedia/plant-establishment/seeding-rate/>
- 2 Canola Council of Canada. Target plant density. <https://www.canolacouncil.org/calculator/target-plant-density>
- 3 Canola Council of Canada. 2020. Why does canola lodge?
In Canola Watch August 12, 2020. <https://www.canolacouncil.org/canola-watch/2020/08/12/why-does-canola-lodge/>
- 4 Canola Council of Canada. Canola Encyclopedia. <https://www.canolacouncil.org/canola-encyclopedia/>

A man with glasses and a dark blue polo shirt is standing in a field of yellow canola plants. He is looking down at a plant he is holding with both hands. The background is a clear blue sky and more canola plants.

**ADJUSTING YOUR SEEDING RATE BASED ON
SEED SIZE IS AS IMPORTANT AS YOUR VARIETY CHOICE.
IT WILL IMPACT YOUR PLANTS/FT², MATURITY,
DISEASE PRESSURE AND YIELD.**

KEITH MUNRO > SALES SUPPORT SPECIALIST, AIRDRIE

STAY AHEAD OF BLACKLEG.

If you grow canola, you've done battle with blackleg. First discovered on the Prairies in the mid-1970s, blackleg remains a disease of concern for canola growers and the canola export market.

The first cultivars to carry robust genetic resistance to *Leptosphaeria maculans*, the more virulent form of blackleg, were introduced in the early 1990s. Today, it's pretty much table stakes for any new canola hybrid to carry an R-rating for blackleg, and breeders are even dialing in resistance mechanisms to tackle specific races of the disease.

AIRBORNE BLACKLEG EFFICACY ON INVIGOR® HYBRID CANOLA¹



UNTREATED



VERCORAS TREATED

But genetic resistance is only one avenue of defense against blackleg. Seed treatments are another and BASF has a new offering that takes the fight to blackleg.

New Vercoras^{®1} is the first seed treatment designed to control airborne blackleg through the critical early-season infection period. This is a major advance in blackleg management because primary infection occurs when spores on infected stubble become airborne and are deposited on the plant. Vercoras reduces blackleg infection on cotyledons and early leaves, and helps to reduce lodging and the degree of stem

FUSARIUM CHALLENGED TRIALS²



UNTREATED



VERCORAS



TREATED

infection later in the season. With four fungicides and one insecticide, Vercoras also controls flea beetles, seed-borne blackleg and the seedling disease complex (*Fusarium* spp., *Rhizoctonia solani*, *Pythium* spp. and *Alternaria* spp.).

Growers need every possible tool in the fight against blackleg, including IPM strategies like growing the newest R-rated canola hybrids, reducing disease inoculum through longer rotations, controlling host weeds, judicious fungicide use, and proper scouting and field monitoring. Vercoras is yet another great tool to add to this list. Talk to your CAM for more information.

¹ Vercoras seed treatment is an on-seed application of Vercoras F3 seed treatment, Poncho® 600 FS seed treatment insecticide and Vercoras XC seed treatment.[BVI]



CANOLA

InVigor®

InVigor® hybrid canola has a hybrid that can perform for every field. Our performance is enhanced by industry-leading innovation that comes backed with unparalleled support and development from numerous teams at BASF. This year, innovation comes in the form of two new 300 series InVigor hybrids.



CANTERRA SEEDS is a Canadian company created by farmers, for farmers and we are 100% committed to meeting the seed needs of our customers.

Purchase your CANTERRA SEEDS Canola with UFA and don't pay Interest until December 1, 2022.† Our canola varieties are tested for local performance to allow us to produce top quality hybrids suited for Western Canadian growing conditions.

† Customers must have available FCC credit at the time of purchase. Transaction will be applied directly to FCC Credit Line at the time of purchase. Product must be invoiced by April 30, 2022. CANTERRA SEEDS Canola and PRIDE SEEDS Corn are Interest Free until December 1, 2022. Payment on FCC Crop Input loan is due March 15, 2023.



Bayer continues to redefine what our canola can do towards ensuring success for you and your operation. In fact, the DEKALB® portfolio has and will continue to expand with high-yielding hybrids and traits to make using DEKALB the right seed for a profitable season year after year. We're pleased to share our extensive lineup of canola hybrids including our TruFlex™ canola with Roundup Ready® Technology, TruFlex™ canola with Roundup Ready® and LibertyLink® Technologies, and DEKALB LibertyLink® canola.



Brevant™ seeds has the canola lineup that will make a difference to your bottom line by providing you with the flexibility to make the right agronomic and marketing choice for your farm.

Brevant™ seeds offers high-yielding canola hybrids with clubroot resistance, harvest flexibility, profit opportunity and marketing options, now available in Roundup Ready®, Clearfield® and LibertyLink®* herbicide tolerant systems. A new Optimum® GLY** canola hybrid is on the way, making Brevant™ seeds one of the first canola seed brands to offer farmers all four herbicide tolerant systems.

*LibertyLink® is a registered trademark of BASF.

**Pending approval in relevant export countries.

HARVESTABILITY.

Pick the varieties that best suit your harvesting needs. Complete variety specifications are below.

SWATH	DELAYED SWATH	STRAIGHT CUT	PODSHATTER
InVigor L252	DEKALB DKTF 98 CR	CANTERRA Seeds CS2600 CR-T	InVigor L343PC
InVigor L241C	DEKALB 75-42	CANTERRA Seeds CS4000 LL	InVigor L356PC
CANTERRA Seeds CS2000	Brevant™ seeds 1028 RR	CANTERRA Seeds CS3000 TF	InVigor L233P
CANTERRA Seeds CS2300	Brevant™ seeds B1030N	CANTERRA Seeds CS2100	InVigor L234PC
CANTERRA Seeds CS2500 CL		CANTERRA Seeds CS2400	InVigor LR344PC
DEKALB 75-45		DEKALB DKTF 97 CRSC	InVigor L340PC
Brevant™ seeds B3011		DKEALB DKLL 82 SC	InVigor L345PC
Brevant™ seeds 2028 CL		DEKALB 75-65	InVigor L357P
		DEKALB DKTF 99 SC	InVigor L255PC
		DEKALB DKTF 96 SC	
		DEKALB DKTFLL 21 SC	
		Brevant™ seeds B2030MN	
		Brevant™ seeds B3010M	

INCREASING POD INTEGRITY



CANOLA MATURITY.

Use the chart below to pick out the varieties that best suit the average growing degree days in your area. Complete variety specifications are on the following pages.

EARLY MATURITY.

Over 3 Days Earlier	-3	-2.5	-2
InVigor L233P	InVigor L234PC	CANTERRA SEEDS CS2600 CR-T	CANTERRA SEEDS CS2400
DEKALB 75-45	DEKALB DKTFLL 21 SC		DEKALB DKLL 82 SC

-1.5

-1.5
DEKALB 75-42
DEKALB DKTF 98 CR

-1

-1
InVigor L241C
InVigor LR344PC
DEKALB 75-65
Brevant™ seeds B3010M
Brevant™ seeds B3011

-0.5

-0.5
InVigor L340PC
CANTERRA SEEDS CS3000 TF
DEKALB DKTF 96 SC
DEKALB DKTF 97 CRSC
DEKALB DKTF 99 SC

0

0
InVigor L345PC
InVigor L343PC
CANTERRA SEEDS CS2000

Check InVigor L345PC

**KNOWING YOUR GROWING CONDITIONS IS A
KEY DRIVER TO CHOOSING A VARIETY WITH THE RIGHT
MATURITY FOR YOUR AREA. USING LOCALIZED PLOTS AND
EXPERTISE HELPS YOU MAKE THE RIGHT DECISION.**

DEIDRE SANDERS > CUSTOMER ACCOUNT MANAGER, GRANDE PRAIRIE



LATE MATURITY.

0.5

InVigor L252

InVigor L356PC

CANTERRA SEEDS
CS4000 LL

1

InVigor L357PC

CANTERRA SEEDS
CS2500 CL

1.5

InVigor L255PC

CANTERRA SEEDS
CS2100Brevant™ seeds
1028 RR

2


Brevant™ seeds
B1030NBrevant™ seeds
B2030MN

2.5

CANTERRA SEEDS
CS2300

3

> 3 Days Later

A man wearing a dark blue zip-up hoodie, a green and grey baseball cap, and glasses is standing in a field of dry, yellowish-brown grass. He is looking down at a small plant he is holding in his hands. The background is a clear blue sky and a flat horizon line.

**GETTING THE CHANCE TO APPLY
A DIFFERENT CHEMICAL GROUP OR
MODE OF ACTION SUCH AS LIBERTY,
A GROUP 10 CHEMICAL, IS KEY TO
CLEANING UP DIRTY GROUND LEFT
BEHIND FROM OTHER PRODUCTS
ON THE MARKET THAT HAVE BECOME
RESISTANT TO A LOT OF COMMON WEEDS.**

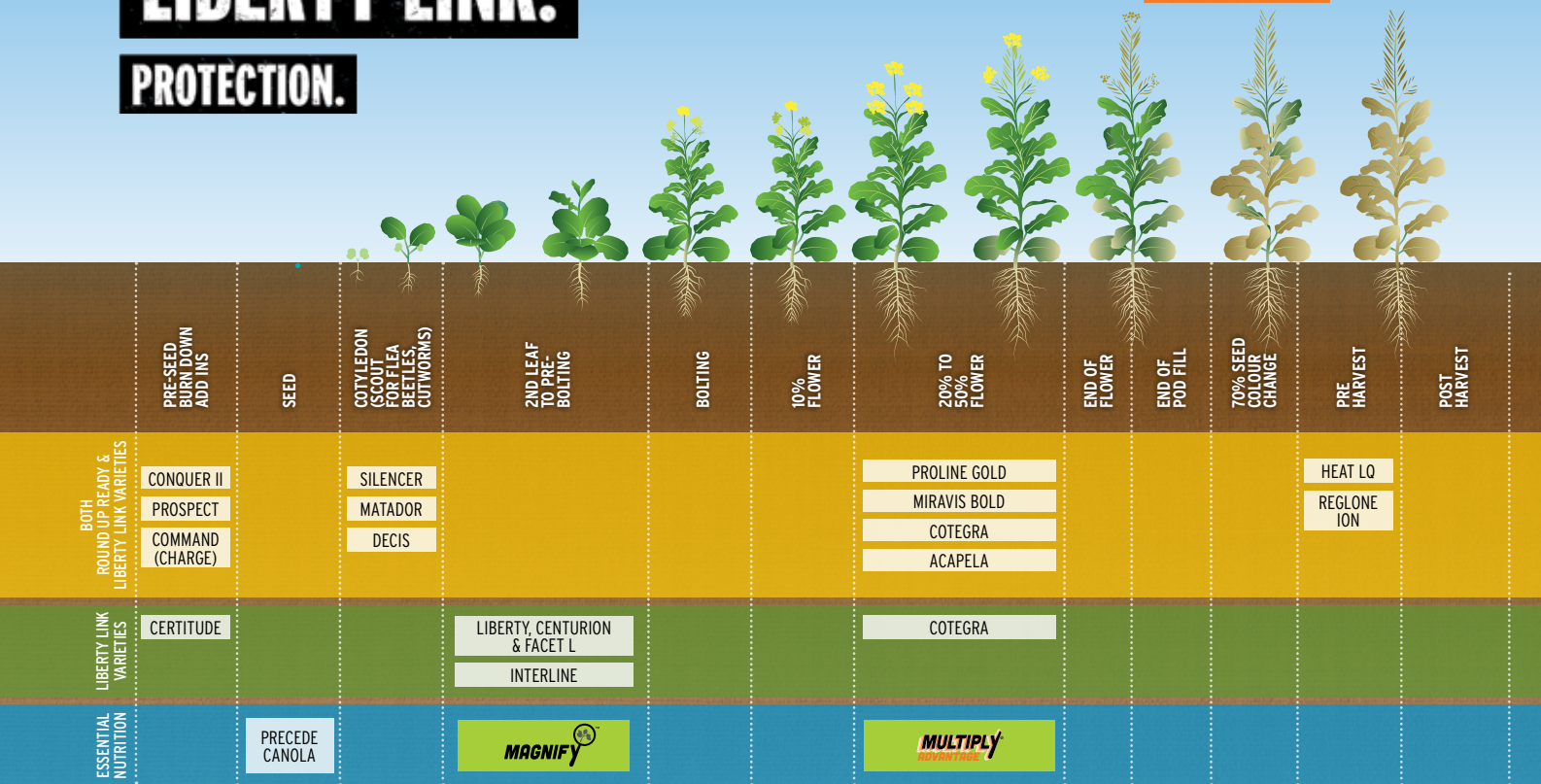
DOUG BRODOWAY > CUSTOMER ACCOUNT MANAGER, MEDICINE HAT

LIBERTY LINK.

PROTECTION.

ASK YOUR CUSTOMER ACCOUNT MANAGER
HOW YOU CAN PROTECT YOUR CROP
INTEREST FREE.

CANOLA



ALWAYS READ AND FOLLOW LABEL DIRECTIONS.
All trademarks are the property of their respective owners.

LIBERTY LINK.

	BASF NEW INVIGOR L343PC	BASF NEW INVIGOR L356PC	BASF INVIGOR L357P	BASF INVIGOR L340PC	BASF INVIGOR L345PC	BASF INVIGOR L233P
GROWING ZONES	All	All	Mid to Long	All	All	All
LODGING RESISTANCE	Strong	Strong	Very Strong	Strong	Good	Strong
HARVESTABILITY	Pod Shatter Reduction	Pod Shatter Reduction	Pod Shatter Reduction	Pod Shatter Reduction	Pod Shatter Reduction	Pod Shatter Reduction
CLUBROOT	2nd Generation Clubroot Resistance	1st Generation Clubroot Resistance	–	1st Generation Clubroot Resistance	1st Generation Clubroot Resistance	–
HEIGHT	Medium	Medium	Medium	Medium	Medium	Medium
BLACKLEG RATING	R	R	R	R	R	R
SUPPLIER COMMENTS	NEW InVigor L343PC combines performance with protection. This high-yielding Pod Shatter Reduction hybrid contains second-generation clubroot resistance* and offers a significant yield increase over InVigor L234PC plus improved standability.	For grower's targeting that extra bushel or two out of their canola, NEW InVigor L356PC is here. InVigor L356PC was our highest-yielding hybrid in the 2020 WCC/RRC* trials. It also combines first-generation clubroot resistance with Pod Shatter Reduction technology and features strong standability.	This Pod Shatter Reduction hybrid carries the unique distinction of containing exceptional blackleg resistance as well as providing high yields. InVigor L357P is a great fit for growers in non-clubroot areas and who irrigate or when lodging is a concern.	High yield, mid maturity, Pod Shatter Reduction and first-generation clubroot resistance – InVigor L340PC has it all. With strong standability, it excels in fields under irrigation or when lodging is a concern.	As the highest-yielding hybrid at the 2020 Canola Performance Trials (Straight Cut), InVigor L345PC offers a significant jump in yield potential over InVigor L233P. It also features our patented Pod Shatter Reduction technology and first-generation clubroot resistance.	Germination magazine's 2021 Seed of the Year. InVigor L233P has been grown on more acres than any other InVigor canola hybrid in Western Canada. Featuring patented Pod Shatter Reduction technology, this very early maturing, high-yielding hybrid provides the harvest flexibility you can count on.

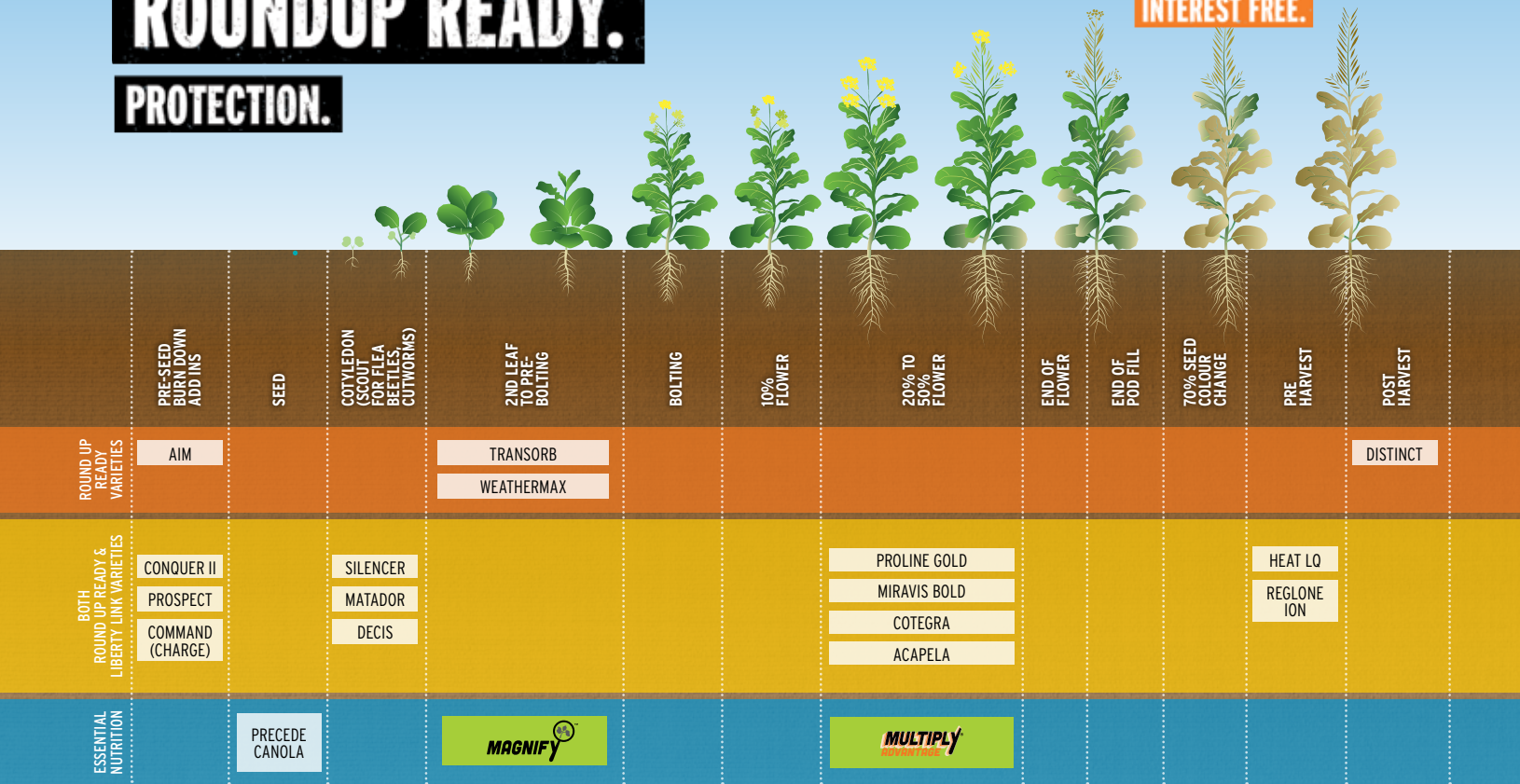
LIBERTY LINK.

BASF INVIGOR L234PC	BASF INVIGOR L255PC	BASF INVIGOR L241C	BASF INVIGOR L252	CANTERRA SEEDS NEW CS4000 LL	DEKALB SEEDS DKLL 82 SC	BREVA TM SEEDS B3010M	BREVA TM SEEDS B3011
All	Mid to Long	All	All	Mid (All)	Early Season	–	–
Good	Very Strong	Very Strong	Strong	Very Good	Strong	Very Good	Very Good
Pod Shatter Reduction	Pod Shatter Reduction	–	–	Straight Cut	Straight Cut Plus	–	–
2nd Generation Clubroot Resistance	1st Generation Clubroot Resistance	1st Generation Clubroot Resistance	–	1st Generation Clubroot Resistance	–	CR3 (New Source)	CR1
Medium	Medium	Medium	Medium	Medium/Tall	Short- Medium	–	–
R	R	R	R	R	R (A,C,G)	R (Resistant)	R (Resistant)
This early-maturing Pod Shatter Reduction hybrid contains second-generation clubroot resistance*, which makes it a great fit for growers in known clubroot-affected areas who still want performance.	InVigor L255PC is a Pod Shatter Reduction hybrid with first-generation clubroot resistance that separates itself from other hybrids due to it's very impressive standability.	You can expect strong standability and high yields from this mid-maturing hybrid. With first-generation clubroot resistance, InVigor L241C is well suited to all clubroot-affected regions of Western Canada for growers that prefer to swath.	A consistent top performer for growers that prefer to swath, InVigor L252 continues to offer incredible yield performance and strong standability with mid-season maturity.	High yielding LibertyLink® canola hybrid. Suitable for all growing zones, this mid-maturing hybrid features blackleg and clubroot resistance (resistant to pathotypes 2F, 3H, 5I, 6M and 8N), strong standability, and excellent straight cut performance.	The next addition to DEKALB's LibertyLink® offering and built for straight cutting. Complete with high yield potential and multi-genic blackleg resistance (ACG).	Brevant™ seeds B3010M provides high yields, industry-leading clubroot resistance and the harvest flexibility and maximum yield management of the HarvestMax trait.	Brevant™ seeds B3011 offers great yields, good standability and clubroot resistance.

ROUNDUP READY.

PROTECTION.

ASK YOUR CUSTOMER ACCOUNT MANAGER
HOW YOU CAN PROTECT YOUR CROP
INTEREST FREE.



ROUNDUP READY.

	CANTERRA SEEDS CS2000	CANTERRA SEEDS CS2100	CANTERRA SEEDS CS2300	CANTERRA SEEDS CS2400	DEKALB SEEDS 75-65 RR	DEKALB SEEDS 75-45 RR	DEKALB SEEDS 75-42 CR	BREVA TM SEEDS NEW B1030N	BREVA TM SEEDS 1028 RR
GROWING ZONES	Mid Season	Mid Maturity	Late Maturity	Early Maturity	Early	Very Early	Early	-	-
LODGING RESISTANCE	Good	Very Good	Excellent	Excellent	Strong	Strong	Strong	Very good	Very good
CLUBROOT	Clubroot Resistance	-	-	-	Straight Cut	-	Clubroot Resistance	CR1	CR1
BLACKLEG RATING	R-CE1	R-ACG	R-C	R-CX	R (C)	R (C,G)	R (A,C)	R (Resistant)	R (Resistant)
OVERALL COMMENT	A Roundup Ready® canola hybrid with great yield potential, broad adaptability and enhanced clubroot resistance. (Resistant to pathotypes 2,3,5,5G,6,8 and Intermediate Resistant to 5X, 30 and 5K).	A Roundup Ready® canola hybrid with excellent yield potential, multigenic blackleg resistance and straight-cut option.	Strong legs and big bushels - a Roundup Ready® canola hybrid setting a new standard for yield and standability.	A value option in the CANTERRA SEEDS' portfolio with multigenic blackleg resistance and straight-cut potential.	This hybrid was built to straight cut. Strong standability.	Seed first and you can be first in your field at harvest.	High yield potential, excellent disease package, and an early maturity advantage.	NEW! Brevant™ seeds B1030N is a high-yielding hybrid with an excellent clubroot and blackleg package, plus strong standability. It comes with the Nexera® trait.	Brevant™ seeds 1028 RR is a high-yielding hybrid with an outstanding disease package, including clubroot and blackleg, and it comes with the Nexera® trait.



	CANTERRA SEEDS CS2600 CR-T	CANTERRA SEEDS CS3000 TF	DEKALB SEEDS DKTF 99 SC	DEKALB SEEDS DKTF 98 CR	DEKALB SEEDS DKTF 97 CRSC	DEKALB SEEDS DKTF 96 SC
GROWING ZONES	Early (short)	Mid (all)	Mid	Mid	Mid	Mid
LODGING RESISTANCE	Very Good	Very Good	Strong	Very Good	Very Good	Strong
HARVESTABILITY	Straight Cut	–	Straight Cut	–	Straight Cut	Straight Cut Plus
CLUBROOT	Resistance including 3A and 3D	2nd Generation Clubroot Resistance	–	Multi-genetic Clubroot Resistance	Clubroot Resistance	–
HEIGHT	Medium	Short		–	–	–
BLACKLEG RATING	R-C	R-AG	R (G)	R (A,C)	R (A,G)	R (A,G)
SUPPLIER COMMENTS	An early-maturing TruFlex™ Canola with Roundup Ready® Technology hybrid has unparalleled application window and rate flexibility, enhancing weed control options, enhanced clubroot resistance to one of the widest ranges of pathotypes (Resistant to pathotypes 2,3,5,6,8 + 2B, 5X, 3A and 3D) and straight cut potential.	NEW! Mid-maturing, TruFlex™ with Roundup Ready® Technology canola hybrid. Excellent disease resistance with 2nd generation clubroot resistance (R: 2F, 5G, 3H, 5I, 5L, 6M, 8N; R or MR*: 3A, 2B, 3D, 5X) and multigenic R-AG blackleg resistance, this straight cut variety is suitable for all growing zones. *pathotype testing ongoing.	Straight cut hybrid with excellent yield potential that offers outstanding performance and harvestability. TruFlex™ canola with Roundup Ready® Technology providing enhanced weed control and flexibility in spray timing and rates. Strong standability.	Multi-genetic clubroot resistance hybrid that provides durable protection against a broad spectrum of clubroot pathotypes. TruFlex™ canola with Roundup Ready® Technology providing enhanced weed control and flexibility in spray timing and rates. Mid maturity - well suited to all clubroot zones tested	Strong yield potential, straight cut genetics, clubroot protection and an excellent blackleg rating all-in-one hybrid. TruFlex canola with Roundup Ready Technology providing enhanced weed control and flexibility in spray timing and rates. Good standability.	A high yield potential DEKALB hybrid with straight cut plus genetics. TruFlex™ canola with Roundup Ready® Technology providing enhanced weed control and flexibility in spray timing and rates. Improved pod integrity for enhanced pod shatter protection.

STACKED TRAITS.

	BASF INVIGOR LR344PC	DEKALB SEEDS DKTFLL 21 SC
GROWING ZONES	ALL	Early
LODGING RESISTANCE	Good	Strong
HARVESTABILITY	Pod Shatter Reduction	Straight Cut Plus
CLUBROOT	1st Generation Clubroot Resistance	–
BLACKLEG RATING	R	R (A,C,G)
AGRONOMIC TRAIT	Pod shatter reduction 1st generation Clubroot resistance LibertyLink technology system and TruFlex™ canola with Roundup Ready® Technology	TruFlex™ canola with Roundup Ready® and LibertyLink® Technologies
SUPPLIER COMMENTS	InVigor Choice hybrid with Pod Shatter Reduction technology and first-generation Clubroot resistance. InVigor LR344PC features both the LibertyLink® technology system and TruFlex™ canola with Roundup Ready® Technology. Perfect for growers looking to combine high-yielding InVigor genetics with the flexibility of Liberty® herbicide or Roundup® herbicide applications.	The first DEKALB TruFlex™ canola with Roundup Ready® and LibertyLink® Technologies. Offering improved pod integrity for straight cutting, flexibility in spray timing and rates, with very good standability and high yield potential. Complete with multi-genic blackleg resistance.



	CANTERRA SEEDS CS2500 CL	BREVANT™ SEEDS 2028 CL	BREVANT™ SEEDS NEW B2030MN
GROWING ZONES	Mid (all)	–	–
LODGING RESISTANCE	Excellent	Very good	Very good
HEIGHT	Medium/Tall	–	HarvestMax
CLUBROOT	–	CR1	CR1
BLACKLEG RATING	R-C	R (Resistant)	R (Resistant)
SUPPLIER COMMENTS	Exclusive contract premiums with one-pass weed control that saves time and offers more ROI – only available with Clearfield® Canola.	Brevant™ seeds 2028 CL provides Western Canadian Clearfield® growers with a high-yielding clubroot and blackleg resistant hybrid, with the Nexera® trait.	NEW! Brevant™ seeds B2030MN has very good early growth, clubroot and blackleg resistance and comes with the HarvestMax maximum yield management trait, the Clearfield® and the Nexera® trait.



**ADDING A INSECTICIDE SEED TREATMENT
HELPS PROTECT FROM CUTWORMS AND
WIREWORMS. BY KEEPING THE INSECT
PRESSURE DOWN THIS HELPS MAINTAIN
THE PLANT POPULATION AND UNIFORMITY.**

DALLAS UPTON > CUSTOMER ACCOUNT MANAGER, HANNA & DRUMHELLER

BOOST YOUR SEED TREATMENT PACKAGE.

Canola seed comes pre-treated with a systemic insecticide that grows with the plant to keep it protected from flea beetles, and in many years that is enough.

But, sometimes, additional insect control is

required. You can either plan ahead and boost the base seed treatment when selecting your seed, or plan for a foliar application if the crop is delayed, flea beetle pressure is high, or if cutworms are a problem.



FLEA BEETLE



CUTWORM

Assess your risk:

Cutworms are the decision driver when it comes to enhancing your base seed treatment package. They can cause severe, if patchy, damage to a canola crop before they're even noticed and different species feed at different levels – above, below and at the soil surface and are hard to scout for. If populations were high this fall it's prudent to consider boosting your seed

treatment which also offers enhanced flea beetle management.

Still unsure? Compare the cost of boosting seed treatment to the cost of insecticide, fuel and time of a foliar application.

Get the best protection for your seed now and keep the foliar spray in your back pocket as a defense against significant insect pressure.

	INVIGOR SEEDS	CANTERRA SEEDS	DEKALB SEEDS	BREVANT™ SEEDS
STANDARD TREATMENT	–	Helix Saltro	Prosper EverGol & BUTEO Start	Helix Vibrance
ENHANCES INSECTICIDE CONTROL	Lumiderm	Fortenza Advance; BUTEO Start	Fortenza	Lumiderm
BIO-ENHANCER	–	–	JumpStart XL	JumpStart XL
SEED TREATMENT AND MINIBULK DEADLINE	11-Feb	18-Feb	11-Feb	11-Feb



PRIDE SEEDS

PRIDE Seeds, distributed by CANTERRA SEEDS, offers a grain and silage specific lineup that goes beyond field appearance to ensure our hybrids deliver what matters most at harvest, yield, energy, digestibility, palatability and overall nutritional value for Alberta farmers.

Purchase your PRIDE Seeds Corn with UFA and don't pay Interest until December 1, 2022.[†]



The DEKALB® corn lineup provides strong, consistent performance, with excellent standability and stalk strength for Alberta, as well as excellent test weight and dry down.



Pickseed has a trusted and proven reputation for quality, agronomic advice and a commitment to research and technology.

[†] Customers must have available FCC credit at the time of purchase. Transaction will be applied directly to FCC Credit Line at the time of purchase. Product must be invoiced by April 30, 2022. CANTERRA SEEDS Canola and PRIDE SEEDS Corn are Interest Free until December 1, 2022. Payment on FCC Crop Input loan is due March 15, 2023.



**TO HAVE GOOD QUALITY FEED FOR YOUR ANIMALS,
THE HARVESTING AND STORAGE PROCESS IS AS IMPORTANT
AS THE IN-FIELD ACTIVITIES A PRODUCER DOES.**

MARISSA ASLIN > SALES SUPPORT SPECIALIST, LETHBRIDGE.

CORN VARIETIES.

	DLF PICKSEED PS 2142RR	NEW PRIDE SEEDS A397962 RIB	PRIDE SEEDS A399362 RIB	DEKALB SEEDS DKC21-36RIB	DEKALB SEEDS DKC23-17RIB	DEKALB SEEDS DKC24-05
CHU (SILAGE CHU)	2000	2025	2025	2075	2075	2100
RELATIVE MATURITY	–	71	72	71	73	74
VALUE-ADDED TRAIT	Roundup Ready Corn 2 [®] technology	VT Double PRO [®] RIB Complete [®] technology	VT Double PRO [®] RIB Complete [®] technology	VT Double PRO [®] RIB Complete [®] technology	VT Double PRO [®] RIB Complete [®] technology	Roundup Ready Corn 2 [®] technology
SEEDLING VIGOUR	Very Good	Very Good	Excellent	Excellent	Very Good	Very Good
ROOT STRENGTH	Excellent	Excellent	Excellent	Excellent	Very Good	Very Good
STALK STRENGTH	Excellent	Excellent	Excellent	Very Good	Excellent	Excellent
PLANT HEIGHT	Short - Medium	Medium	Medium	Medium	Medium	Medium-Tall
TEST WEIGHT	Very Good	Excellent	Excellent	Excellent	Excellent	Excellent
SILAGE YIELD	Good	Good	Good	N/A	Excellent	N/A
MILK/ACRE	Very Good	Evaluating	Good	N/A	Excellent	N/A
USAGE	–	–	–	Grain	Grain, Silage	Grain
OVERALL COMMENT	Early flowering hybrid with a flint kernel and is a good dual purpose option.	Very early hybrid for short season maturity zones. Has shown stable, high yield potential for maturity rating.	Very early grain and grazing hybrid for short season maturity zones with rapid emergence.	Excellent emergence and root strength with very good drought tolerance.	Very early flowering product for short season areas. Allows early ensiling and very good forage quality.	Excellent test weight. Very good drought tolerance.

CORN VARIETIES.

DEKALB SEEDS DKC24-06RIB	PRIDE SEEDS AS1017RR EDF	DLF PICKSEED PS 2210VT2P RIB	PRIDE SEEDS A4414RR	DEKALB SEEDS DKC26-40RIB	PRIDE SEEDS A4323G2 RIB	DLF PICKSEED PS 2320RR	PRIDE SEEDS A4705HMRR
2100	2125 (2050-2250)	2125	2150 (2050-2175)	2150	2200	2200	2225 (2225-2350)
74	73 (71-75)	–	73 (72-74)	76	75	–	75 (74-77)
VT Double PRO® RIB Complete® technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete® technology	VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology	Roundup Ready Corn 2® technology
Very Good	Good	Very Good	Very Good	Excellent	Very Good	Very Good	Excellent
Very Good	Excellent	Good	Excellent	Very Good	Excellent	Good	Excellent
Excellent	Excellent	Very Good	Excellent	Excellent	Very Good	Very Good	Excellent
Medium-Tall	Very Tall	Tall	Tall	Medium-Tall	Medium-Tall	Tall	Tall
Excellent	Very Good	Excellent	Excellent	Excellent	Very Good	Excellent	Excellent
N/A	Excellent	Excellent	Very Good	Excellent	–	Excellent	Excellent
N/A	Excellent	Excellent	Very Good	Excellent	–	Excellent	Excellent
Grain	–	–	–	Grain, Silage	Grain	–	Silage, Grazing
Excellent test weight. Very good drought tolerance.	New early silage, high moisture corn offering flint kernels on white cob in shorter season growing areas.	Outstanding yield potential for both grain and silage. Double stacked insect protection.	Combines early maturity with very good digestibility for high energy yield.	High tonnage potential for its maturity. Fixed-ear hybrid can be planted at high populations for full yield potential.	Ideal as grain hybrid with very rapid drydown.	This hybrid yields very well for its heat unit and is a great option for both silage or grazing.	Slow grain drying rate preserves reliable, consistent feed quality at ideal moisture for a wide harvest window.

CORN VARIETIES.

	DLF PICKSEED PS 2321VT2P	PRIDE SEEDS A4514RR	DEKALB SEEDS DKC29-89RIB	DLF PICKSEED PS 2333RR	PRIDE SEEDS A464662 RIB	DLF PICKSEED PS 2420RR
CHU (SILAGE CHU)	2225	2275 (2150-2250)	2275	2275	2300 (2200-2250)	2300
RELATIVE MATURITY	–	78	79	–	79	–
VALUE-ADDED TRAIT	VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete® technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology
SEEDLING VIGOUR	VERY GOOD	Good	Very Good	Very Good	Good	Very Good
ROOT STRENGTH	Good	Very Good	Excellent	Very Good	Very Good	Good
STALK STRENGTH	Very Good	Very Good	Excellent	Very Good	Very Good	Very Good
PLANT HEIGHT	Tall	Medium/Tall	Medium-Tall	Medium	Medium/Tall	Tall
TEST WEIGHT	Excellent	Very Good	Very Good	Excellent	Very Good	Excellent
SILAGE YIELD	Excellent	Very Good	N/A	Excellent	Very Good	Excellent
MILK/ACRE	Excellent	Very Good	N/A	Excellent	Very Good	Very Good
USAGE	–	Grain, Silage, Grazing	Grain	–	Grain, Silage, Grazing	–
OVERALL COMMENT	VT Double PRO® Complete™ technology version of PS 2320RR, a great option for insect protection.	Combines very good digestibility and high starch for high energy yield.	Excellent harvest appearance with very good drydown. Excellent drought tolerance.	This hybrid is known for its consistency to yield and perform at top levels. An excellent option for silage or grazing.	Combines very good digestibility and high starch content for high energy yield.	A tall, early flowering hybrid with excellent silage or grazing potential.



CORN VARIETIES.

DLF PICKSEED PS 2444 VT2P	NEW PRIDE SEEDS AS1027RR EDF	PRIDE SEEDS A4939G2 RIB	PRIDE SEEDS AS1047RR EDF	DEKALB SEEDS DKC31-85RIB	DLF PICKSEED PS EXSEED LF RR	DEKALB SEED DKC33-37RIB
2350	2375 (2250-2425)	2400 (2250-2375)	2425 (2275-2475)	2425	2450	2500
	79 (77-81)	80	80 (78-82)	81	–	83
VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete™ technology	Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete® technology	Leafy Floury, Roundup Ready Corn 2® technology	VT Double PRO® RIB Complete® technology
Very Good	Good	Very Good	Very Good	Very Good	Very Good	Very Good
Very Good	Excellent	Very Good	Very Good	Very Good	Very Good	Excellent
Very Good	Good	Very Good	Excellent	Very Good	Good	Excellent
Medium	Very Tall	Medium/Tall	Very Tall	Medium-Tall	Tall	Medium
Good	Very Good	Very Good	Very Good	Good	Very Good	Excellent
Very Good	Excellent	Very Good	Excellent	Excellent	Excellent	N/A
Very Good	Excellent	Very Good	Excellent	Excellent	Very Good	N/A
–	Silage	Grain, Silage	Silage, Grazing	Grain, Silage	–	Grain
Impressive yield potential with very good staygreen and intactness making it an excellent grazing option.	NEW choice for high moisture corn or silage feed. Consistent ears producing flint kernels on white cobs.	Ideal balance of forage yield and energy content.	Features consistent, heavy, top-end tonnage. Premium choice for high moisture corn or silage.	High yield potential and high fibre digestibility with above average staygreen.	The Leafy floury gene makes this an excellent silage option. More leaves above the ear provides more tonnage.	Excellent drought tolerance. Very good drydown and harvest appearance.

FOUR AGRONOMIC DRIVERS FOR SUCCESSFUL CORN PRODUCTION.

Corn can be a challenge to grow. It needs everything to be just right to maximize yield potential. Here are four key agronomic drivers to keep in mind.

1. **SEEDBED PREPARATION.** Because a lot of heavy equipment is used to harvest silage corn, there's usually a lot of trash and compaction in that field. A deep rip in the fall (disc ripper with 18-inch tines) breaks that compaction allowing soils to warm more quickly the following spring and encourage better corn root development. Done regularly, deep ripping will contribute to better corn yields.

2. **PLANT IT RIGHT.** Watch your speed and depth.

Speed. No more than 4 to 4.5 mph. It comes down to the physics of your planter. Curved drop tubes are designed to perfectly place corn seed at this speed. Go faster and seeds start bouncing, and you'll lose those perfect "picket fence" crop rows.

Depth. To build brace roots properly, seed no more than 1 to 1.5 inches deep. If you go deeper, you'll still get brace roots, but you'll also have uneven emergence and delayed development because plants use their energy to get out of the ground rather than produce leaves.

3. **SPRAY IT RIGHT.** Weed control is the major focus as corn is a terrible competitor. Weed competition at any stage will delay maturity so get them out. Here's what you should do:

Start clean. Use a pre-seed herbicide, there are many to choose from, to clean fields before you seed.

Spray twice more. Apply herbicide in early June, when the crop is showing two to three leaf tips, to get that first flush of weeds out. Spray again in late June when the corn is about 10 inches tall just before the rows close. Two mid-season sprays can boost yields by up to 15%, so it's worth the effort.

Use the right tank mix partners.

Two factors to consider are: volunteer herbicide-tolerant canola (it's everywhere), and other herbicide-tolerant weeds, particularly glyphosate-resistant kochia. Know your field history, scout your fields properly to assess what weeds are actually there and choose the tank mix partner best suited to control them.

4. **MEET WATER REQUIREMENTS.** Peak water use for corn is from the last week of July through the first two weeks of August when corn is at the beginning of its reproductive stage. At this point, it needs 6mm to 7mm of water per day.

Timing matters. If you irrigate corn, watch your timing. Two inches of water in May will perk it up, but it will also cause corn to crown too early.

A woman with short brown hair and glasses, wearing a dark jacket over a black shirt, stands smiling in a cornfield. The corn plants are tall and green, with some ears visible. The background is a dense field of corn.

**CONTROL THE MANAGEABLE;
SMALL CHANGES SUCH AS SLOWING
DOWN YOUR PLANTER SPEED OR
ADDING A HERBICIDE TANK MIX WILL
HELP OPTIMIZE YOUR CORN CROP.**

KAREN CAREY > CUSTOMER ACCOUNT MANAGER, STETTLER



HARVEST AND STORAGE CAN IMPACT SILAGE NUTRITION.

How you harvest and store silage corn can have a big impact on the nutritional value of what you eventually feed to your cattle.

The sources of nutrition in silage corn are found in the green and yellow pools. The green pool (leaves, stalks and husks) is where all the digestible fibre comes from, while the yellow pool (grain) is where starch comes from.

To achieve maximum nutritional potential in both those pools, corn plants must reach physiological maturity before being harvested, which means choosing a hybrid with relative maturity (RM) and corn heat unit (CHU) ratings suited to your area. At minimum, kernels should be at the half milk line before harvesting, and whole plant dry matter is

between 32 and 38% - if it's too wet or too dry it will not ferment properly.

Now that you're ready to harvest, what can you do to ensure none of that nutrition is lost?

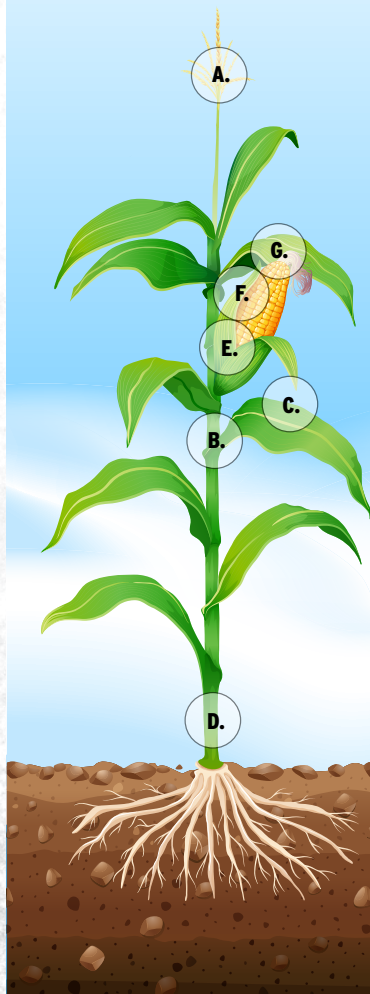
Chop and grind. Chop plant material to the right length, and make sure your kernel processor is set to properly break apart grain and grind the cobs so that both are in a digestible form. Whole kernels in silage may have intrinsic nutritional value, but whole kernels simply pass through the rumen without releasing any of it.

Pack it, pack it, pack it. Oxygen is the enemy of successful ensiling, so the tighter you pack silage, the less oxygen there will be to create heat

and alcohol - both of which diminish nutrition. The goal is to move the silage very quickly from the aerobic to the anaerobic stage, which is when lactic acid is formed to protect and preserve nutritional value. Rule of thumb: silage can never be packed too much.

Consider an inoculant.

Fermentation occurs though naturally occurring bacteria that form lactic acid in the silage pile. Silage inoculants let you seed preferential bacteria into layers of silage as it's packed, speeding the ensiling process.



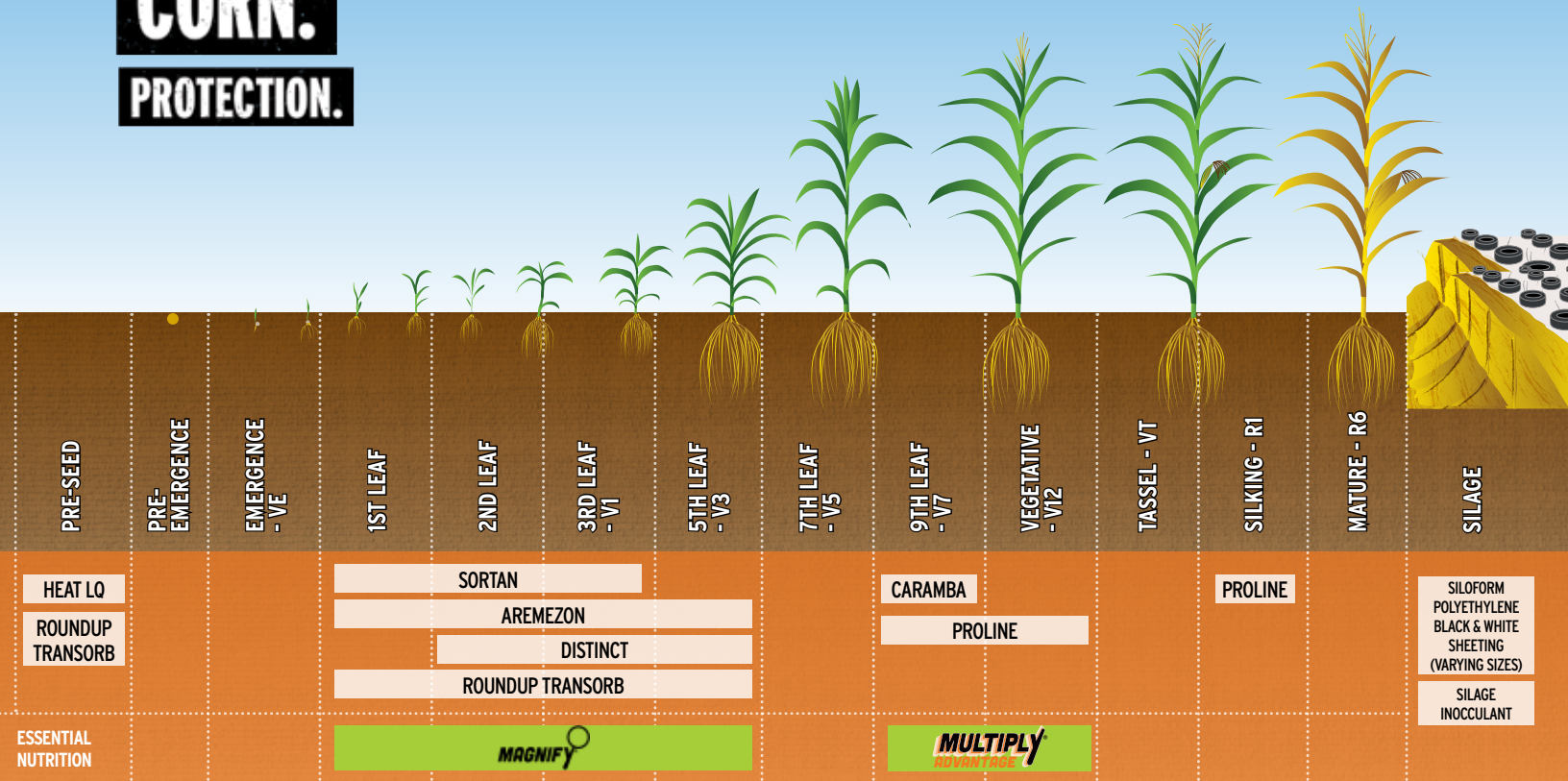
CONTRIBUTION OF PLANT PARTS TO YIELD AND QUALITY

Part	% of DM	NDF %	Digestibility %
A. Tassel	1	78	63
B. Leaf Sheath	6	78	69
C. Leaf Blade	10	67	82
D. Stalk	19	67	74
E. Husk	5	81	75
F. Cob	12	89	39
G. Grain	47	12	90
H. Silage	100	45	77
I. Earlage	60	30	80

Silage corn has two nutrition pools - green and yellow. The green pool, that's the leaves, stalks and husks, are where the digestible fibre comes from. The yellow pool, the grain, is where the starch comes from and is all energy. It means you want to pay attention to the whole plant as it grows and matures so that you capture the best of both pools in your silage.

CORN. PROTECTION.

ASK YOUR CUSTOMER ACCOUNT MANAGER
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INTEREST FREE.



0% INTEREST.

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*The Interest Free Credit Program is valid for purchases from March 1 - May 31, 2022 and is Interest Free until October 31, 2022. Full payment is due to FCC March 15, 2023. Program is valid with a minimum purchase of 2,000L of farm fuel and/or \$2,000 of approved seed, crop inputs including crop protection products, fertilizer, seed treating services, animal nutrition supplements and/or bins, fans and augers that must be invoices and picked-up/delivered by May 31, 2022 to qualify. No special orders. Customer must have or apply for FCC EasyGROW or FCC EasyFUEL credit to participate and must have adequate credit limit and be in good standing. Must have a valid SFTX, BCFIN 458 or AFFB permit at time of purchase for farm fuel deliveries. Offer excludes heating oil and Cardlock purchases.

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