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SEED GUIDE 2023

Growing with confidence

Selecting the right seed for your farm is the most important crop input decision you make. The team of experts at your Nutrien Ag Solutions® retail is there to support you every step of the way. Every growing season brings fresh potential for success and the first step is making well-informed seed decisions. As a local partner invested in your unique vision of success we want you to be confident in your choice of seed. Nutrien Ag Solutions is ready to help with one of the broadest portfolios of top-quality seed brands – including Proven® Seed canola, soybeans, corn, cereals and forages.

It starts with seed

Selecting the right seed genetics for your geography and farming style is key to achieving your production goals. By taking a whole acre approach to your seed decisions, your Nutrien Ag Solutions Crop Production Advisor (CPA) can provide insights on which seed will give you the best yield and profitability for your land.

Precision farming

Get the most out of your inputs with precision agriculture. Exclusive to Nutrien Ag Solutions, Echelon™ is our best-in-class precision agriculture solution, providing growers with a unique model for using Variable Rate Technology (VRT) to create a variable rate recommendation that is based on your field history. Precision agriculture can improve the profitability and productivity of every square metre of your farm, while making daily operations easier and more efficient.

Proven science








Nutrien Ag Solutions operates the largest seed variety comparison program in Western Canada. Our Proven Performance Trials feature the most varieties of the most crops over the largest geographic diversity. It's just one of the ways Nutrien Ag Solutions delivers the best retail knowledge and experience.

Make a strong start to the growing season

Call or visit us today.
We're ready to help you grow with confidence.

NutrienAgSolutions.ca

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Delivering the best seed through innovation

At Nutrien Ag Solutions®, we are committed to bringing the best performing seed offerings to western Canadian growers. Research, Development and Innovation (R,D & I) is at the heart of this commitment. From selecting only the best performing hybrids and varieties to providing industry-leading research on breeding and disease resistance traits, growers can be certain they are getting only the best seed.

Seed breeding research and development

The Nutrien Ag Solutions R,D & I program is dedicated to breeding and supplying a pipeline of elite varieties for Proven® Seed. We have the longest running canola breeding program in Western Canada, so we know that developing successful varieties always starts with the best germplasm. Every variety and hybrid is put through rigorous testing to ensure quality before they are made available to growers through the Nutrien Ag Solutions network of retailers.

As we apply sophisticated agronomy and disease resistance traits, we help growers reach their goals of outright yield and yield stability.

Selecting what is right for Western Canada

Not only does Nutrien Ag Solutions have a proprietary canola breeding program, we also have relationships with breeding programs in canola, as well as cereals, soybeans, corn, forages, flax and mustard. These partnerships allow Proven Seed to select early, test intensively and advance lines successfully. The Proven Performance Trials program is the largest field trial program on the prairies and involves the widest assortment of crop lines.

Proven Performance Trials

Before Proven Seed advances any hybrid or variety, the line undergoes several years of testing internally by our R,D & I group at the same time as our breeding partners are testing them as well. We have twice the data to base our decisions on, and we do more testing to see how they perform with our farmers, on their land with their equipment. The final step, farmer run field scale trials, are

coordinated by our great agronomists across the network. The results from all these trials give us the confidence to say which seed is going to perform best in a specific geography.



Field tours and training

While the varieties are going through their field scale testing and final year of research trials, our Nutrien Ag Solutions agronomists are learning about the new lines. They get to see the new seed varieties throughout the season from both our internal Proven Seed breeding program as well as our brand partners like DEKALB®, InVigor® and NK®. We showcase these lines at local farm trials and tours and at our research farms across the prairies. They monitor new hybrids and varieties throughout the season and provide observations of their own, as well as those of participating farmers on their performance. Our farm cooperator's feedback is one of our best decision tools.

**Selected, tested and tried
A Proven Fit for Every Field**

Hi there,

My name is Mike Morlock and I am the Product Manager for canola seed at Nutrien Ag Solutions® Canada. It has been exciting to be involved in Canada's big yellow crop for more than 20 years, from field agronomy to grain marketing. The innovation in the canola industry has been humbling to observe.

There has never been a more exciting time to be involved in canola! Rapid advances in seed technology including yield potential, disease management, harvest management, seed treatments and herbicide traits are taking canola production to new levels every year. This year is no exception with many new hybrids and canola products being launched.

At Nutrien Ag Solutions, we work hard to offer the most comprehensive canola hybrid lineup in the marketplace. With the right canola hybrid for every field, our local retail teams will work with you to select and unlock the full genetic potential of your next canola hybrid!



CANOLA

Choose the right canola for your farm

CANOLA

	HERBICIDE MANAGEMENT		DEFENSIVE TRAITS	GROWING SEASON	GROWING SEASON			HARVESTABILITY	DISEASE PACKAGE		GRAIN MARKETING
	TRAIT	HERBICIDE RESISTANCE MANAGEMENT			SHORT	MID	FULL		STANDABILITY	STRAIGHT CUT*	
PV 760 TM	TruFlex™ Canola	Groups 1 & 2	BL		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	
PV 761 TM	TruFlex Canola	Groups 1 & 2	BL		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	
PV 780 TC	TruFlex Canola	Groups 1 & 2	BL, CR		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	
PV 781 TCM ^{NEW}	TruFlex Canola	Groups 1 & 2	BL, CR		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	
PV 560 GM	Roundup Ready®	Groups 1 & 2	BL		🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	
PV 581 GC	Roundup Ready	Groups 1 & 2	BL, CR		🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	
PV 660 LCM	LibertyLink®	Groups 2 & 9	BL, CR		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	
PV 680 LC	LibertyLink	Groups 2 & 9	BL, CR		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	
PV 681 LC	LibertyLink	Groups 2 & 9	BL, CR		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	
PV 200 CL	Clearfield	Groups 1 & 9	BL		🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	Non-GMO
PV 280 CLC ^{NEW}	Clearfield	Groups 1 & 9	BL, CR		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	🌿🌿	Non-GMO
Evolve RR HEAR	Roundup Ready	Groups 1 & 2	BL		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿	High Erucic Oil

BL = Blackleg
CR = Clubroot

TruFlex™ Canola with Roundup Ready® Technology = **TruFlex** CANOLA
Roundup Ready® Canola = **Roundup Ready** CANOLA

🌿🌿🌿 BEST OPTION 🌿🌿 BETTER OPTION 🌿 GOOD OPTION □ NONE

*Under favorable conditions conducive for straight cutting.

Choosing disease resistant canola

The adoption of an integrated disease management plan on the farm can successfully minimize the impact of significant yield robbers like blackleg and clubroot on your canola crop and can ensure sustainable production for years to come.

Growing an effective disease resistant variety is an absolute key component of the strategy, in addition to applying practices such as early disease detection, crop rotation and controlling host weeds between canola crops. There are many different labels for blackleg and clubroot resistance genetics in the marketplace right now, which can often be a challenge to interpret. Of the many challenges a canola grower faces in making

decisions of what variety to grow, decoding disease resistance labels shouldn't be one of them.

Blackleg R vs R-grouping: R, or 'Resistant', labels are given to varieties based on performance at multiple locations in multiple years of field testing under rigorous blackleg pressure. This type of trialing tests for effectiveness of both major and minor gene resistance and is a good measure of how the variety will perform against a diversity of blackleg races and across a range of geographies. A variety that has a field rating of R will have the most effective major R genes that work well against western Canadian blackleg races, combined with solid, broad-based, minor gene resistance. An R-gene grouping label simply indicates major gene resistance (often single genes), which will be effective against specific blackleg races only, and therefore may hold up in some fields, but not others.

Choosing a current canola hybrid with a field rating of 'R' to grow in your rotation will greatly reduce the risk of developing a blackleg problem on your farm.

Clubroot 1st Generation CR vs 2nd Generation CR varieties: Clubroot is steadily spreading across the prairies, but the impact of this potentially devastating disease can be minimized by growing a Clubroot Resistant (CR) variety in your crop rotation, whether you have clubroot on your farm or not. 1st Generation CR varieties have excellent resistance to the predominant pathotype (3H) of clubroot on the prairies. They are a good choice for most growers, as 3H is currently the pathotype that is still found in 90% of the fields surveyed in Western Canada. When grown on farms that don't have clubroot, 1st Generation CR varieties can delay the establishment of the disease if clubroot spores do inadvertently end up on your farm, and if you do have clubroot on the farm, they can help manage spore levels

and keep disease low when grown in a minimum 3-year rotation. 2nd Generation CR varieties have a different assortment of resistance genetics that may give added protection against clubroot pathotypes (like 3A and 3D) which have evolved to overcome 1st Generation CR resistance. However, not all 2nd Generation CR varieties are the same - they may each have distinctive assemblies of resistance genetics which can result in varying levels of protection against these new pathotypes. Although 2nd Generation CR varieties are not silver bullets, they are a good choice for growers in regions where 1st generation clubroot resistance is beginning to lose its effectiveness.

When used in an integrated disease management plan including crop rotation, growing CR varieties can offer a durable approach to managing clubroot.

TruFlex™ canola provides enhanced flexibility in spray rates and timing to deliver next-level weed control. Built on Roundup Ready® technology, it offers the flexibility to manage more weed species to help exceed yield expectations.

	HYBRID	DESCRIPTION	YIELD (CHECK 45H33)	STANDABILITY (1-5, 5=FLAT)	MATURITY (DAYS)	HEIGHT (CM)	BLACKLEG RATING	AGRONOMIC FEATURES
	PV 760 TM	Earlier maturing TruFlex™ Canola with Roundup Ready® Technology and pod shatter reduction traits allows growers to have the flexibility at harvest to straight cut or delay swathing. PV 760 TM brings a wider spray window and application rate flexibility helping growers maximize yields in all geographies in Western Canada.	102%	2.0 Excellent	-0.3	+1.0	R	Flexibility in application rate and staging providing improved weed control. Harvest management hybrid.
	PV 761 TM	A high yielding TruFlex Canola hybrid. PV 761 TM provides growers flexibility on herbicide rates, application windows and harvest management. Following Proven® Seed's high standards on blackleg protection and standability, this hybrid is designed to perform.	104%	2.1 Excellent	+1.7	+7.0	R	High yielding hybrid with TruFlex Roundup Ready technology for flexibility in application rate and staging providing improved weed control. Harvest management hybrid.
	PV 780 TC	A TruFlex canola hybrid with Roundup Ready technology and clubroot resistance. PV 780 TC brings a wider spray window and application rate flexibility helping growers maximize yields in all geographies in Western Canada.	102%	2.0 Excellent	+0.3	-0.5	R	Flexibility in application rate and staging providing improved weed control. Clubroot resistance.
	PV 781 TCM^{NEW}	An exciting new TruFlex Proven Seed canola hybrid with excellent yield. PV 781 TCM has early maturity with Clubroot resistance, a strong Blackleg rating with major gene resistance and excellent standability. 781 TCM is a Harvest Management hybrid that is suitable for straight cutting.	106%	1.7 Excellent	+0.3	-0.5	R	High yielding hybrid with TruFlex Roundup Ready technology for flexibility in application rate and staging providing improved weed control. Harvest management hybrid.

Source: 2019 & 2020 Nutrien Ag Solutions® Local Performance Checks – 11 locations, 63 replicates

As weed management becomes increasingly complex, the LibertyLink® system offers a different solution to tackle tough weeds. Proven® Seed has three LibertyLink hybrids, featuring high-performing genetics and excellent weed control for strong yields.

	HYBRID	DESCRIPTION	YIELD (CHECK INVICOR L233P)	STANDABILITY (1-5, 5=FLAT)	MATURITY (DAYS)	HEIGHT (CM)	BLACKLEG RATING	AGRONOMIC FEATURES
	PV 660 LCM	This LibertyLink hybrid from Proven Seed provides yield performance, harvest management and clubroot protection. PV 660 LCM has it all, supplying a solid choice for all growing zones across Western Canada.	99%	1.9 Excellent	+2.6	+7.0	R	High yield, mid-late maturity, clubroot resistance, Liberty herbicide resistance, harvest management hybrid.
	PV 680 LC	PV 680 LC is a LibertyLink hybrid from Proven Seed with strong resistance to blackleg and clubroot. This high yielding hybrid will excel in rotations across Western Canada.	102%	1.7 Excellent	+0.8	+10.0	R	High yield, clubroot resistance, Liberty herbicide resistance.
	PV 681 LC	PV 681 LC is one of the earliest maturing LibertyLink hybrids offered in Western Canada. Suitable for all growing zones and offering excellent yield potential and clubroot resistance. This hybrid is an excellent choice for growers looking for an earlier maturing LibertyLink hybrid with clubroot protection.	100%	1.5 World Class	-1.3	-1.0	R	Early to mid-maturity, high yield, Liberty herbicide resistance, clubroot resistance.

Source: 2019 & 2020 Nutrien Ag Solutions Local Performance Checks – 11 locations, 63 replicates



A selection of top-performing canola hybrids with Roundup Ready® technology for growers who prefer leading genetics and high yield potential coupled with a simple approach to weed management including broad application flexibility.

	HYBRID	DESCRIPTION	YIELD (CHECK DK 75-65)		STANDABILITY (1-5, 5=FLAT)	MATURITY (DAYS)	HEIGHT (CM)	BLACKLEG RATING	AGRONOMIC FEATURES	
	PV 560 GM	A hybrid that can reduce the risk of harvest losses in canola from pod shatter and pod drop. A great option that delivers harvest flexibility for swathing or straight cut situations.	104%		1.7 Excellent	+1.3	+13.0	MR	High yield, Pioneer Protector® HarvestMax traits.	
	PV 581 GC	A high-yielding clubroot resistant hybrid with very good standability. An exceptional tool for use within a responsible clubroot management rotation.	105%		1.8 Excellent	+2.3	+11.0	R	High yield, Pioneer Protector® clubroot resistance traits.	

Source: 2019 Nutrien Ag Solutions® Local Performance Checks - 10 locations, 30 replicates



Proven® Seed offers leading canola hybrids with the Clearfield® production system. Clearfield canola offers growers an option for the control of volunteer non-Clearfield canola, making it a strong tool for rotation management.

	HYBRID	DESCRIPTION	YIELD (CHECK 45H33)		STANDABILITY (1-5, 5=FLAT)	MATURITY (DAYS)	HEIGHT (CM)	BLACKLEG RATING	AGRONOMIC FEATURES
	PV 200 CL	A high-yielding Clearfield® hybrid that performs as well as the best in the industry but with the addition of an improved standability rating and non-GMO contract premium offerings.	108%		2.4 Good	+1.3	+4.0	R	High yield, standability, non-GMO.
	PV 280 CLC^{NEW}	A new early maturing Clearfield hybrid with outstanding yield potential. Excellent standability rating combined with multigenic clubroot resistance. Non-GMO contract premium offering.	120%		1.8 Excellent	-2.3 (PV 200 CL)	+4.0	R	Impressive yield, multigenic clubroot protection, Clearfield Herbicide Technology, non-GMO.

Source: 2019 & 2020 Nutrien Ag Solutions Local Performance Checks - 11 locations, 63 replicates

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InVigor® hybrid canola represents the latest advancements in hybrid canola innovation and solutions. With a wide range of InVigor options and maturities, you can grow multiple InVigor hybrids to spread out your harvest. No matter which hybrids you choose to grow, you get genetics you can depend on.

HYBRID	YIELD	ZONE	AGRONOMIC TRAIT	BLACKLEG RATING	STANDABILITY	MATURITY	DESCRIPTION
InVigor L350PC^{NEW*}	115.6% of the official WCC/RRC** checks (InVigor L255PC and Pioneer 45H33) in 2020 & 2021 BASF internal trials. 108.9% of InVigor L340PC (N=22 2021). 114.3% of InVigor L233P (N=36 2020 & 2021).	Mid- to long growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance	R	Very strong	1 day later than InVigor L255PC	Looking for a high-yielding hybrid in the mid to long growing zones? InVigor L350PC has it all. InVigor's highest yielding hybrid in trials to date, this hybrid combines standability, first generation clubroot resistance and our patented Pod Shatter Reduction technology. Give this one a try in 2023.
InVigor LR354PC^{NEW*}	114.3% of the official WCC/RRC checks (InVigor L255PC and Pioneer 45H33) in 2020 & 2021 BASF internal trials. 110.9% of InVigor LR344PC (N=33 2020 & 2021). 112.5% of InVigor L233P (N=33 2020 & 2021).	Mid- to long growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance resistance LibertyLink® technology system and TruFlex™ canola with Roundup Ready® Technology	R	Very strong	1/2 to 1 day later than InVigor LR344PC	New InVigor LR354PC offers growers high yield potential and great standability; with the added flexibility of harnessing both the LibertyLink® technology system and TruFlex™ canola with Roundup Ready® Technology.
InVigor L343PC	111.3% of the checks (InVigor L233P and Pioneer 45H33) in the 2019 & 2020 WCC/RRC** trials 106% of InVigor L233P (N=43 2019&2020)	All growing zones in Western Canada	Pod shatter reduction, 2 nd generation clubroot resistance	R	Strong	1 day later than InVigor L234PC	InVigor L343PC is a go-to choice when you want high yield potential in areas where you need second generation clubroot resistance. Offers pod shatter reduction and improved standability over InVigor L234PC. We recommend growing InVigor L343PC with second generation clubroot resistance after two cycles of growing first generation clubroot-resistant hybrids in clubroot-affected areas or when clubroot symptoms are noticed in first generation clubroot-resistant hybrids (whichever comes first).
InVigor L356PC	113.8% of the checks (InVigor L233P and Pioneer 45H33) in the 2019 & 2020 WCC/RRC trials 108.8% of InVigor L233P (N=38 2019 & 2020)	All growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance	R	Strong	1/2 day earlier than InVigor L255PC	InVigor L356PC has high yield potential in the mid to long growing zones. It also combines first-generation clubroot resistance with Pod Shatter Reduction technology and features strong standability.
InVigor L357P	112.9% of the checks (InVigor L233P and Pioneer 45H33) in the 2018 & 2019 WCC/RRC trials 109.7% of InVigor L233P (n=39, 2018 & 2019)	Mid- to long growing zones in Western Canada	Pod shatter reduction	R	Very strong	1/2 day later than InVigor L252	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 who irrigate or when lodging is a concern in non-clubroot areas.
InVigor L340PC	108.9% of the checks (InVigor L233P and Pioneer 45H33) in the 2019 WCC/RRC trials 107.8% of InVigor L233P (n=16, 2019)	All growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance	R	Strong	1 day earlier than InVigor L252	InVigor L340PC has it all - high yield, Pod Shatter Reduction technology, first-generation clubroot resistance and strong standability. It is a great fit for growers who irrigate or when lodging is a concern.
InVigor L345PC	111.9% of the checks (InVigor 5440 and Pioneer 45H29) in the 2017 & 2018 WCC/RRC trials 111.4% of InVigor L233P (n=28, 2018)	All growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance	R	Strong	1 day earlier than InVigor L252	InVigor L345PC performed very well in our 2021 Demonstration Strip Trials. You can further improve the standability of InVigor L345PC by avoiding short rotations, fields with high volunteer canola populations, high levels of fertility or under irrigation.
InVigor L234PC	104% of the checks (InVigor 5440 and Pioneer 45H29) in 2017 WCC/RRC trials	All growing zones in Western Canada	Pod shatter reduction, 2 nd generation clubroot resistance	R	Good	3 days earlier than the average of the checks	This early-maturing Pod Shatter Reduction hybrid contains second-generation clubroot resistance. You can further improve the standability of InVigor L234PC by avoiding short rotations, fields with high volunteer canola populations, high levels of fertility or under irrigation. We recommend growing InVigor L234PC with second generation clubroot resistance after two cycles of growing first generation clubroot-resistant hybrids in clubroot-affected areas or when clubroot symptoms are noticed in first generation clubroot-resistant hybrids (whichever comes first).
InVigor L255PC	109% of the checks (InVigor 5440 and Pioneer 45H29) in 2016 WCC/RRC trials	Mid- to long growing zones in Western Canada	Pod shatter reduction, 1 st generation clubroot resistance	R	Very strong	1 1/2 days later than the average of the checks	InVigor L255PC is a Pod Shatter Reduction hybrid with first-generation clubroot resistance. It's a great fit for growers in the mid to long growing zones and in fields under irrigation, fields with high levels of fertility or when lodging is a concern.
InVigor L241C	102% of the checks (InVigor 5440 and Pioneer 45H29) in 2012/2013 WCC/RRC trials	All growing zones in Western Canada	1 st generation clubroot resistance	R	Very strong	1 day earlier than the average of the checks	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.
InVigor L233P	108.8% of the checks (InVigor 5440 and Pioneer 45H29) in 2014-2015 WCC/RRC trials	All growing zones in Western Canada	Pod shatter reduction	R	Strong	Over 3 days earlier than the average of the checks	InVigor L233P has been grown on more acres than any other InVigor canola hybrid in Western Canada. Featuring patented Pod Shatter Reduction technology, this early maturing, high-yielding hybrid provides the harvest flexibility you can count on.

Please note: Maturity, height and standability are based on performance ratings and data compiled from several InVigor internal trials over multiple years. Results may vary on your farm due to environmental factors and preferred management practices

n=# of trials

*Pending registration

**Western Canada Canola/Rapeseed Recommending Committee

InVigor L350PC, InVigor L255PC, InVigor L345PC, InVigor L356PC, InVigor Choice LR354PC and InVigor L241C all share the same first generation clubroot resistance profile. InVigor L234PC and InVigor L343PC have this resistance profile plus it contains second generation multi-genetic clubroot resistance to additional clubroot pathotypes to help combat evolving clubroot pathogens.

** Western Canadian Canola/Rapeseed Recommending Committee (WCC/RRC)

High Yields and Maximum Returns

Maximize your canola acre profit opportunity and support the North American food industry. Plant a Brevant™ seeds Nexera® canola hybrid and get high yields, the convenience of Roundup Ready® or Clearfield® production systems, great agronomic characteristics like clubroot, blackleg and lodging resistance and the HarvestMax maximum yield management trait. There are hybrids for every farm.

	HYBRID	EARLY SEASON VIGOUR ¹	DAYS TO MATURITY (± 93010M)	LODGING ²	BLACKLEG ³	CLUBROOT	STRAIGHT CUT ⁴
ROUNDUP READY®							
1028 RR		7	+3.0 days	9	R	R	N
B1030N		7	+3.5 days	9	R	R	N
CLEARFIELD®							
B2030MN		7	+2.5 days	9	R	R	N
2028 CL		7	+3.0 days	9	R	R	N

¹Early Season Vigour Scale: 9=Excellent, 5=Average, 1=Poor
²Lodging Scale: 9=Excellent, 5=Average, 1=Poor
³Blackleg Scale: R=Resistant
⁴Can be considered for straight cutting
⁵Average of 2017 Advanced Demonstration Trial Results.
 Maturity data based on 2019-2020 Corteva Agriscience research data.

Brevant.ca



Lumiderm™

INSECTICIDE SEED TREATMENT

Key benefits

- Enhanced crucifer and striped flea beetle protection
- Excellent control of early season cutworms
- Excellent early season seedling stand establishment, vigour and biomass
- Up to 35 days of protection through the critical stages of seedling growth
- Novel class of chemistry (Group 28) for resistance management

Serious seed protection. Get serious flea beetle and cutworm protection.

Lumiderm™ insecticide seed treatment provides excellent plant protection against both flea beetles and cutworms in one convenient bag.



Standard Treatment | Lumiderm™

Source: Seven Persons, AB. 42 Days After Seeding.



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BUTEO™ start

NEW BUTEO™ start insecticide seed treatment for canola provides superior protection against striped and crucifer flea beetles. Start your season strong with BUTEO start.

Features and Benefits:

- Powerful Group 4D Insecticide (flupyradifurone) that offers immediate and sustainable protection
- Rapid uptake and systemic translocation from cotyledon to leaf margins allows for a strong plant right off the start, even in dry conditions
- Stronger plant development leads to quicker canopy, more uniform flowering and better maturity
- Works great in combination with Prosper® EverGol®

BUTEO start. Powerful protection from the start.



Source: Bayer Market Development Trials, 2019, Rosthern, SK



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DEKALB® is excited to offer 12 straight cut/straight cut plus hybrids and seven clubroot hybrids for the 2023 season. DEKALB now also offers multiple herbicide trait technologies like TruFlex™ canola, DEKALB LibertyLink® canola and TruFlex™ LibertyLink® canola. DEKALB truly has a hybrid for every canola farmer.

HYBRID	YIELD*	HERBICIDE TRAIT	MATURITY RATING*	BLACKLEG RATING	AGRONOMIC TRAIT	STANDABILITY	DESCRIPTION
DEKALB TRUFLEX™ CANOLA							
DK900TF^{NEW}	110.1% of DKTF 96 SC. Source: 34 Bayer Market Development trials (2020,2021)	TruFlexTM CANOLA	Mid Maturity	R Rating (A, E2)		VG	Combines strong performance and excellent disease protection. This high yield potential hybrid has excellent harvestability with test results showing a yield increase over DKTF 96 SC. Straight cut plus hybrid with built in trait for improved pod integrity and enhanced pod shatter protection. Clubroot- resistance to predominant pathotypes.
DK901TF^{NEW}	104.1% of DKTF 98 CR. Source: 41 Bayer Market Development trials (2020,2021)	TruFlexTM CANOLA	Mid Maturity	R Rating (A,G)		VG	Offers a new novel source of multi-genetic clubroot resistance within the DEKALB® hybrid lineup that provides durable protection against a broad spectrum of clubroot pathotypes including 3H, 3A, 2B and 5L. High yield potential hybrid with straight cut genetics giving harvest flexibility to delay swathing or straight cut. Mid-maturity, Similar to DKTF 98 CR. Well suited to all clubroot zones tested.
DK902TF^{NEW}	106.0% of DKTF 93 SC. Source: 34 Bayer Market Development trials (2020,2021)	TruFlexTM CANOLA	Ultra Early Maturity	R Rating (A)		G	An ultra early maturity hybrid with an excellent fit in short growing zones while also delivering strong yield potential and straight cut genetics. Multi-genetic clubroot resistance hybrid that provides durable protection against a broad spectrum of clubroot pathotypes. Ultra early maturity, similar maturity to 75-45 RR.
DKTF 99 SC	103.0% of 45CM39. Source: 27 Bayer Market Development trials (2019, 2020)	TruFlexTM CANOLA	Mid Maturity	R Rating (G)		EXC	Straight cut hybrid with excellent yield potential that offers outstanding performance and harvestability. TruFlex canola providing enhanced weed control and flexibility in spray timing and rates. Strong standability.
DKTF 98 CR	99.6% of 45CM39 yield. Source: 30, 2019 Bayer Market Development trials (2019)	TruFlexTM CANOLA	Mid Maturity	R Rating (A,C)		VG	Multi-genetic clubroot resistance hybrid that provides durable protection against a broad spectrum of clubroot pathotypes. TruFlex canola providing enhanced weed control and flexibility in spray timing and rates. Maturity – Well suited to all clubroot zones tested.
DKTF 97 CRSC	98.6% of 45CM39 yield. Source: 30, 2019 Bayer Market Development trials (2019)	TruFlexTM CANOLA	Mid Maturity	R Rating (A,G)		VG	Strong yield potential, straight cut genetics, clubroot protection and an excellent blackleg rating all in one hybrid. TruFlex canola providing enhanced weed control and flexibility in spray timing and rates. Clubroot - resistance to predominant pathotypes.
DKTF 96 SC	100.9% of 45CM39. Source: 16 Bayer Market Development trials (2019)	TruFlexTM CANOLA	Mid Maturity	R Rating (A,G)		EXC	Strong yield potential DEKALB® hybrid with straight cut plus genetics with improved pod integrity. TruFlex canola providing enhanced weed control and flexibility in spray timing and rates.
DKTF 93 SC	99.6% of DKTF 96 SC. Source: 26 Bayer Market Development trials (2019,2020)	TruFlexTM CANOLA	Ultra Early Maturity	R Rating (G)		VG	An excellent fit for the short season growing zones, offering a strong yield potential and straight cut genetics. TruFlex canola providing enhanced weed control and flexibility in spray timing and rates. Ultra early maturity.
DEKALB LIBERTYLINK® CANOLA							
DKLL 84 SC	102.9% of DKLL 82 SC. Source: 32 Bayer Market Development trials (2019,2020)	LIBERTY LINK	Mid Maturity	R Rating		G	A DEKALB® LibertyLink® hybrid that features an excellent disease package with both clubroot and blackleg resistance, in addition to straight cut genetics and high yield potential. Includes the LibertyLink® trait providing tolerance to Liberty® herbicide (not glyphosate tolerant). Mid maturity- well suited to all clubroot zones tested.
DKLL 83 SC	103.9% of DKLL 82 SC. Source: 54 Bayer Market Development trials (2019,2020)	LIBERTY LINK	Early Maturity	R Rating		VG	A DEKALB LibertyLink® hybrid featuring early maturity along with a high yield potential. Straight cut plus hybrid with built in trait for improved pod integrity and enhanced pod shatter protection. Includes the LibertyLink® trait providing tolerance to Liberty® herbicide (not glyphosate tolerant).
DKLL 82 SC	97.9% of L233P. Source: 32 Bayer Market Development trials (2019)	LIBERTY LINK	Early Maturity	R Rating (A,C,G)		EXC	Strong yield potential DEKALB® hybrid with straight cut plus, with built in trait for improved pod integrity and enhanced pod shatter protection. Includes the LibertyLink® trait providing tolerance to Liberty® herbicide (not glyphosate tolerant). Early maturity.
DEKALB TRUFLEX™ LIBERTYLINK® CANOLA							
DKTFLL 22 CRSC	105.0% of DKTFLL 21 SC in yield. Source: 31 Bayer Market Development trials (2019,2020)	TruFlexTM LIBERTY LINK	Mid Maturity	R Rating (A,G)		VG	A hybrid for growers looking for complete flexibility and protection in their operation. It features straight cut genetics, clubroot resistance, a strong blackleg package and excellent yield potential. Clubroot- resistance to predominant pathotypes.
DKTFLL 21 SC	103.8% of 45CM39 in yield. Source: 13 Bayer Market Development trials (2019).	TruFlexTM LIBERTY LINK	Early Maturity	R Rating (A,C,G)		EXC	DEKALB TruFlex™ canola with Roundup Ready® and LibertyLink® Technologies. Straight cut plus genetics with improved pod integrity and enhanced pod shatter protection. Strong blackleg resistance.

*Source: Bayer Market Development trials. Your results may vary according to agronomic, environmental and pest variables.
Maturity: Bayer Market Development Trials. Your results may vary according to agronomic, environmental and pest variables.
Standability Rating 1- 9; 1=Excellent, 9=Poor | Blackleg Labelling (Resistance Genes); A=LepR3, C=RLms3, E2=Rlm7, G=Rlm5



The Proven Path to Higher Profits

Once again, the PV Profits Program from Nutrien Ag Solutions® returns, giving you even more savings on the seed and crop inputs you know and trust.

The PV Profits program links Proven® Seed lines with rebates on nitrogen fertilizer and crop protection products, as well as savings with sustainability practices. The program currently applies to canola, corn, soybean, cereal and mustard seed.

Saving with PV Profits is easy! Simply book your Proven Seed and qualifying products by certain deadlines and you'll earn a rebate per acre, which will be delivered as a credit on your account at Nutrien Ag Solutions.

PV Profits is a proven way to keep more money in your wallet.

For more information on qualifying products and booking deadlines, visit your local Nutrien Ag Solutions retail or www.provenseed.ca.



MUSTARD



Varieties for a wide range of conditions

Mustard growers need varieties that succeed in specific growing conditions, while meeting buyer demand and delivery contract requirements. Nutrien Ag Solutions® improves your opportunity to succeed with our Proven® Seed portfolio: great genetics in Yellow, Brown and Oriental mustard varieties.

Talk to your local Nutrien Ag Solutions retail to see if mustard fits into your plans.

Available untreated or with seed treatment.

VARIETY	YIELD	MATURITY (DAYS)	HEIGHT (CM)	BLACKLEG	WHITE RUST	AGRONOMIC FEATURES
YELLOW (SINAPSIS ALBA)						
Andante	101% of AC Pennant	90	95	R	S	High contract demand, Improved seed weight, Can be straight combined.
AC Pennant	100% (check)	92	101	R	S	Can be straight combined.
AAC Yellow 80 ^{NEW*}	109% of Andante	92	128	R	S	New composite yellow variety. Offering higher yields and a cleaner harvest sample.
BROWN (BRASSICA JUNCEA)						
Centennial Brown	103% of Duchess	92	133	R	S	Lower green seed counts, Improved seed weight.
AAC Brown 18*	120% of Centennial Brown	91	138	R	R - 2a S - 2v	Hybrid mustard - higher yield potential, improved disease package.
ORIENTAL (CONDIMENT)						
Cutlass	100% (check)	90	113	R	R - 2a S - 2v	Improved seed weight.
Forge	97% of Cutlass	92	124	R	R	Low green seed counts.

Source: 2006 Co-operative Mustard Report

*Source: 2021 Yield Data - Mustard 21

R=Resistant, S=Susceptible



Proven[®] SEED

Good to grow

Nutrien Ag Solutions[®] invests in research and development to improve the opportunities for our customers. With high omega-3 fatty acid and fibre content the Proven[®] Seed flax lineup has great human health benefits — and real potential for growers.

Proven Seed flax varieties feature better yields and improved standability. Ask your Nutrien Ag Solutions retail for more information.

WestLin 72 | The performance leader

WestLin 72 continues to be a leader in flax yield performance. A traditional brown seeded flax variety, WestLin 72 offers good disease resistance, a strong oil profile and exceptional yield performance and yield stability.

WestLin 60 | Early maturing

WestLin 60 with its early maturity rating offers the ability to grow flax in regions with shorter growing seasons.


NuLin 50 | A healthier profile

A yellow seeded flax variety offering a yield advantage over the check, enhanced omega-3 levels and high levels of oil and protein content. NuLin 50 is a NuLin[®] flax agronomically similar to traditional flax varieties, but due to its healthier profile, it gives growers access to premium end-use markets.

Unlocking opportunity

Purchasing seed from Nutrien Ag Solutions can also unlock marketing opportunities for growers through our industry partners.

Nulin 50 is the only yellow flax of its type. Nutrien Ag Solutions has partnered with Scoular Canada Ltd, meaning growers can contract their crop through Scoular for access to premium end use markets. Contact your local Scoular Representative for details on production contracts.

VARIETY	YIELD (% OF CDC BETHUNE)	MATURITY (+/- CDC BETHUNE)	HEIGHT (CM)	
WestLin 72	103	+2.5	55.0	
WestLin 60 ^{NEW}	98	-1.0	53.0	
NuLin 50	103	+2.0	54.4	

Source: 2011-2019 Nutrien Ag Solutions Local Performance Checks

"Progress through Research" symbolizes a plant variety protected by PBR. The Plant Breeders' Rights logo is a registered trademark of the Canadian Seed Trade Association.



Greetings! I'm Wilt Billing, Product Manager for corn and soybeans for Nutrien Ag Solutions[®] Canada. Over the past 20 years, soybeans have successfully become a staple of Western Canadian crop production. With investment in early genetics including improved traits and performance, they're here to stay - providing an excellent rotational crop across the West.

At Proven[®] Seed, we successfully integrated our soybean portfolio into Roundup Ready 2 Xtend[®] technology. We continue to evaluate new herbicide options such as XtendFlex[®] and EnList E3[®] in high yielding soybean germplasm. We transitioned our overall soybean portfolio to include the best soybean genetics, providing only the best soybean product to our customers.

Choose the right soybeans for your farm

SOYBEANS

PROVEN SEED																				
PV 27s0005R2X ^{NEW}	SEASON SUITABILITY	HERBICIDE TECHNOLOGY	RELATIVE MATURITY	HEAT UNITS	SHORT SEASON	MID SEASON	FULL SEASON	PRODUCTION & MANAGEMENT	SUITABLE FOR WIDE ROW	SUITABLE FOR NARROW ROW	ROLLING OR ROCKY FIELDS	IRON DEFICIENCY CHLOROSIS RESISTANCE	STANDABILITY	EMERGENCE	PEST RESISTANCE	WHITE MOLD	PHYTOPHTHORA ROOT ROT ^{**}	SOYBEAN CYST NEMATODE		
		RR2X	0005	2175	🌿🌿🌿	🌿					🌿🌿🌿	🌿🌿	🌿🌿	🌿🌿		🌿🌿	🌿🌿	🌿🌿🌿	Rps1c	🌿🌿
		PV 24s0008R2X ^{NEW}	RR2X	0008	2250	🌿🌿🌿	🌿🌿				🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿		🌿🌿	🌿🌿🌿	🌿🌿🌿	Rps1c	🌿🌿
		PV 15s0009R2X	RR2X	0009	2300	🌿🌿🌿	🌿🌿		🌿		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿		🌿🌿🌿	🌿🌿	🌿🌿	Rps1c	🌿🌿
		PV 28s001R2X ^{NEW}	RR2X	001	2325	🌿🌿🌿	🌿🌿		🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿		🌿🌿	🌿🌿	🌿🌿	Rps1c	🌿🌿
		PV 22s002R2X	RR2X	002	2350	🌿🌿	🌿🌿🌿		🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿	Rps1k	🌿🌿
		PV 004XF13 ^{NEW}	RRXF	004	2400	🌿🌿	🌿🌿🌿		🌿🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿	🌿🌿		🌿🌿🌿	🌿🌿	🌿🌿	Rps1c	🌿🌿
		PV 16s004R2X	RR2X	004	2400	🌿	🌿🌿🌿		🌿🌿		🌿🌿🌿	🌿🌿	🌿🌿🌿	🌿🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿	Rps1k	🌿🌿
		PV 25s005R2X ^{NEW}	RR2X	005	2425		🌿🌿🌿		🌿🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿		🌿🌿🌿	🌿🌿🌿	🌿🌿	Rps1c	
PV 26s007R2X ^{NEW}	RR2X	007	2475		🌿🌿	🌿🌿🌿		🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿🌿	🌿🌿		Rps1c	🌿🌿				

🌿🌿🌿 BEST OPTION 🌿🌿 BETTER OPTION 🌿 GOOD OPTION ☐ NONE

STS = Sulfonylurea-tolerant soybeans

**For more information regarding Phytophthora, visit www.apsnet.org/edcenter

RR2X= **ROUNDUP READY 2 XTEND** SOYBEANS RRXF= **XTENDFLEX** SOYBEANS

VARIETY	HERBICIDE TECHNOLOGY	RELATIVE MATURITY	HEAT UNITS	FLOWER COLOUR	PUBESCENCE COLOUR	POD COLOUR	HILUM COLOUR	GROWTH HABIT	ROW WIDTH SUITABILITY	PLANT HEIGHT FOR MATURITY	STANDABILITY	EMERGENCE	NO TILL ADAPTABILITY	SCN RESISTANCE	PRR GENE	PRR FIELD TOLERANCE	IRON DEFICIENCY CHLOROSIS	WHITE MOLD	BROWN STEM ROT	AGRONOMIC FEATURES
PV 27s0005 R2X^{NEW}	RR2X	0005	2175	P	T	BR	BL	M-Bush	Narrow	Med	8	8	8	R	Rps1k	6	8	6	6	Ultra early, outstanding yield for maturity. Strong disease profile that include above average WM, SCN, good PRR package in such an early soybean. Best suited west of the Red River Valley and in new soybean areas.
PV 24s0008 R2X^{NEW}	RR2X	0008	2250	P	T	BR	BL	Upright	Med	Med-Tall	6	8	9	R	Rps1c	6	8	7	5	Strong yield performance versus industry leading checks. Medium to medium-tall plant with solid agronomics. Strong disease package.
PV 15s0009 R2X	RR2X	0009	2300	P	T	BR	BL	Upright	Narrow - Med	Tall	9	6	5	R	Rps1c	4	6	5	5	Tall variety that stands well with very nice appearance. Excellent yield for maturity with SCN resistance. Well suited to light fertile soils and narrow rows.
PV 28s001R2X^{NEW}	RR2X	001	2325	P	T	BR	BL	M-Bush	Narrow - Med	Tall	6	6	6	R	Rps1c	6	8	6	5	Strong yield over commercial checks. Big tall plant allows for narrow and wide row planting. Strong IDC ratings, with resistance to SCN and Rps1c gene for Phytophthora.
PV 22s002 R2X	RR2X	002	2350	P	T	BR	BL	M-Bush	Narrow - Wide	Tall	6	8	9	R	Het Rps1k	7	8	6	8	Very positive yield story from multi-year data. Great on clay – tall, bushy and yielding. Very strong disease package and defense trait package.
PV 004XF13^{NEW}	RRXF	004	2400	P	LT	BR	BL	M-Bush	Narrow - Wide	Med	7	6	6	R	Rps1c	7	6	7		Has the agronomics and yield potential to be planted on any acre. Herbicide options available to combat herbicide resistant weed pests. Well suited to lighter soil textures.
PV 16s004 R2X	RR2X	004	2400	P	T	BR	BL	M-Bush	Med - Wide	Tall	4	8	9	R	Rps1k	7	6	5	4	Tall bushy variety with nice appearance. Good choice for heavier soils and wider rows. Rps1k, good PRR field tolerance and SCN. Strong performance under tough conditions.
PV 25s005 R2X^{NEW}	RR2X	005	2425	P	LT	TN	IY	M-Bush	Narrow - Wide	Med-Tall	6	7	9	S	Rps1c	8	6	6		Very good yielding bean with good stress tolerance and stable performance. Strong overall disease package with first class Phytophthora tolerance. Well suited for all soil types and all row widths.
PV 26s007 R2X^{NEW}	RR2X	007	2475	P	T	BR	BL	M-Bush	Narrow - Mid	Tall	8	6	6	R	Rps1c	5	8		8	Strong yield, with market leading checks. Narrow row fit with strong agronomics. Good defensive package for Western Canada.

Rating scale: All numerical ratings are on a 1-9 scale where 9=best
 Flower Colour: P= Purple
 Pubescence: G=Grey T=Tawny LT=Light Tawny
 Pod Colour: TN=Tan BR=Brown
 Hilum Colour: IY=Imperfect Yellow BL=Black G=Grey



PRR = Phytophthora Root Rot
 SCN = Soybean Cyst Nematode
 WM = White Mold

VARIETY	HERBICIDE TECHNOLOGY	RELATIVE MATURITY	HEAT UNITS	FLOWER COLOUR	PUBESCENCE COLOUR	POD COLOUR	HILUM COLOUR	AVERAGE SEED SIZE	PLANT HEIGHT FOR MATURITY	STANDABILITY	EMERGENCE	SCN RESISTANCE	PRR GENE	PRR FIELD TOLERANCE	IRON DEFICIENCY CHLOROSIS	WHITE MOLD TOLERANCE	BROWN STEM ROT	AGRONOMIC FEATURES
S0007-S1X^{NEW}	RR2X	0007	2225	P	LT	TN	IY	M	M	4	3	s	Rps1c Rps3a	2	3	4		Strong agronomics with great yield potential. Solid tolerance to Iron Deficiency Chlorosis. Excellent yield with strong performance across yield levels.
S0009-F2X	RR2X	0009	2275	P	LT	TN	BR	S	M	3	3	S	Rps1c	4	2	4	3	Narrow leaf variety with strong yield potential. Excellent iron deficiency chlorosis tolerance. Best performance on medium to coarse textured soils.
S0009-M2	RR2Y	0009	2275	P	LT	BR	IY	M	M	3	3	S	Rps6	3	3	3	4	High yield potential with very good stress tolerance. Maintains medium height across variable environments. Superb iron deficiency chlorosis.
S001-D8X	RR2X	001	2300	P	T	BR	IY	S	MT	3	3	S	Rps1c	4	3	3	3	Excellent yield with a solid agronomic package. Very good standability and tolerance to white mold. Strong stress tolerance with stable yield.
S003-Z4X	RR2X	003	2325	P	G	BR	BF	M	M	3	2	S	Rps1c	4	3	4	4	Consistent performance with top-end yield potential. Excellent standability with good tolerance to White Mould. Best performance on medium to coarse textured soils.
S003-R5X^{NEW}	RR2X	003	2325	P	LT	BR	IY	L	MS	3	3	S	Rps1c	2	4	3		Outstanding yield with broad-acre adaptability. Excellent standability with very good tolerance to Sclerotinia White Mold.
S005-C9X	RR2X	005	2350	P	LT	TN	BL	M	M	3	2	S	Rps1c	2	5	3	3	Solid performer that excels in high-yield environments. Solid standability and white mold tolerance. Good stress tolerance and performance across soil types.
S007-Y4	RR2Y	005	2350	P	LT	TN	IY	L	M	2	3	S	Rps1c	3	3	2	5	Recognized yield performer with broad adaptation. Excellent standability for ease of harvest. Solid emergence with excellent white mold tolerance.
S006-K3X^{NEW}	RR2X	006	2375	P	G	TN	BF	S	M	3	3	MR3	Rps1c	3		4		Excellent agronomics with SCN resistance. Branchy bean with performance in all yield environments. Strong standability and resistance to IDC.
S007-A2XS	RR2X/STS	007	2400	P	LT	BR	G	S	MT	3	3	S		4	3	4	3	Outstanding yield with excellent stress tolerance. Stable across yield environments and soil types. Very good standability; suitable for all row widths.

Rating scale: All numerical ratings are on a 1-9 scale where 1=best

Flower Colour: P= Purple

Pubescence: G=Grey T=Tawny LT=Light Tawny

Hilum Colour: BR= Brown IY=Imperfect Yellow BF=Buff BL=Black G=Grey

Pod Colour: TN=Tan BR=Brown



Performance evaluations are based on field observations and public information. Data from multiple locations and years should be evaluated whenever possible. Individual results may vary depending on local growing, soil and weather conditions. Always read and follow pesticide label directions. The Syngenta logo is a registered trademark of a Syngenta Group Company. Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include but are not limited to Roundup Ready 2 Yield® soybeans and Roundup Ready 2 Xtend® soybeans. Patents for Monsanto technologies can be found at the following webpage: www.monsantotechnology.com.

SEEDCARE FOR SOYBEANS	INSECTS/PESTS CONTROLLED	DISEASES CONTROLLED
	Bean leaf beetle, European chafer, Seed corn maggot, Soybean aphid ¹ , Wireworm	Root rot ¹ (<i>Phytophthora megasperma</i> var. <i>sojae</i>) Seedling disease complex (seedling blight, damping off ² , seed rot and root rot) caused by <i>Pythium</i> spp., <i>Fusarium</i> spp., <i>Rhizoctonia</i> spp. and seed-borne <i>Phomopsis</i> spp.

¹ Early-season protection.

² Pre- and post-emergence.

Protect your seed from insects and diseases

Syngenta offers great seed treatment options to meet the needs of your soybean crop while supporting sustainable practices that help preserve the environment. Vibrance® fungicide provides best-in-class Rhizoctonia control with the added benefit of Rooting Power®, delivering stronger roots that can better defend against soil-borne diseases. Cruiser® insecticide provides powerful insect protection plus the Vigor Trigger® effect for improved emergence, great uniformity and enhanced stand establishment.

Always read and follow label directions. Cruiser Maxx Vibrance Beans is an on-seed application of Cruiser Maxx Beans seed treatment insecticide/fungicide and Vibrance 500 FS seed treatment fungicide. Apron XL®, Cruiser®, Cruiser Maxx®, NK®, NK® & Design, Rooting Power®, Syngenta®, Vibrance®, and Vigor Trigger® are trademarks of a Syngenta Group Company. © 2021 Syngenta.



Get higher yield potential from your DEKALB® soybean acres when you combine early season genetics and enhanced chemistry options with the Roundup Ready® Xtend Crop System.

VARIETY	HERBICIDE TECHNOLOGY	RELATIVE MATURITY	HEAT UNITS	FLOWER COLOUR	PUBESCENCE COLOUR	HILUM COLOUR	AVERAGE SEED SIZE	GROWTH HABIT	PLANT HEIGHT FOR MATURITY	STANDABILITY	EARLY VIGOUR	EMERGENCE	NO-TILL ADAPTABILITY	SCN RESISTANCE	PRR GENE	PRR FIELD TOLERANCE	IRON DEFICIENCY CHLOROSIS	WHITE MOLD TOLERANCE	BROWN STEM ROT	AGRONOMIC FEATURES
DKB0005-03 ^{NEW}	RR2X	0005	2175	P	G	IB	S	I	M	1	3	3	3	S	Rps1c	5	2	3	5	Compact, medium-height variety with bushy architecture and excellent standability. Excellent iron deficiency chlorosis tolerance. Performs well across all soil types tested.
DKB0008-87	RR2X	0008	2275	P	T	BL	M	I	M-T	3	3	3	2	R3	Rps1c & 1k	5	3	2	5	Medium to tall, bushy plant that is best seeded in narrow rows (7-15"). An excellent fit for no-till. Avoid placing on poorly drained soils.
DKB0009-89	RR2X	0009	2275	P	T	BL	M	I	M	2	3	3	3	R3	Rps1c & 1k	4	2	1	8	Bushy variety that branches well and may be seeded in narrow to wide rows. Strong disease package with excellent tolerance to Iron Deficiency Chlorosis and white mold plus phytophthora root rot resistance genes Rps1c & 1k.
DKB002-32	RR2X	002	2350	P	LT	BR	S	I	M	2	3	3	3	R3	Rps1k	4	3	2	.	Excellent standability and well adapted to all row widths and soil types tested. Excels in moderate to high fertility environments and is an excellent fit for your best fields. Very good tolerance to iron deficiency chlorosis and excellent tolerance to white mold.
DKB005-52	RR2X	005	2425	P	LT	BL	S	I	M-T	2	3	3	3	R3	Rps1c	2	3	2	5	Performs well in all row widths and soil types tested. May be placed on fields with history of iron deficiency chlorosis.
DKB006-80 ^{NEW}	RR2X	006	2450	P	LT	BL	M	I	M-T	2	2	2	2	R3	Rps1c	4	2	2	2	Medium-to-tall height with excellent standability. Outstanding early season vigour combined with excellent agronomics and disease package including excellent iron deficiency chlorosis and white mold tolerance. Well suited across all soil types and row widths tested.
DKB008-48	RR2X	008	2475	P	LT	BL	M	I	M-T	2	3	2	2	R3	Rps1c & 1k	5	3	3	3	Medium-to-tall variety but may shorten in height in tougher growing conditions. May be seeded in narrow or wide rows and performs well in no-till and conventional tillage.

Rating scale: All numerical ratings are on a 1-9 scale where 1=poor
 Hilum Colour: BR= Brown IB=Imperfect Black BL=Black G=Grey
 SCN Resistance: R3= Resistance to SCN Race 3 S= Susceptible

Flower Colour: P= Purple, W= White
 Growth Habit: I=Indeterminate
 Pubescence: G=Grey T=Tawny LT=Light Tawny

Average Seed Size: S= >6500 seeds/kg M= 5500-6500 seeds/kg L= <5500 seeds/kg



Getting your soybeans off to a strong start can pay big dividends come harvest time. The seed treatment experts at Bayer offer the products, technical expertise and application knowledge to help safeguard your crop. Consider seed treatments part of your insurance policy – protecting vulnerable crops from seed- and soil-borne diseases and insects – delivering the energy they need to emerge, stronger and healthier.



EverGol® Energy seed treatment fungicide provides soybeans with protection against the most important seed and soil-borne diseases caused by rhizoctonia, fusarium, pythium, botrytis and phomopsis. It provides quicker emergence, healthier plants and higher yields. For the complete package of protection, EverGol Energy can be tank-mixed with Allegiance® fungicide for protection against seed rot and seedling blights caused by early season *Phytophthora* spp and Stress Shield® insecticide for superior insect protection, including wireworms.

Always read and follow label directions. Allegiance®, EverGol®, SeedGrowth™ and Stress Shield® are registered trademarks of the Bayer Group. Bayer CropScience Inc. is a member of CropLife Canada.

Roundup Ready® Xtend Crop System

IT'S THE SYSTEM THAT MAKES THE DIFFERENCE

Meet the Roundup Ready® Xtend Crop System. It's the only soybean system combining the high yield potential of Roundup Ready 2 Xtend® soybeans with tolerance to glyphosate and dicamba to give your crop a head-start against kochia, Canada fleabane and other tough grass and broadleaf weeds setting your crop up for maximum yield potential.



Roundup Xtend®2 and XtendiMax®2, both with VaporGrip® Technology, are two chemistry options within the Roundup Ready Xtend Crop System to help you enhance your yield potential.

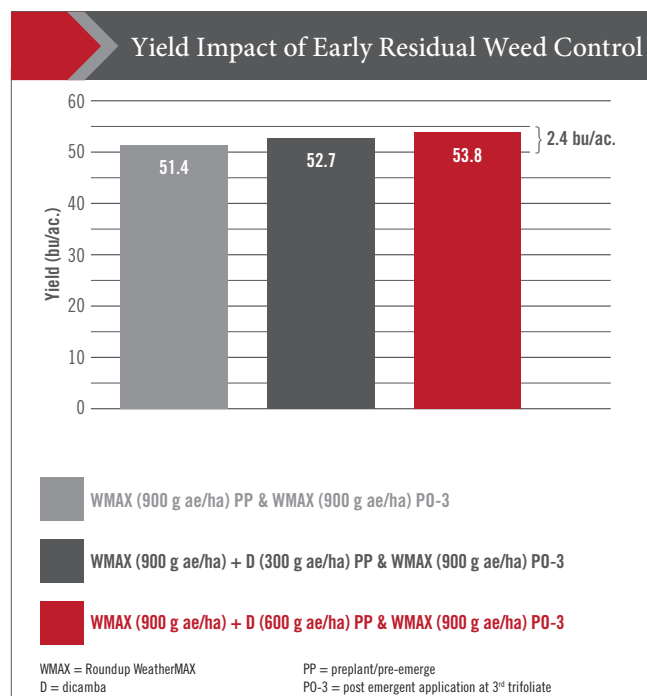
Roundup Xtend 2 herbicide with VaporGrip Technology is a new higher concentrated formulation that combines the power of dicamba and glyphosate to give you broad spectrum control over the toughest weeds. And its easy-to-use, premixed formulation saves you valuable time in the field.

XtendiMax 2 herbicide with VaporGrip Technology is a low-volatility dicamba-only formulation, now available in a higher concentration, which can be tank mixed with glyphosate to give you the weed control you need.

To get the full benefits of the Roundup Ready Xtend Crop system, apply your first herbicide pass between pre-emergence and V2 to provide short-term residual activity on small seeded broadleaf weeds. Research trials showed a 2.4 bu./ac. increase* due to reduced early weed competition from the residual activity of dicamba.

*Source: Bayer Market Development research trials, 2008 – 2014 (n=39). Average of 2.4 bu./ac. advantage over 2-pass glyphosate-only treatment. Your results may vary depending on agronomic, environmental and pest pressure variables.

ALWAYS READ AND FOLLOW GRAIN MARKETING AND ALL OTHER STEWARDSHIP PRACTICES AND PESTICIDE LABEL DIRECTIONS.



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Welcome to the 2023 Seed Guide! I'm Wilt Billing, Product Manager for corn and soybeans for Nutrien Ag Solutions® Canada. I've spent the past 25 years walking and evaluating Western Canadian corn fields, learning to understand what successful corn production requires in Western Canada. With innovative technologies and unprecedented access to products and technology, we at Nutrien Ag Solutions take pride in our industry-leading expertise and close relationships with our growers. 2023 continues that commitment as we are announcing exciting new varieties including silage-specific hybrids. Be sure to contact your local Nutrien Ag Solutions retail for more information!

CORN

Choose the right corn for your farm

CORN

PROVEN® SEED	SEASON SUITABILITY					ALTERNATE USE		AGRONOMICS							
	CHU	RELATIVE MATURITY	TRAIT SEGMENT	EARLY SEASON	FULL SEASON	GRAIN	SILAGE	GRAZING	HIGH MOISTURE GRAIN	EMERGENCE	TEST WEIGHT	STALK STRENGTH	ROOT STRENGTH	PLANT HEIGHT	GOSS'S WILT
PV 60172RR	2050	72	RR2	■■■		■■■	■■■	■■■	■	■■■	■■■	■■■	■■■	■■■	■■■
PV 60273RIB <small>NEW</small>	2100	73	VT2P	■■■		■■■	■■■	■■■	■	■■■	■■■	■■■	■■■	■■■	■■■
PV 60075RIB	2150	75	VT2P	■■■	■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 61276RIB	2175	76	VT2P	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 61177SRR	2200	77	RR2	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 61479RIB <small>NEW</small>	2250	79	VT2P	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 61180RIB	2300	80	VT2P	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 62181SRR <small>NEW</small>	2325	81	RR2	■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 62181SRIB	2350	81	VT2P	■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 62282RIB	2400	82	VT2P		■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 62384RIB	2500	84	VT2P		■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
PV 62485RIB	2550	85	VT2P		■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■

■■■ BEST OPTION ■■■ BETTER OPTION ■■■ GOOD OPTION □ NONE

VT2P= **VTDoublePRO** THE COMPLETE RR2= **Roundup Ready 2** CORN

Proven® Seed introduces Silage Select corn hybrids

SILAGE SELECT corn hybrids introduce a new level of confidence in the Proven Seed portfolio. Each Proven Seed corn hybrid undergoes multiple year evaluations for specific yield and quality components to achieve the SILAGE SELECT designation.

High quality corn silage is an important component of western Canadian feed rations for beef and dairy producers. Proven Seed SILAGE SELECT hybrids are tested and evaluated for specific yield and silage quality parameters to address the needs of a livestock operation.

To be considered SILAGE SELECT the hybrid must meet specific criteria in the following:






- **Yield:** net tons of silage production converted to 35% dry matter.
- **Fiber Digestibility:** fiber (NDF) is fermented and passed from the rumen slowly compared to nonfibrous components such as sugars and starch. Less digestible fiber is retained in the rumen longer than highly digestible fiber. A low NDF content and high NDF digestibility of corn silage is desirable to maximize forage and dry matter intake.
- **Starch content:** is a measure of the energy available to an animal in a forage. Corn silage contains up to 35% starch.

- **Starch digestibility:** is a % of the starch content used by the animal. Many factors, including particle size, kernel processing, storage method, moisture content of high-moisture corn, type of corn endosperm and corn silage maturity influence starch digestibility. At harvest, chop length and kernel processing influence ruminal and or starch digestibility.
- **Milk per ton:** analyzes crude protein, NDF, in vitro NDF digestibility and non-fiber carbohydrate to estimate energy content and in vitro NDF digestibility to predict milk production per ton of dry matter.
- **Crude protein:** is a mixture of true protein and nonprotein nitrogen. Crude protein levels of untreated corn silage range from less than 6% to over 10% of dry matter depending on environmental conditions, fertilization, hybrid and maturity.

- **Water soluble carbohydrates:** are sugars which accumulate in the stem as reserves. They accumulate up to and around tasseling and are partitioned to the stem, from where they are later available for remobilization to the developing grains.
- **Total tract neutral detergent fiber digestibility:** a measure of the extent and speed of fiber digestion throughout the entire tract of a high-producing dairy cow, considering the overall rate of passage of fiber through the digestive tract.

Ratings are given for each category based on performance above the mean score. These scores are added together for rating score.


Only the best scoring hybrids are given the SILAGE SELECT designation.

VARIETY	TECHNOLOGY	RELATIVE MATURITY	CHU	GDU TO MID POLLINATION	GDU TO PHYS MAT	EAR TYPE	RECOMMENDED PLANT POP	KERNEL ROWS	TEST WEIGHT	HUSK COVER	PLANT HEIGHT	EAR HEIGHT	STAY GREEN	GREENSNAP	STALK STRENGTH	ROOT STRENGTH	EARLY VIGOUR	DRYDOWN	GREY LEAF SPOT	NORTHERN LEAF BLIGHT	GOSB'S WILT	SILAGE SELECT	AGRONOMIC FEATURES
PV 60172RR	RR2	72	2050	1085	2094	Semi-Fix	32-34	14-16	VG	Adequate	Med	Med-Low	G	G	G	VG	VG	VG	G	G	G		Ultra early hybrid reduces maturity risk. Very good seedling vigour allows for planting into tough soils. Strong stalks and roots, with very good test weight.
NEW PV 60273RIB	VT2P	73	2100	1072	2048	Semi-Fix	32-34	16	VG	Adequate	Med-Tall	Med	VG		VG	VG	VG	G	G	VG	EXC		Early flowering VT2P hybrid. Very good stalks and test weight. Prefers medium and medium high population.
PV 60075RIB	VT2P	75	2150	903	1742	Fixed	32-34	14-16	EXC	Short	Med	Med	VG	VG	EXC	EXC	VG	VG	G	VG	G		Consistent performance across Western Canada. Great early grain or northern silage option. Excellent spring vigour, strong roots and stalks with very good disease protection.
PV 61276RIB	VT2P	76	2175	1153	2486	Fixed	32-34	16-18	VG	Adequate	Med	Med	VG	EXC	EXC	EXC	VG	VG	G	EXC	EXC		Strong yield for maturity. Great test weight, early flowering, with very strong agronomics. Performs best at higher plant populations.
PV 61177SRR	RR2	77	2200	1040	1990	Semi-Flex	32-34	16-18	EXC	Adequate	Med-Tall	Med-High	VG	VG	VG	VG	G	G	VG	G	G		Strong silage yield potential across mid-maturities. Excellent staygreen and plant health with slow drydown to extend optimal silage harvest window. Strong root and stalk ratings.
PV 61479RIB	VT2P	79	2250	1072	2048	Fixed	32-34	16	VG	Adequate	Med-Tall	Med	VG	VG	VG	VG	VG	G	G	VG	EXC		Very good yield performance for the maturity with very good test weight. Excellent NCLB tolerance. Strong Western performance, with very fast drydown.
PV 61180RIB	VT2P	80	2300	1020	1968	Fixed	32-34	16-18	G	Adequate	Med	Med	VG	G	G	EXC	EXC	VG	G	VG	VG		Elite hybrid with top end yield. Great stress tolerance for tough growing conditions. Good disease package and fast drydown.
NEW PV 62181SRR	RR2	81	2325	1053	2015	Semi-Flex	32-34	14-16	EXC	Adequate	Tall	Med	VG	VG	VG	G	VG	G	G	G	G		Very strong silage yield potential under a wide range of growing conditions. Excellent plant health with strong stalks and superb early vigour. Available in both VT2P and RR2 technology.
PV 62181SRIB	VT2P	81	2350	1055	2015	Semi-Flex	32-34	14-16	EXC	Adequate	Tall	Med	VG	VG	VG	G	VG	G	G	G	G		Very strong yield potential under a wide range of growing conditions. Excellent plant health with strong stalks and superb early vigour. Excellent dual purpose hybrid.
PV 62282RIB	VT2P	82	2400	1000	1930	Fixed	34-36	14-16	VG	Adequate	Med-Tall	Med	VG	EXC	EXC	VG	VG	VG	G	EXC	G		Strong yield potential across wide range of growing conditions. Strong early vigour allows for strong multi use hybrid performance.
PV 62384RIB	VT2P	84	2500	1135	2191	Semi-Flex	32-34	16-18	VG	Adequate	Med-Tall	Med-High	VG	G	VG	VG	G	VG			G		Sharp looking dual purpose hybrid with excellent yield potential. Excellent plant health and staygreen with high tonnage potential. Well suited to populations of 30-32,000 ppa in high yield environments.
PV 62485RIB	VT2P	85	2550	1153	2486	Semi-Flex	30-32	18-20	G	Adequate	Med	Med	VG	VG	VG	VG	VG	VG	G	EXC	VG		Strong yield performance overall. Good ear flex allows for planting at lower densities. Strong agronomics include very good stalks, roots with decent staygreen and harvest appearance.

Rating scale: E=Excellent; VG=Very Good; G=Good; P=Poor
GDU: Growing Degree Units

VT2P=; RR2=

NCLB = Northern corn leaf blight

Tested for performance as a silage product = 



DEKALB® offers a superior lineup of grain and silage corn hybrids that are bred and widely tested under local growing conditions to meet the needs of western Canadian farmers. Based on data generated from annual planting of thousands of Western Canada pre-commercial breeder test plots, DEKALB corn hybrids are selected with a focus on maturity, yield, test weight and a broad range of quality characteristics.

HYBRID	TECHNOLOGY	RELATIVE MATURITY	CHU	FLOWERING TIMING FOR MATURITY	RECOMMENDED PLANT POPULATION	TEST WEIGHT	PLANT HEIGHT	EAR HEIGHT	EMERGENCE	EARLY VIGOUR	STALK STRENGTH	ROOT STRENGTH	GREEN SNAP	STAY GREEN	DRYDOWN	DROUGHT TOLERANCE	GREY LEAF SPOT	NORTHERN LEAF BLIGHT	GOSS'S WILT	SILAGE READY	AGRONOMIC FEATURES
DKC20-23RIB <small>NEW</small>	VT2P	70	2050	Avg	34-36	2	M	M	3	2	3	3	2	3	2	3	5	5	4		Excellent grain quality and late season plant health. Fast drydown and strong test weight. Very good Goss's wilt rating.
DKC21-36RIB	VT2P	71	2075	Late	32-34	2	M	L	2	2	3	2	3	2	2	3	5	2	5		Late flowering timing for maturity but dries down very quickly. Excellent test weight.
DKC24-05	RR2	74	2100	Late	34-36	2	M-T	M	3	3	2	3	2	3	2	3	5	5	4		Late flowering timing for maturity but dries down very quickly. Very good Goss' wilt protection. Excellent test weight.
DKC24-06RIB	VT2P	74	2100	Late	34-36	2	M-T	M	3	3	2	3	2	3	3	3	5	5	4		Excellent stalk strength and test weight. Very good Goss' wilt protection.
DKC26-40RIB	VT2P	76	2150	Late	36-38	1	M-T	M	2	2	2	3	2	2	2	2	5	4	5		Fast drydown helps put this hybrid on the early side of its relative maturity. Silage Ready™ hybrid with excellent test weight. Strong disease package.
DKC29-89RIB	VT2P	79	2275	Late	34-36	4	M-T	M	3	3	2	2	2	2	3	2	6	3	4		Late flowering timing for maturity but dries down very quickly. Excellent root and stalk strength. Excellent drought tolerance.
DKC30-63RIB <small>NEW</small>	VT2P	80	2325	Avg	34-36	3	M	M-T	3	3	3	3	3	4	3	3	4	4	4		Great stalk strength with strong grain test weight and fast drydown. Excellent early season vigour and emergence. Good Goss's wilt tolerance.
DKC31-85RIB	VT2P	81	2425	Avg	36-38	5	M-T	M	3	3	3	3	3	2	3	3	5	4	4		Silage Ready™ hybrid with excellent drought tolerance. Very good rating on Goss's wilt. Very good root and stalk strength.
DKC33-78RIB	VT2P	83	2400	Avg	34-36	2	M	M-L	2	3	2	2	3	4	1	4	5	2	4		Top end yield potential. Performs well across all soil types and yield environments tested. Solid agronomics with excellent stalk strengths, standability and drydown.
DKC33-37RIB	VT2P	83	2500	Avg	34-36	3	M-T	M	3	3	3	3	1	3	3	2	5	5	4		Excellent drought tolerance. Very good rating on Goss's wilt. Very good root and stalk strength.
DKC34-57RIB	VT2P	84	2575	Avg	36-38	3	T	M	2	2	4	3	3	3	4	2	5	5	5		Silage Ready™ hybrid with strong performance and high yield potential across all yield environments tested. Flowering and drydown on target for maturity.
DKC35-29RIB <small>NEW</small>	VT2P	85	2575	Avg	34-36	3	M	M	3	3	3	3	3	3	3	3	6	4	4		Excellent disease package with improved stalk strength and great late season plant health. Excellent staygreen and good Goss's wilt tolerance.
DKC35-37RIB	VT2P	85	2575	Avg	34-36	3	M-T	M	2	2	3	3	2	3	2	3	5	3	5		Excellent emergence and seedling vigour. Excellent drydown. Very good root and stalk strength.
DKC36-48RIB <small>NEW</small>	VT2P	86	2600	Avg	34-36	3	M-T	M	3	2	3	2	3	3	3	2	6	4	5		Silage Ready™ hybrid with excellent top end yield potential. Strong early season vigour and emergence. Excellent drought tolerance.
DKC37-73RIB	SSTX	87	2650	Late	34-36	3	M-T	H	2	1	4	4	3	2	3	3	5	3	5		Excellent emergence and seedling vigour. Excellent staygreen. Very good drydown, test weight and harvest appearance.
DKC38-55RIB	VT2P	88	2650	Early	32-34	3	M-T	M	2	3	4	2	3	3	2	2	4	4	5		Silage Ready™ hybrid that performs well on all soil types tested. Medium-to-tall statured hybrid that flowers early for its relative maturity. Plant at medium to high populations for best results.
DKC38-15RIB	TRE	88	2675	Late	34-36	2	M	M-L	2	2	4	2	2	3	3	3	5	3	6		Excellent emergence, seedling vigour and root strength. Excellent test weight with very good drydown.

Rating scale: 1-2=Excellent; 3-4=Very Good; 5-6=Good to Average; 7-8=Fair to Poor; 9=Poor



NK® corn offers a range of hybrids to meet local agronomic needs. And because NK hybrids are tested extensively before they're made available, you can feel confident in the seed you buy. The NK corn portfolio is built on the Agrisure® trait platform from Syngenta, so you can select the combination of traits and agronomic characteristics you need to help manage production challenges and protect the genetic yield potential of your crop.

VARIETY	TECHNOLOGY	RELATIVE MATURITY	CHU	GDU TO MID POLLINATION	GDU TO PHYS MAT	EAR TYPE	RECOMMENDED PLANT POP	KERNEL ROWS	TEST WEIGHT	HUSK COVER	PLANT HEIGHT	EAR HEIGHT	STAY GREEN	GREEN SNAP	STALK STRENGTH	ROOT STRENGTH	EARLY VIGOUR	DRYDOWN	GREY LEAF SPOT	NORTHERN LEAF BLIGHT	GOSS'S WILT	SILAGE RECOMMENDED	AGRONOMIC FEATURES
NK7837-V	AG-V	78	2350	1150	1890	Semi-Flex	32-34	16-18	EXC	Long/Open	Med	Med-High	EXC	F	EXC	G	VG	VG		G	VG	Y	Broad adaptation across yield environments. Very good emergence and vigour. Heavy test weight with good drought tolerance.
NK8005-V	AG-V	80	2400	1150	1810	Semi-Flex	32-36	18-20	EXC	Adequate	Med-Low	Med	EXC	VG	VG	VG	VG	G		F	VG	Y	Superior yield combined with excellent drought tolerance. Maximizes yield when it rains, increases potential when it doesn't. Early flowering for good northern adaptation.
NK8204-V	AG-V	82	2550	1210	2075	Semi-Flex	32-34	16-18	G	Adequate	Med	Med	G	VG	G	EXC	EXC	EXC		G	VG	Y	Exciting yield performance with quick drydown. Maximum yields on highly productive soils. Very strong roots.
NK8519-DV	AG-D&V	85	2650	1220	2140	Semi-Flex	32-34	16-18	VG	Adequate	Med-High	Med	VG	VG	VG	G	EXC	VG		VG	VG	Y	Consistent performance across environments. Strong stalks for season-long standability. Outstanding drought tolerance for consistent yields.
NK8618-D	AG-D	86	2650	1200	2140	Semi-Flex	32-36	18-20	EXC	Adequate	Med	Med-Low	VG	G	EXC	VG	VG	G		VG	VG	Y	Elite genetics with Agrisure Artesian Technology. Maximizes yield when it rains, increases yield potential when it doesn't. Strong stalks and roots.
NK8760-V	AG-V	87	2650	1210	2140	Semi-Flex	32-34	16-18	VG	Adequate	Med	Med	G	EXC	G	VG	EXC	G		VG	VG	Y	Broadly adapted hybrid with excellent yield potential. Outstanding drought tolerance for placement on variable to lighter soils. Strong emergence allows for early planting in cool soils.
NK9023-DV	AG-D&V	90	2725	1240	2290	Semi-Fixed	32-34	16-18	VG	Adequate	Med-High	Med-High	VG	VG	VG	G	VG	VG		VG	VG	Y	Broad adaptation combined with top-end yield. Excellent emergence with good seedling vigour. Strong stalks for season-long standability.
NK9175-DV	AG-D&V	91	2750	1240	2300	Semi-Fixed	32-34	18-20	VG	Adequate	Med-High	Med-High	G	EXC	G	F	EXC	VG		VG	VG	Y	Top-end yield potential with broad adaptation. Exceptional early disease package. Consistent performance brings exciting yield levels to this maturity range.

Rating scale: E=Excellent; VG=Very Good; G=Good; P=Poor

AG-V= Agrisure Viptera®; AG-D= Agrisure Duracade®

GDU: Growing Degree Units

NCLB = Northern corn leaf blight



With our extensive forage seed offering, we have an option that fits your acre. Set yourself up for success with trusted forages from Proven® Seed.

PRODUCT NAME		
ALFALFA	PV Parlour HG	
	PV Ultima	
	VR Total	
	Halo 2	
	Spredor 5	
LEGUMES	hps Premium Blend	
	hps Birdsfoot Trefoil	
	AC Veldt Cicer Milkvetch	
CLOVER	AAC Mountainview sainfoin	
	Alsike clover	
	Red clover	
GRASSES	Yellow blossom sweet clover	
	Fescue	Barolex Tall Fescue
		Boreal Creeping Red Fescue
		Meadow Fescue
	Orchard	Baridana Orchardgrass
		Blizzard Orchardgrass
		Remmington Perennial
	Ryegrass	hps Annual
		Barpenta Timothy
		Crest Timothy
	Timothy	Grindstad Timothy
		Basho Timothy

PRODUCT NAME		
GRASSES	Brome	AC Knowles Hybrid Brome
		hps Smooth Brome
		hps Meadow Brome
	Wheatgrass	AC Saltlander green wheatgrass
		Kirk crested wheatgrass
		Fairway crested wheatgrass
		Intermediate wheatgrass
		Greenleaf pubescent wheatgrass
		Revenue slender wheatgrass
		hps Tall wheatgrass
		hps Western wheatgrass
		hps Reed canarygrass
		Other
	Dahurian Wildrye	
	MASTER BLENDS	Beefmaster
Dualmaster		
Equimaster		
Floodmaster		
Grazemaster		
Haymaster		
Legumaster		
Ranchmaster		
Salinemaster		
Stockmaster		

Additional products including annuals, native species, pollinator mixes and lawn and landscape blends are also available. For more information see the Proven Seed forage guide at ProvenSeed.ca/forages or ask your local Nutrien Ag Solutions® retail.



Welcome to the cereals section of Nutrien Ag Solutions® Seed Guide. My name is David Cranswick, the Product Manager for cereals and bulk seed.

The next few pages contain one of the most innovative and diverse seed portfolios within Western Canada: world class feed barley, cutting edge spring wheat, and the first Clearfield durum to name a few. No matter your operation, we are sure to have a variety to meet your needs.

The 2023 season continues our tradition of innovation, with the launch of the next generation of CWRS and CWAD varieties from Proven® Seed. Stop by your local Nutrien Ag Solutions retail for more information!









Choose the right wheat for your farm

WHEAT

CULTIVAR	SOIL ZONE SUITABILITY				GRADING POTENTIAL		AGRONOMICS			DISEASE PACKAGE				TRAITS		END USE
	BROWN	DARK BROWN	BLACK	GREY	PROTEIN	TEST WEIGHT	EARLY MATURITY	AWN TYPE	LODGING	LEAF SPOT	STEM RUST	LEAF RUST	FUSARIUM HEAD BLIGHT	INSECT RESISTANCE	HERBICIDE TRAITS	
CWRS																
AAC Broadacres VB ^{NEW}	Best	Best	Best	Best	Best	Best	Best		Best	*	Best	Best	Best	Midge Tolerant Wheat		Milling
SY Brawn VB ^{NEW}	Best	Best	Better	Better	Best	Best	Best		Best	Best	Best	Best	Best	Midge Tolerant Wheat		Milling
AAC Russell VB ^{NEW}	Better	Better	Best	Best	Better	Better	Best		Best	Better	Better	Best	Best	Midge Tolerant Wheat		Milling
CDC Pilar CL PLUS ^{NEW}	Best	Best	Best	Best	Better	Better	Best		Best	Best	Best	Best	Best		Clearfield Plus	Milling
CDC Succession CL PLUS VB ^{NEW}	Best	Best	Best	Best	Better	Better	Best		Best	Better	Best	Best	Best	Midge Tolerant Wheat	Clearfield Plus	Milling
CDC Abound CL	Best	Best	Better	Better	Better	Best	Best		Best	Best	Best	Better	Best		Clearfield	Milling
CDC Ortona	Better	Better	Best	Best	Better	Best	Best	Awnless	Best	Best	Best	Best	Best			Milling
SY Cast	Best	Best	Best	Best	Best	Best	Best		Best	Best	Best	Best	Best			Milling
CDC Hughes VB	Best	Best	Best	Best	Better	Best	Best		Best	Better	Best	Better	Best	Midge Tolerant Wheat		
CPSR																
SY Rorke ^{NEW}	Better	Best	Best	Better	Better	Better	Best		Best	Better	Best	Best	Best			Milling Ethanol
5700PR	Better	Best	Best	Better	Better	Best	Best		Best	Better	Best	Better	Better			Milling Ethanol
CWAD																
CDC Covert ^{NEW}	Best	Better			Best	Better	Best		Best	*	Best	Best	Better			Milling
CDC Flare CL PLUS ^{NEW}	Best	Better			Best	Better	Best		Best	Better	Better	Best	Better		Clearfield Plus	Milling
CDC Dynamic	Best	Better			Best	Best	Best		Best	Better	Better	Best	Better			Milling
AC Navigator	Best	Better			Better	Better	Best		Best	Better	Best	Best	Better			Milling

■ BEST OPTION
 ■ BETTER OPTION
 ■ GOOD OPTION
 NONE


*No data for 2022/23.

VARIETY	YIELD (% CARBERRY)	MATURITY (DAYS +/- CHECK)	LODGING	HEIGHT (CHECK +/-)	TEST WEIGHT (LB/BU)	PROTEIN (%)	AGRONOMIC FEATURES
Carberry (chk)	100	97.7	VG	88 cm	65.3	14.2	–
AAC Broadacres VB^{NEW} 	109	0.0	VG	1	63.8	13.8	The new generation of midge tolerant wheat, our highest yielding line partnered with excellent standability. <i>Disease Package: R-Stem and Leaf Rust, MR-Stripe Rust, I-FHB</i>
SY Brawn VB^{NEW} 	106	-1.0	G	4	64.5	14.1	A new midge tolerant varietal blend, with balanced agronomics and strong disease resistance. <i>Disease Package: MR-Bunt, R-Leaf Rust, MR-Stem Rust, I-Stripe Rust, I-FHB</i>
AAC Russell VB^{NEW} 	105	-2.0	G	9	63.5	14.0	A well rounded variety with a combination of high protein, along with protection from Wheat Midge and MR to fusarium. <i>Disease Package: R-Leaf Stem Rust, MR-Bunt, MR-FHB</i>
CDC Pilar CL PLUS^{NEW} 	97	-1.0	VG	-6	63.3	13.3	The latest generation of Clearfield, this variety combines a strong disease package with incredibly short straw and increased IMI tolerance. <i>Disease package: MR-Bunt and Stem Rust, R-Leaf Rust, I-FHB</i>
CDC Succession VB CL PLUS^{NEW} 	102	0.0	VG	1	63.4	13.7	An industry first, this variety combines Clearfield Plus with resistance to Wheat Midge. <i>Disease Package: MR-Leaf Rust and Stem Rust, MS-FHB</i>
CDC Abound CL	98	-1.0	VG	2	63.5	14.0	A top performing Clearfield wheat with high yields, heavy bushel weights and excellent standability. An ideal variety where complex field conditions and crop rotation challenges exist. <i>Disease package: Resistant to leaf rusts (R); S to FHB</i>
CDC Ortona 	101	-3.0	VG	8	65.3	14.0	Awnless high yielding variety with early/mid maturity and all around great agronomics. <i>Disease package: Best in class resistance to leaf spot (I); R to stem, leaf and stripe rust; I to FHB</i>
SY Cast 	103	0.0	G	-1	63.7	14.2	A high yielding variety with mid maturity and outstanding disease package. <i>Disease package: Best in class resistance to leaf spot (I); R to stem and leaf rust; MR to stripe rust; I to FHB</i>
CDC Hughes VB 	103	-2.0	G	2	64.4	14.0	This high yielding variety combines heavy bushel weight with strong standability and resistance to sprouting, making it a dependable, easy to thresh option and has Wheat Midge resistance in areas where orange blossom Wheat Midge is a threat. <i>Disease package: MR to leaf and stem rust; I to FHB</i>

Source: 2017-2020 Nutrien Ag Solutions® Local Performance Checks – 15 locations, 135 replicates

Lodging: P=Poor, F=Fair, G=Good, VG=Very Good





VARIETY	YIELD (% CARBERRY)	MATURITY (DAYS +/- CHECK)	LODGING	HEIGHT (CHECK +/-)	TEST WEIGHT (LB/BU)	PROTEIN (%)	AGRONOMIC FEATURES
Carberry (chk)	100	97.7	VG	84 cm	65.3	14.3	–
SY Rorke^{NEW} 	111	+1.0	G	-1	63.5	12.3	Our newest CPSR with high yields and improved resistance to fusarium head blight. <i>Disease Package: R-Stem and Leaf Rust, S-Stripe Rust, I-FHB</i>
5700PR	105	0.0	VG	-4	63.6	12.0	High yield potential with excellent resistance to lodging and a superior disease resistance package. The standard for CPSR growers with the best overall balance of features. <i>Disease package: Resistant to common bunt, and leaf rust, MS-FHB, S-Rusts</i>

Source: 2017-2020 Nutrien Ag Solutions® Local Performance Checks – 15 locations, 135 replicates

Maturity: E=Early, M=Mid, L=Late | Lodging: P=Poor, F=Fair, G=Good, VG=Very Good



VARIETY	YIELD (% STRONGFIELD)	MATURITY (DAYS +/- CHECK)	LODGING	HEIGHT (CHECK +/-)	TEST WEIGHT (LB/BU)	PROTEIN (%)	AGRONOMIC FEATURES
Strongfield (chk)	100	0.0	F	96 cm	63.2	14.7	–
CDC Covert^{NEW} 	103	-2.0	G	-1	63.2	14.2	The newest Proven Durum, with very high yields and robust disease resistance. <i>Disease Package: R-Leaf Rust, Stripe Rust, Bunt</i>
CDC Flare CL PLUS^{NEW} 	107	-1.0	G	-1	62.4	14.6	The first and only Clearfield Durum! Chemical tolerance partnered with excellent yield potential and strong legs. <i>Disease Package: R-Leaf Rust, Bunt, MR-Stripe Rust</i>
CDC Dynamic 	98	-1.0	F	1	63.4	15.4	High yield and test weight, strong straw, and excellent protein, while easy to thresh. This variety checks all the boxes for yield, test weight, protein and a solid disease package. <i>Disease package: Resistant to leaf rust (R); MS to FHB</i>
AC Navigator	94	0.0	G	-7	62.2	13.8	A great variety for growers in southwest Saskatchewan and southeast Alberta. Available with a grain production premium contract on limited acres.

Source: 2016-2020 Nutrien Ag Solutions Local Performance Checks – 9 locations, 99 replicates

Lodging: P=Poor, F=Fair, G=Good, VG=Very Good



Choose the right barley for your farm

BARLEY

BARLEY										EARLY MATURITY				TYPE				LODGING				ROOT ROT				NET/SPOT BLOTCH				STEM RUST				FHB			
SOIL ZONE SUITABILITY				GRADING POTENTIAL				AGRONOMICS				DISEASE PACKAGE				END USE																					
BROWN	DARK BROWN	BLACK	GREY	PROTEIN	TEST WEIGHT	EARLY MATURITY	TYPE	LODGING	ROOT ROT	NET/SPOT BLOTCH	STEM RUST	FHB	END USE																								
Altorado	Best	Best	Best	Better	Best	Best	Two Row Rough awned	Best	Best	Best	Best	Best	Feed Grain and Silage																								
Oreana	Best	Best	Best	Better	Best	Best	Two Row Rough awned	Best	Best	Best	Best	Best	Feed Grain																								
Claymore	Best	Best	Best	Better	Best	Best	Two Row Rough awned	Best	Best	Best	Best	Best	Feed Grain and Silage																								

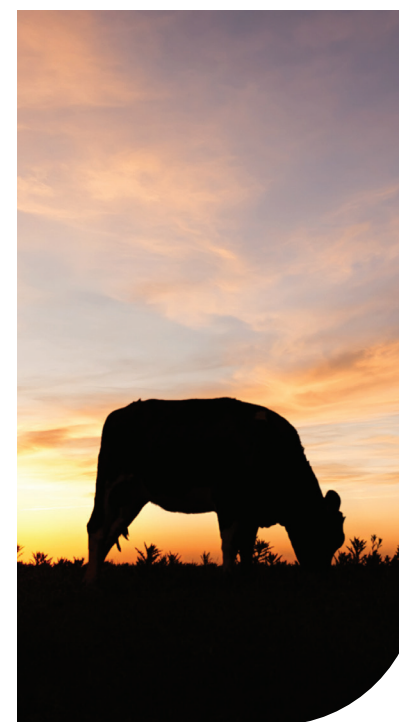
■ BEST OPTION
 ■ BETTER OPTION
 ■ GOOD OPTION
 NONE



VARIETY	YIELD (% AAC SYNERGY)	MATURITY (DAYS +/- CHECK)	LODGING	HEIGHT (CHECK +/-)	TEST WEIGHT (LB/BU)	PLUMP (%)	AGRONOMIC FEATURES
AAC Synergy (chk)	100	0.0	F	84 cm	52.6	93.3	–
Altorado 91	104	0.0	VG	-4	53.3	90.1	New earlier maturing feed barley. Exceptional high quality grain or silage yields. <i>Disease package: Best in class to all leaf diseases; I to FHB</i>
Oreana 91	101	+1.0	VG	-11	53.1	90.5	A short and heavy-statured barley that is well suited for high input operations and manured soils. <i>Disease package: S to FHB</i>
Claymore 91	103	+1.0	VG	+1	52.3	89.8	The highest yielding feed barley in Co-op testing in 2016 and the 2017 to 2019 R&D trials. This feed barley has superior straw strength and high test weights. <i>Disease package: Improvement in all leaf diseases; MR-FHB</i>

Source: 2015–2020 Nutrien Ag Solutions® Local Performance Checks – 13 locations, 201 replicates

Lodging: P=Poor, F=Fair, G=Good, VG=Very Good



Grain, greenfeed or silage

When it comes to producing livestock, a large quantity of high quality feed can mean the difference between profit and loss. Whether you need feed to background calves, finish feeders or over-winter a breeding herd, count on Nutrien Ag Solutions® to provide the right cereal variety to meet your needs – like these top-producing barley options.

Top silage varieties

VARIETY	YIELD (%)	YIELD (T/AC)	TOTAL DIGESTIBLE NUTRIENT (%)	YIELD DRY MATTER (MT/AC)	CRUDE PROTEIN (%)
Check (Austenson)	100	10.4	67	2.6	10.2
Altorado	103	10.7	67	4.0	10.4
Claymore	101	10.5	66	4.1	9.9

Source: 2021 Regional Silage Variety Trial



NutrienAgSolutions.ca

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Roundup Ready® Technology contains genes that confer tolerance to glyphosate. **Roundup Ready® 2 Technology** contains genes that confer tolerance to glyphosate. **LibertyLink® Technology** contains genes that confer tolerance to glufosinate. **Roundup Ready 2 Xtend® soybeans** contains genes that confer tolerance to glyphosate and dicamba. **Glyphosate** will kill crops that are not tolerant to glyphosate. **Dicamba** will kill crops that are not tolerant to dicamba. **Glufosinate** will kill crops that are not tolerant to glufosinate. Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs.

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