



SEED GUIDE

2022 EASTERN CANADA

syngenta.

WE'VE MADE **BIG MOVES** TO KICK **OUR BRAND** INTO GEAR



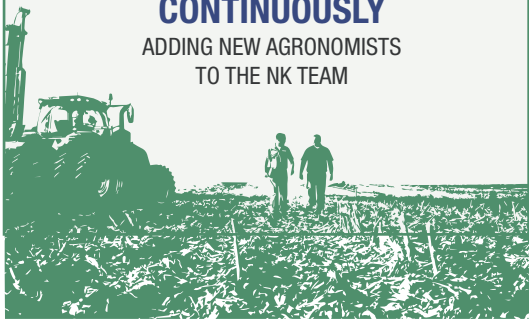
Over the last few years, we've invested in significant advancements to strengthen our portfolio and support the success of growers.

EXPANDED OUR TEAM

50% INCREASE —
NORTH AMERICAN PLANT BREEDERS

38% INCREASE —
PRODUCT PLACEMENT SCIENTISTS

CONTINUOUSLY
ADDING NEW AGRONOMISTS
TO THE NK TEAM



DOUBLED DOWN IN R&D



\$1.4 BILLION INVESTED IN GLOBAL R&D

\$30 MILLION INVESTED
IN TRAIT INTROGRESSION FACILITY

DOUBLED SIZE OF SOYBEAN EXPERIMENTAL CLASS

TRIPLED SIZE OF CORN EXPERIMENTAL CLASS

15% OF PIPELINE CARRIES DIVERSITY
FROM GLOBAL GERMLASM COLLABORATIONS

40% INCREASE IN FIELD DATA POINTS

55K CORN PLOTS AND 51K SOYBEAN PLOTS
TESTED IN 25 LOCATIONS ACROSS CANADA



500,000+ STALKS
MEASURED TO SUPPORT
IMPROVED STANDABILITY

STRENGTHENED CORN PERFORMANCE



45% OF OUR PORTFOLIO IS MADE UP OF 1ST- AND
2ND-YEAR, HIGH-PERFORMING PRODUCTS THAT FEATURE
INDUSTRY-LEADING AGRISURE® TRAITS

- **NK9023** = 2 BU/AC OVER P8989
- **NK9175** = 4 BU/AC OVER P9188
- **NK0243** = 1 BU/AC OVER P0157

Syngenta research and development - aggregate data. ON, QC, MI, WI, NY, 2020
N = 29 (NK9023), N = 11 (NK9175), N = 49 (NK0243)

ADDED MORE CHOICE TO OUR SOYBEAN LINEUP



Learn more at [Syngenta.ca/NK](https://www.syngenta.ca/NK)

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions.

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SOYBEANS




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Agrisure traits

Syngenta is uniquely positioned in the market as the only company that offers a complete portfolio of insect control technologies, providing comprehensive, season-long control of more corn pests.

Heat units	Relative maturity	Above-ground insect protection	Above- and below-ground insect protection	
		 Agrisure Viptera 3220 E-Z Refuge®	 Agrisure Duracade 5122 E-Z Refuge®	 Agrisure Duracade 5222 E-Z Refuge®
≤ 2550	≤ 82	NK7837-3220 NK8005-3220A NK8204-3220		
2600-2700	83 - 87		NK8618-5122A	NK8519-5222
2725-2825	88 - 92		NK8920-5122	NEW! NK9023-5222 NEW! NK9175-5222A NK9227-5222A
2850-2950	93 - 97	NK9535-3220		NEW! NK9653-5222 NK9738-5222
3000-3400	99 - 104		NEW! NK9991-5122 NK0243-5122	NK0472-5222

Premium insect control

With Agrisure® trait stacks, you get built-in control of yield-robbing pests.

Above-ground



Agrisure Viptera® is the only trait currently available that effectively controls western bean cutworm and also protects the crop from key above-ground insects like corn earworm, cutworm and armyworm.

Above- and below-ground



Agrisure Duracade® features a unique mode of action that controls corn rootworm differently than other traits on the market and acts as an excellent foundation for an effective corn rootworm control strategy.



Agrisure Duracade 5222 E-Z Refuge features a unique mode of action that controls corn rootworm differently than other traits on the market and it also has Agrisure Viptera built-in for effective control of western bean cutworm and other key above-ground insects like corn earworm, black cutworm and armyworm.

Drought protection


Many Agrisure trait stacks are also available in hybrids with Agrisure Artesian® technology to maximize yield when it rains and increase yield when it doesn't.





Agrisure Artesian includes scientifically selected genes for water optimization, raising the bar for drought tolerance versus standard hybrids. Growers can count on Agrisure Artesian to maximize yield when it rains and increase yield by up to 15 percent when it doesn't.

Control more insects for increased yield potential

Agrisure Viptera® 3220 controls more above-ground pests than the competition

		Optimum® AcreMax®	Optimum® AcreMax® Leptra™ (AML)	Genuity® VT Double PRO® RIB Complete® (VT2P)	Trecepta® RIB Complete® (TRE)
Corn earworm ¹	****	**	****	***	****
Black cutworm	****	***	****	*	****
Fall armyworm	****	*	****	***	****
Western bean cutworm	****	*	****	*	****
Common stalk borer	***	*	***	*	***
European corn borer ¹	****	****	****	****	****

Agrisure Duracade® trait stacks provide comprehensive above- and below-ground insect control

			Optimum® AcreMax® XTreme (AMXT)	Qrome® (Q)	Genuity® SmartStax® RIB Complete® (SS)
Corn earworm ¹	****	**	**	**	***
Black cutworm	****	***	***	***	***
Fall armyworm	****	*	*	*	***
Western bean cutworm	****	*	*	*	*
Common stalk borer	***	*	*	*	*
European corn borer	****	****	****	****	****
Western and northern corn rootworm ¹	***	***	***	***	***

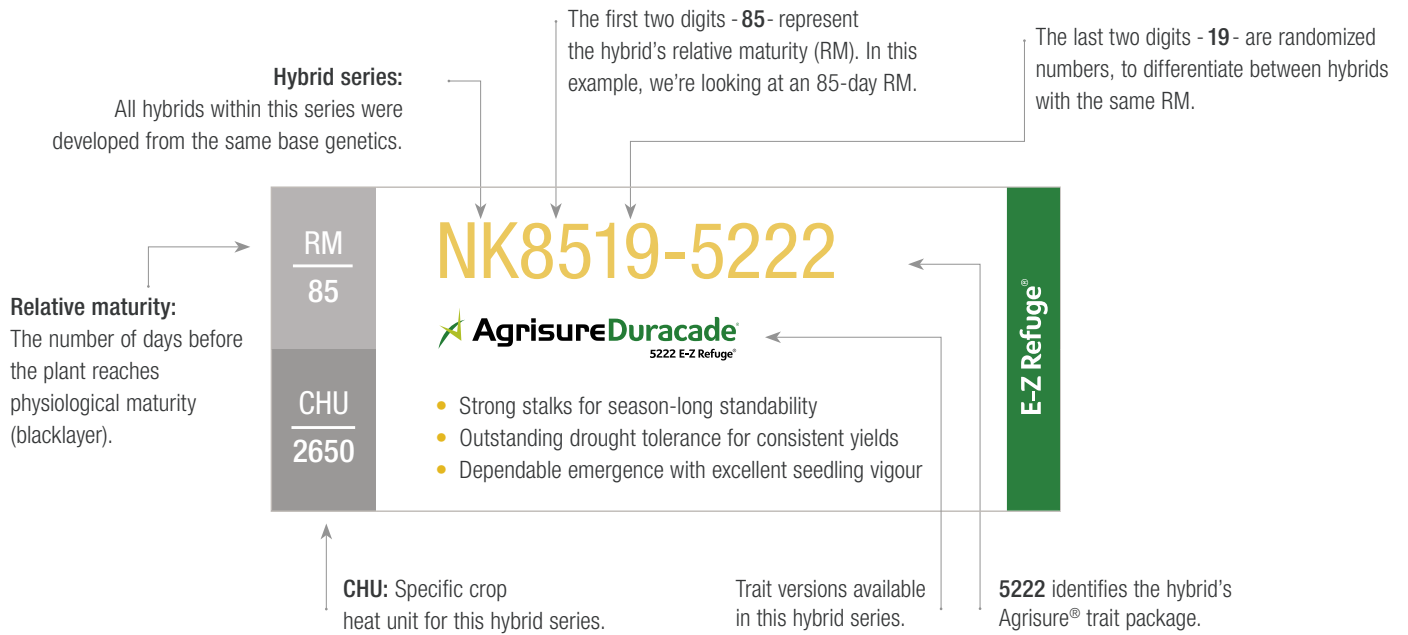
Legend - None, * Some, ** Good, *** Very good, **** Excellent

If you are concerned about trait-resistant insects, please contact your Syngenta Rep to discuss which trait is right for you.

¹ There is no known resistance to Agrisure Duracade or Agrisure Viptera.



Description key



The Agrisure naming system

To convey the characteristics of the various Agrisure trait stacks, we've created a consistent, straightforward naming system.

Master brand: Agrisure

Brand suffix: Changes as new technologies are introduced.

Technology series: The first number in the trait name indicates the technology series.

Insect control traits: The next three numbers indicate how many modes of action are included in the trait stack to control each of the listed insects.

- Broad lepidopteran
- Corn borer
- Corn rootworm

Artesian: An "A" indicates the presence of the Agrisure Artesian technology.

E-Z Refuge: Indicates products that contain 5% hybrid seed without insect control traits, simplifying refuge compliance as specified by the Canadian Food Inspection Agency for managing insect resistance.

Example: A hybrid with the Agrisure Duracade 5222A E-Z Refuge trait stack features two modes of action on broad lepidopterans, two modes of action on corn borer and two modes of action on corn rootworm. The name also tells you that this hybrid has Agrisure Artesian technology and integrated single bag refuge.

Agrisure	Duracade	5	2	2	2	A	E-Z Refuge		
Master brand	Brand suffix	Technology series	Traits					Artesian	Integrated, single-bag refuge
			Broad lepidopteran	Corn borer	Corn rootworm				

Agronomic characteristics

PRODUCT					MATURITY INFORMATION				AGRONOMIC CHARACTERISTICS								SEEDING RATE					ADAPTATION TO SOIL TYPES/ YIELD ENVIRONMENTS				CORN ON CORN RESPONSE	DISEASE TOLERANCE					SILAGE RATINGS												
Brand name	Trait	E-Z-1 Refuge	LibertyLink®	Glyphosate tolerance	Relative maturity (RM)	CHU	RM to silk	RM to blacklayer	Emergence	Seedling vigour	Plant height	Ear height	Staygreen	Drydown	Test weight	Root strength	Stalk strength	-20%	-10%	0	+10%	+20%	Drought prone	Highly productive	Variable soils	Poorly drained	Corn on corn response	Grey leaf spot	Northern corn leaf blight	Anthraxnose stalk rot	Fusarium crown rot	Eyespot	Yield (ton/ac)	CP (% of DM)	Starch (% of DM)	TDN (% of DM)	NEL (Mcal/lb)	Milk (lbs/ton)	Milk (lbs/ac)	Beef (lbs/ton)	Beef (lbs/ac)			
NK7837	3220	✓	✓	✓	78	2350	78	78	3	3	4	3	2	3	2	4	2	●	●	★	★	★	●	★	★	●	★	-	-	-	-	-	●	●	★	★	★	★	★	★	★	★	●	
NK8005	3220A	✓	✓	✓	80	2400	78	77	3	3	5	4	1	4	2	3	3	●	●	★	★	●	★	●	●	●	-	5	-	-	3	●	●	★	●	-	●	●	●	●	●	●	●	●
NK8204	3220	✓	✓	✓	82	2550	84	82	3	2	4	4	4	2	4	2	4	▼	●	★	★	★	▼	●	●	●	-	4	-	4	4	▼	▼	▼	●	▼	●	▼	●	▼	●	▼	▼	▼
NK8519	5222	✓	✓	✓	85	2650	86	85	3	2	3	4	3	3	3	4	3	●	●	★	●	●	★	●	●	★	-	3	-	4	4	★	●	▼	★	-	★	★	★	★	★	★	★	
NK8618	5122A	✓	✓	✓	86	2650	84	85	3	3	3	5	3	4	2	3	2	●	●	★	★	●	★	★	★	●	-	3	2	2	3	★	●	★	▼	●	▼	●	▼	●	▼	●	●	
NK8920	5122	✓	✓	✓	89	2725	89	88	2	2	3	4	2	3	3	3	3	●	●	★	●	●	▼	★	●	★	-	4	3	3	3	★	●	▼	●	-	●	●	●	●	●	●	●	
NK9023 NEW	5222	✓	✓	✓	90	2725	91	90	2	3	2	2	3	3	3	4	3	●	●	★	●	●	★	●	●	●	-	3	3	3	-	▼	●	●	●	●	▼	▼	●	▼	●	▼	▼	▼
NK9175 NEW	5222A	✓	✓	✓	91	2750	91	91	3	3	3	4	4	3	3	5	4	●	●	★	●	●	★	●	●	▼	-	3	4	5	3	★	●	●	●	-	★	★	★	★	★	★	★	★
NK9227	5222A	✓	✓	✓	92	2750	92	92	2	3	2	2	3	3	2	4	2	●	★	★	★	●	★	★	●	★	-	3	3	3	-	★	★	●	●	●	●	●	★	●	★	★	★	
NK9535	3220	✓	✓	✓	95	2850	95	95	3	3	3	4	2	3	2	3	2	●	★	★	●	●	★	★	★	●	4	5	3	3	2	★	▼	★	●	●	★	★	★	★	★	★	★	
NK9653 NEW	5222	✓	✓	✓	96	2875	96	95	2	2	2	2	3	3	2	3	2	●	●	★	●	●	★	●	●	●	3	2	3	2	3	★	●	▼	●	●	●	★	●	★	●	★	★	
NK9738	5222	✓	✓	✓	97	2900	95	97	2	2	3	2	3	3	3	4	2	●	●	★	★	●	★	●	●	●	4	4	-	-	-	★	★	●	●	●	★	★	★	★	★	★	★	
NK9991 NEW	5122	✓	✓	✓	99	3000	98	100	3	2	3	3	2	3	3	2	3	●	●	★	●	●	★	●	●	●	2	2	3	4	3	▼	●	●	●	●	●	▼	●	▼	●	▼	▼	▼
NK0243	5122	✓	✓	✓	102	3075	101	102	3	3	5	5	1	3	5	3	2	▼	●	★	★	●	★	★	★	●	3	4	-	2	3	★	●	★	★	★	★	★	★	★	★	★	★	
NK0472	5222	✓	✓	✓	104	3100	103	100	2	2	4	4	3	4	2	2	2	▼	●	★	★	●	★	★	★	●	4	5	-	2	3	▼	★	✘	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼

Corn chart key

Traits

3220 = Agrisure Viptera 3220
 5122 = Agrisure Duracade 5122
 5222 = Agrisure Duracade 5222 with Agrisure Viptera 3220
 A = Artesian

Agronomic and disease tolerance ratings and population considerations

1 = Best
 9 = Worst
 - = Under evaluation

Continuous corn, seeding and adaption ratings

★ Above average performance
 ● Average performance
 ▼ Hybrid may not perform consistently
 ✘ Hybrid not recommended
 - Data not available

Silage ratings

★ Greatest opportunity to maximize performance relative to other hybrids in maturity group
 ● Performs well relative to other hybrids in maturity group
 ▼ Performance is lower relative to other hybrids in maturity group
 ✘ Performance is below desired levels relative to other hybrids in maturity group
 - Data not available

This table provides silage quality and yield scores for selected NK hybrids based on actual tonnage and silage analysis values, and represents relative differences among hybrids of a similar maturity.



Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, post-emergent weed control of Liberty® herbicide for optimum yield and excellent weed control.

Consult bag tags for E-Z Refuge product herbicide options. Only those labeled E-Z-1 may be sprayed with glufosinate ammonium based herbicides, including Liberty® herbicide.

NOTE: Hybrid characteristics such as staygreen and drought stress tolerance are also important to consider when selecting hybrids for silage. Digestibility ratings are based on NIR and in-vitro digestibility analysis. Milk performance estimates generated from University of Wisconsin equations. Comparisons should only be made among hybrids within a maturity group. Although actual silage yield and quality analysis of a hybrid will vary with environment, the relative ranking of a hybrid will be similar. These ratings are a relative performance guide. Conduct a laboratory test to determine actual silage quality when balancing a feed ration.

All hybrid chassis and/or chassis combinations are subject to change.

CORN

2022 HYBRIDS
CHU 2350–2750

 **Miravis[®] Neo**

 **syngenta.**

We've captured it!
Innovative corn disease control


Turns out, you *can* catch lightning in a bottle. Miravis[®] Neo fungicide lets you manage for yield AND quality in your corn without compromise. Miravis[®] Neo delivers best-in-class protection against the broadest range of quality and yield-robbing diseases—including Fusarium—for a higher-yielding, healthier crop, and a difference you can clearly see.

For more information, visit
Syngenta.ca/Miravis-Neo-Corn




Turn page to see the
corn chart key

RM 78	NK7837-3220	E-Z Refuge [®]
CHU 2350	<p> Agrisure Viptera <small>3220 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Very good emergence and vigour • Heavy test weight with good grain quality • Great drought tolerance for consistent yields 	

RM 86	NK8618-5122A	E-Z Refuge [®]
CHU 2650	<p> Agrisure Duracade <small>5122 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Maximizes yield when it rains; increases yield when it doesn't • Strong stalks and roots • Heavy test weight 	

RM 80	NK8005-3220A	E-Z Refuge [®]
CHU 2400	<p> Agrisure Viptera  Miravis[®] Neo <small>3220 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Maximizes yield when it rains; increases yield when it doesn't • Early flowering for good northern adaptation • Heavy test weight ✕ May benefit from an application of Miravis[®] Neo around tasseling 	

RM 89	NK8920-5122	E-Z Refuge [®]
CHU 2725	<p> Agrisure Duracade <small>5122 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Excellent emergence and seedling vigour for a fast start • Moderate stature with strong roots and stalks • Superb staygreen and late-season plant health 	

RM 82	NK8204-3220	E-Z Refuge [®]
CHU 2550	<p> Agrisure Viptera <small>3220 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Maximum yields on highly productive soils • Very strong roots • Strong emergence with great early vigour 	

NEW	RM 90	NK9023-5222	E-Z Refuge [®]
	CHU 2725	<p> Agrisure Duracade <small>5222 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Excellent emergence with good seedling vigour • Strong stalks for season-long standability • Outstanding stress tolerance for consistent yield 	

RM 85	NK8519-5222	E-Z Refuge [®]
CHU 2650	<p> Agrisure Duracade <small>5222 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Strong stalks for season-long standability • Outstanding drought tolerance for consistent yields • Dependable emergence with excellent seedling vigour 	

NEW	RM 91	NK9175-5222A	E-Z Refuge [®]
	CHU 2750	<p> Agrisure Duracade <small>5222 E-Z Refuge[®]</small></p> <ul style="list-style-type: none"> • Very good early disease package • Consistent performance brings exciting yield levels to this maturity range • Outstanding drought tolerance featuring Agrisure Artesian technology 	

RM 92	<h1>NK9227-5222A</h1>	E-Z Refuge®
CHU 2750	<p>AgrisureDuracade <small>5222 E-Z Refuge®</small></p> <ul style="list-style-type: none"> • Maximizes yield when it rains; increases yield when it doesn't • Superb stalk strength for ease of harvest • Very good staygreen and drydown 	

NEW	RM 99	<h1>NK9991-5122</h1>	E-Z Refuge®
	CHU 3000	<p>AgrisureDuracade <small>5122 E-Z Refuge®</small></p> <ul style="list-style-type: none"> • Improved plant health with better roots and stalks • Excellent choice for medium- to high-yield environments • Broadly adapted hybrid with very good test weight 	

RM 95	<h1>NK9535-3220</h1>	E-Z Refuge®
CHU 2850	<p>AgrisureViptera <small>3220 E-Z Refuge®</small> Miravis® Neo</p> <ul style="list-style-type: none"> • Broad adaptation across yield environments • Superb stalks for season-long standability • Flex ear type allows for planting rate flexibility ✕ May benefit from an application of Miravis® Neo around tasseling 	

RM 102	<h1>NK0243-5122</h1>	E-Z Refuge®
CHU 3075	<p>AgrisureDuracade <small>5122 E-Z Refuge®</small></p> <ul style="list-style-type: none"> • Performs extremely well south of zone • Very strong stalks, roots and staygreen for season-long standability 	

NEW	RM 96	<h1>NK9653-5222</h1>	E-Z Refuge®
	CHU 2875	<p>AgrisureDuracade <small>5222 E-Z Refuge®</small></p> <ul style="list-style-type: none"> • Excellent plant health with strong roots and stalks • Consistent performance on poorly drained and variable soils • Broadly adapted hybrid with excellent test weight 	

RM 104	<h1>NK0472-5222</h1>	E-Z Refuge®
CHU 3100	<p>AgrisureDuracade <small>5222 E-Z Refuge®</small> Miravis® Neo</p> <ul style="list-style-type: none"> • Excellent stalks and roots • Solid emergence and early vigour for fast stand establishment ✕ May benefit from an application of Miravis® Neo around tasseling 	

RM 97	<h1>NK9738-5222</h1>	E-Z Refuge®
CHU 2900	<p>AgrisureDuracade <small>5222 E-Z Refuge®</small></p> <ul style="list-style-type: none"> • Dependable emergence with strong early vigour • Responds well to high populations • Superb stalks for season-long standability 	

Silage choice

High-quality hybrids make high-quality silage.

Explore your options and find the right fit for your farm.

PRODUCT		MATURITY INFORMATION				AGRONOMIC CHARACTERISTICS											
Brand name	Trait	Relative maturity (RM)	CHU	RM to silk	RM to blacklayer	Yield (tons/acre)	Protein	NDF	NDFD	Starch	Fat	TDN	NEL	Milk/ton	Milk/acre	Beef/ton	Beef/acre
NK7837	3220	78	2350	78	78	●	●	★	★	★	-	★	★	★	★	★	●
NK8005	3220A	80	2400	78	77	●	●	●	●	★	-	●	-	●	●	●	●
NK8519	5222	85	2650	86	85	★	●	▼	●	▼	-	★	-	★	★	★	★
NK8618	5122A	86	2650	84	85	★	●	●	●	★	★	▼	●	▼	●	▼	●
NK9175 <i>NEW</i>	5222A	91	2750	91	91	★	●	●	●	●	-	●	-	★	★	★	★
NK9227	5222A	92	2750	92	92	★	★	▼	●	●	★	●	●	●	★	●	★
NK9535	3220	95	2850	95	95	★	▼	●	●	★	★	●	●	★	★	★	★
NK9653 <i>NEW</i>	5222	96	2875	96	95	★	●	●	●	▼	●	●	●	●	★	●	★
NK9738	5222	97	2900	95	97	★	★	●	▼	●	★	●	●	★	★	★	★
NK0243	5122	102	3075	101	102	★	●	●	●	★	★	★	★	★	★	★	★



Silage chart key

Traits

3220 = Agrisure Viptera 3220
 5122 = Agrisure Duracade 5122
 5222 = Agrisure Duracade 5222
 with Agrisure Viptera 3220
 A = Artesian

Ratings

- ★ Greatest opportunity to maximize performance relative to other hybrids in maturity group
- Performs well relative to other hybrids in maturity group
- ▼ Performance is lower relative to other hybrids in maturity group
- ✘ Performance is below desired levels relative to other hybrids in maturity group
- Data not available

Yield Calculated on a per-acre basis and adjusted to standard moisture.

Neutral detergent fiber (NDF) Measure of the indigestible and slowly digestible components of the silage.

Neutral detergent fiber digestibility 48 hour (NDFD 48 hr) Estimates the ruminant digestibility of the NDF fraction.

Starch Indicates the percent of feed component that is starch.

Fat Indicates the percent of feed component that is fat.

Total digestible nutrients (TDN) Sum of the digestibility of different nutrients.

Net energy lactation (NEL) Feed effect on net energy for lactating cows based on acid detergent fiber (ADF).

Milk/ton* An estimate of forage quality driven by starch content, starch digestibility and NDF.

Milk/acre* Combines the estimate of forage quality (Milk/ton) and yield (Tons/acre) into a single term.**

Beef/ton* A proprietary estimate of forage quality driven by TDN.

Beef/acre* Combines the estimate of forage quality (Beef/ton) and yield (Tons/acre) into a single term.








This table provides silage quality and yield scores for selected NK hybrids based on actual tonnage and silage analysis values, and represents relative differences among hybrids of a similar maturity.

*These ratings should not be used to estimate actual production per animal, but instead they should be used to determine relative overall silage quality and yield of each hybrid.
 **Milk/A: Combining yield and quality into a single term, <https://fyi.uwex.edu/forage/files/2016/11/Milk-2016-Combining-Yield-and-Quality-into-a-Single-Term-2.pdf>

Protect your investment

Even the highest performing hybrids with industry-leading traits require an additional layer of protection to keep early-season threats at bay. For NK seed, we tap into the complete Seedcare™ portfolio from Syngenta, so you can manage the most challenging diseases and insects in your fields.

For 2022, we're offering a choice of two Seedcare packages on treated corn seed.

	INSECTS CONTROLLED					DISEASES CONTROLLED CAUSED BY				
	Cutworm	European chafer	Wireworm	Seed corn maggot	Root knot nematode	Fusarium	Pythium	Rhizoctonia	Aspergillus	Penicillium
PACKAGE 1										
						●	●	●	●	●
NEW! 							●			
NEW! 					■			■ ²		
PACKAGE 2										
	●	●	●	◆						
						●	●	●	●	●
NEW! 							●			
NEW! 					■			■ ²		

Legend

- Control
- ◆ Suppression
- Partial suppression

¹ At the time of print, Vayantis® was being assessed for registration under the Pest Control Products Act, and cannot be manufactured, imported, distributed, or used in Canada until registration has been obtained from Health Canada. This communication does not constitute an offer for sale. At time of print, registration of Vayantis seed treatment was anticipated July 26, 2021.

² Partial suppression of seed rot and seedling blight caused by *Rhizoctonia solani*.



Maxim® Quattro with Vibrance® fungicide seed treatment delivers five modes of action for comprehensive, consistent protection against seed- and soil-borne diseases, including Fusarium, Pythium and Rhizoctonia. Growers also benefit from improved plant health and quality.

NEW!



New Vayantis® fungicide represents a true step up in corn seed treatments, with a new, effective mode of action and the most comprehensive Pythium protection available, so growers can be sure their crop is protected.

NEW!



New Draco™ corn seed treatment provides a biological bacteria package featuring *Bacillus licheniformis* and *Bacillus subtilis* for an additional mode of action against target pests. In corn, it provides partial suppression of seed rot and seedling blight caused by *Rhizoctonia solani* and root knot nematode, and may help improve germination, water use efficiency, greening, vigour and survival set in crops.



Fortenza® is a Group 28 insecticide corn seed treatment that controls cutworm, European chafer and wireworm, and suppresses seed corn maggot. Fortenza helps build a strong corn stand, even under heavy insect pressure, producing faster, more uniform growth.




Give corn the broadest
spectrum of Pythium control.

Photo taken in Pain Court, ON.

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Corn rootworm management recommendations

Monitoring corn fields for corn rootworm (CRW) beetles can help determine CRW pressure in the subsequent year. Gauge next year's CRW larval threat based on this year's beetle numbers. If scouting reveals 1-1 1/2 beetles per plant, CRW larval feeding activity may be high the following year.

I HAVE LOW CORN ROOTWORM PRESSURE

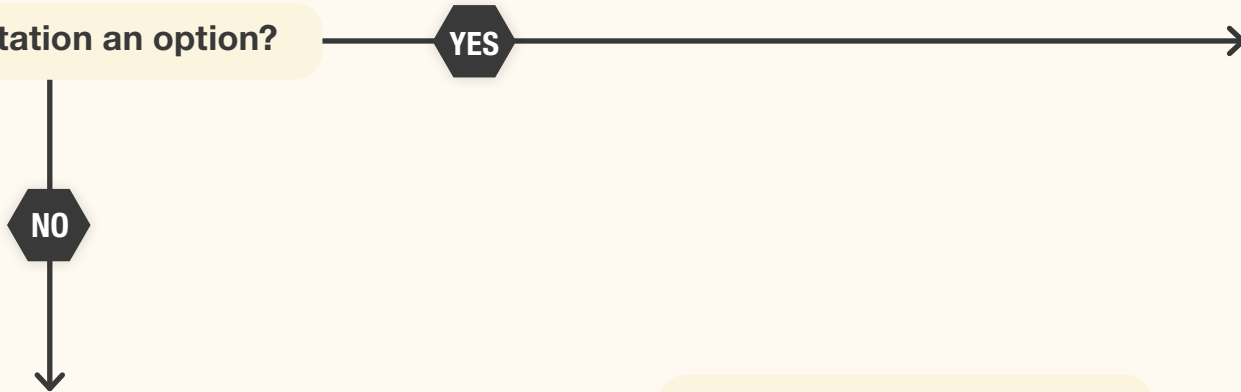


If you experienced low larval feeding damage, low adult beetle population, and no rootworm-caused corn lodging issues in the prior year and:

- Will plant continuous corn: consider a single CRW trait, multiple CRW traits, or a non-CRW traited hybrid with Force® 3G soil insecticide.
- Will plant first year corn in areas with western CRW or northern CRW variant: consider a single CRW trait, multiple CRW traits, or a non-CRW traited hybrid with Force 3G.
- Will plant first year corn in areas without western CRW or northern CRW variant: consider a non-CRW traited hybrid with or without Force 3G.

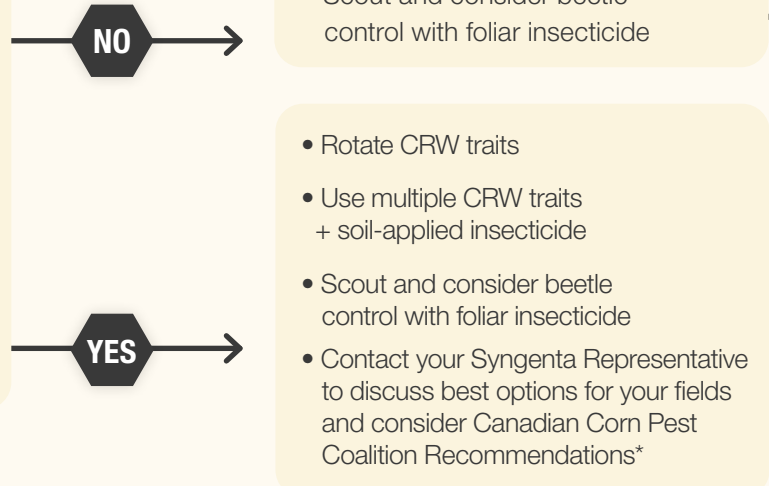
I HAVE HIGH CORN ROOTWORM PRESSURE

Is crop rotation an option?



Does your field have a long-term history of corn on corn use with CRW traits OR have you experienced any of the following with CRW traits:

- Unexpected damage observed
- Excessive root feeding
- Lodged corn not explained by environmental factors



*For more information on Canadian Corn Pest Coalition Recommendations, please visit: <https://fieldcropnews.com/2020/10/mitigation-measures-for-bt-resistant-corn-rootworm/>

CROP ROTATION

- Rotate to a non-host crop such as soybeans, which provides the best opportunity to break the reproductive cycle of CRW.
- If you are concerned with the potential for the western CRW variant that may lay eggs in soybean fields, make sure to monitor soybeans for beetles to take action in next year's corn crop based upon beetle observations in previous year's soybeans. Alternatively, consider treating adult beetles in the soybean crop itself. When planting corn following soybeans in areas with western CRW variant consider a single CRW trait, multiple CRW traits, and/or Force 3G.
- If you are concerned with the potential for the northern CRW variant, rotate to multiple years of non-host crop or monitor/take action to treat CRW as needed. When planting corn in a corn-soybean rotation in areas with northern CRW variant consider a single CRW trait, multiple CRW traits, and/or Force 3G.

MODE OF ACTION ROTATION

Previous CRW trait usage and years in corn are important factors. It is always important to consult with your Sales Representative to discuss which of the below options will work best in your particular situation.



- Agrisure Duracade 5122 and Agrisure Duracade 5222 trait stacks combine a unique mode of action for CRW control with a second, proven mode of action against CRW. Both trait stacks also provide a five percent integrated E-Z Refuge®.





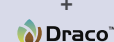










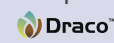





- Force 3G, when used in combination with hybrids that contain single or multiple CRW trait combinations, drives yield.
- Secondary insects or other agronomic reasons may influence the decision to use soil insecticide.

UNTRAITED CORN

- In cases where you are not satisfied with the traited control of CRW, consider rotating trait packages and growing corn with no CRW trait in your field.
- In this scenario, use of insecticides will be required for effective CRW control.



SEED	PE	VE	V1	V3	V5	V6	R1	MATURITY
------	----	----	----	----	----	----	----	----------

 OPTION 1  +  + 	1 P A S S	Foundation Acre®  Acuron  Acuron Flexi	 Voliam Xpress ®
		Foundation Acre®  Primextra II Magnum  Callisto GT ¹	 Halex GT ¹ //  AAtrex Liquid480
OPTION 2  +  +  + 	2 P A S S	Foundation Acre®  Primextra II Magnum	 Voliam Xpress ®
		 Callisto	 Callisto GT ¹

¹ Callisto GT and Halex GT are for glyphosate-tolerant corn only. *This product is unregistered at the time of print and this does not constitute an offer for sale. At time of print, registration of Vayantis® seed treatment was anticipated July 26, 2021.



Soybean index



Enlist E3™ soybeans

NK® soybeans with Enlist E3™ trait technology are tolerant to 2,4-D choline (Group 4), glyphosate (Group 9) and glufosinate (Group 10), enabling growers to meet ever-increasing weed challenges, including glyphosate resistance, and helping to maximize profit per acre.



Roundup Ready 2 Xtend® soybeans

NK soybean varieties bred with Roundup Ready 2 Xtend® trait technology are tolerant to both glyphosate (Group 9) and dicamba (Group 4) herbicides, allowing growers to use multiple modes of action to help manage tough-to-control weeds, including glyphosate-resistant giant ragweed, common ragweed, and Canada fleabane.



Roundup Ready 2 Yield® soybeans

NK soybean varieties bred with Roundup Ready 2 Yield® trait technology are tolerant to glyphosate (Group 9) herbicides.



Soybean cyst nematode solutions

NK offers two sources of resistance to soybean cyst nematode: PI88788 and Peking. The source of resistance is indicated in the agronomic table.



Conventional soybeans

Conventional, identity-preserved soybean varieties from NK have a reputation for quality, are trusted by processors, and give growers a competitive edge in Canadian and international markets.



New for 2022!

We've changed our naming convention for 2022. Here's an example:

NK®07-A7E3

NK®	07	A7	E3
<p>All traited NK soybean varieties launching for the 2022 growing season will feature the "NK" text associated with the variety name. This standardized approach will apply to all future traited soybean varieties introduced to the NK portfolio.</p>	<p>Indicates maturity group and relative maturity within the group, on a scale from 0-9 (0 = early; 9 = late).</p>	<p>Randomly designated letter and number.</p>	<p>Indicates herbicides technology E3 = Enlist E3™ X = Roundup Ready 2 Xtend® Randomly designated letter and number = Roundup Ready 2 Yield®.</p>


This naming convention will not be retroactively applied to existing varieties in the NK soybean portfolio. Conventional soybean varieties will continue to be indicated with an "S".

Description key

Ratings are based on field observations collected by Syngenta from multiple locations over multiple years. They represent comparisons with NK products only.

Relative maturity: 0.1:

A relative maturity (RM) system is used to rank soybeans. Each variety is classified with a 0 to 9 decimal number following the group (or zone) number. For example, a variety with a 2.1 RM can be grown in the northern part of the "II" relative maturity zone, while a 2.9 is a variety that can be grown in the southern part of that maturity zone.

RM 0.1	<h1>S01-C4X</h1>  <ul style="list-style-type: none"> • Excellent performance across most soil types • Good plant height, even when moved south of zone • Rps1c with excellent field tolerance to Phytophthora root rot
CHU 2525	

CHU: 2525: Specific crop heat units for this product.



Agronomic characteristics

PRODUCT	TRAIT	MATURITY		AGRONOMIC/PLANT CHARACTERISTICS							GRAIN QUALITY		DISEASES/PESTS						GENERAL ADAPTATION				
		Relative maturity	CHU	Emergence	Standability	Wide row	Plant height	Canopy index	Hilum colour	Seed size	Protein rating	Oil rating	SCN resistance source	Soybean cyst nematode	PHYTOPHTHORA		White mould	Sudden death syndrome	Pod and stem blight	Drought prone soils	Highly productive soils	Variable environments	Poorly drained soils
S0009-M2		0.009	2275	3	4	4	M	3.3	IMY	M	Average	Very high	S	S	Rps6	3	3	-	3	●	★	●	●
S007-Y4		0.05	2350	3	2	2	M	4.62	IMY	M	High	High	S	S	Rps1c	3	2	-	6	●	★	★	●
S007-Z1X		0.07	2400	3	4	1	MT	6.27	BR	L	Average	High	S	S	Rps1c	5	5	-	4	★	●	★	●
S008-N2		0.08	2450	3	3	1	MT	6.27	IMY	L	Average	High	S	S	S	4	4	-	5	●	●	★	●
S01-C4X		0.1	2525	3	3	2	MT	5.61	BL	M	Average	Average	S	S	Rps1c	2	3	2	5	●	★	●	●
S04-D3		0.4	2600	3	2	4	M	4.29	BL	M	High	Average	S	S	Rps1c	3	2	-	2	●	★	●	●
S04-J6X		0.4	2625	3	2	1	M	4.95	BL	M	High	Average	PI88788	MR3	Rps1c	3	4	-	4	★	★	★	★
NK®07-A7E3 NEW		0.7	2700	2	3	1	M	-	BF	-	-	-	PI88788	R3,MR14	Rps3a	3	4	-	-	-	-	-	-
S07-K5X		0.7	2700	1	3	2	M	4.62	GR	L	Very high	Average	S	S	Rps3a	3	3	-	4	●	●	★	●
S09-R8X		0.9	2775	3	4	2	MT	5.61	IMY	M	High	Average	PI88788	R3,MR14	Rps1c	4	4	3	5	★	★	★	●
S12-M5X		1.2	2825	2	2	1	MS	5.94	BL	VL	Average	High	PI88788	MR3	Rps1k,Rps3a	2	3	2	2	★	★	★	★
NK®14-W6E3 NEW		1.4	2850	3	3	2	MS	4.62	BF	L	High	Average	Peking	MR1, R3, MR5	Rps1c,Rps3a	3	4	4	5	●	★	★	★
S14-U9X		1.4	2850	3	2	2	MT	5.28	BR	M	High	Average	PI88788	MR3,MR14	Rps1c	2	3	3	2	●	★	●	●
S16-K2X		1.6	2875	2	3	1	M	4.95	BL	L	High	Average	PI88788	MR3	Rps1k,Rps3a	2	4	5	5	★	●	★	★
S18-G4X		1.8	2925	3	2	1	MT	6.27	BL	L	High	High	PI88788	R3,MR14	Rps1c	3	6	2	2	●	●	★	★
NK®19-Y5E3 NEW		1.9	2950	2	3	1	MT	-	BL	-	-	-	PI88788	R3,MR14	Rps1k	3	4	2	-	-	-	-	-
S20-E3		2.0	3000	3	2	1	M	5.28	BF	L	High	Average	PI88788	MR3	Rps1c,Rps3a	2	4	2	-	●	●	★	●
S20-L8X		2.0	3025	2	3	2	M	4.95	BL	L	High	High	PI88788	R3,MR14	Rps1c	4	2	3	3	●	▼	●	▼
S22-J4X		2.2	3075	3	3	2	M	4.95	BL	L	High	High	PI88788	R3,MR14	Rps1c	4	3	3	3	▼	●	▼	★
S25-B6X		2.5	3150	3	3	1	MT	7.26	BR	L	Average	Average	PI88788	R3,MR14	Rps1c	4	3	4	4	●	●	★	★
S26-E3		2.6	3175	2	2	2	M	4.62	BF	S	Average	High	Peking	CMP/P	Rps1k	4	4	3	-	▼	★	●	●
S29-R5X		2.9	3275	2	4	1	MT	6.6	BR	M	Average	High	Peking	R1,R3,MR5	Rps1k	2	4	3	2	●	★	★	★
S31-Y2X		3.1	3300	3	3	2	M	4.95	BL	L	High	Average	PI88788	R3,MR14	Rps1c	4	3	3	2	●	●	●	★

Soybean chart key

Relative maturity
First number indicates maturity group, second set of numbers indicates within-group maturity rating on a 0–9 scale (0 = Early, 9 = Late).

Agronomic and disease ratings

1 = Best
9 = Worst
- = Under evaluation

Plant height

S = Short
MS = Medium Short
M = Medium
MT = Medium Tall
T = Tall

Canopy index

Index is calculated using plant height, width and branching characteristics. The larger the number, the larger the plant.

Colour abbreviations

BF = Buff, BR = Brown, BL = Black, GR = Grey
IMB = Imperfect Black, Y = Yellow, IMY = Imperfect Yellow

Seed size

VL = Very Large = <2000 seeds/lb or <4400 seeds/kg
L = Large = 2000–2275 seeds/lb or 4400–5000 seeds/kg
M = Medium = 2275–2725 seeds/lb or 5000–6000 seeds/kg
S = Small = >2725 seeds/lb or >6000 seeds/kg

Protein rating

Average = <40%
High = 40–43%
Very high = 43–45%
Ultra high = >45%

Oil rating

Average = <22%
High = 22–23%
Very high = 23–24%
Ultra high = >24%

Protein values fluctuate from year to year and field to field. Protein and oil values are based on 0% moisture.

Resistance rating system

Indicates when a variety is resistant to a specific disease or pest. For varieties with soybean cyst nematode (SCN) resistance, it is specified which races of nematodes the line is resistant to. In the case of Phytophthora, it indicates the gene conveying the resistance.

Soybean cyst nematode (SCN) resistance source

S = Susceptible, Peking or PI88788,
CMP/P = Confirmation of Peking by marker.

Soybean cyst nematode (SCN)

1, 3, 5 and/or 14 = Specific race of soybean cyst nematode
R = Resistant, MR = Moderately Resistant, S = Susceptible

Phytophthora race resistance

The following information correlates gene resistance to the actual races of Phytophthora the plant is protected from:

S = Susceptible

Rps1a = Resistant to races 1, 2, 10, 11, 13–18, 24, 26, 27, 31, 32, 36, 38

Rps1c = Resistant to races 1–3, 6–11, 13, 15, 17, 21, 23, 24, 26, 28–30, 32, 34, 36, 38, 44

Rps1k = Resistant to races 1–11, 13–15, 17, 18, 21–24, 26, 36–38, 44

Rps3a = Resistant to races 1–5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29, 31–35, 39, 44, 45

Rps6 = Resistant to races 1–4, 8, 9, 10, 12, 14–16, 18–21, 25, 28, 33–35, 38, 39, 44, 45

Phytophthora field tolerance

Usually not as complete as race-specific resistance, but it offers general protection. Numerical rating scale of 1–9;
1 = Excellent, 9 = Poor

Adaptation ratings

★ Above average performance
● Average performance
▼ Variety may not perform consistently
✘ Variety not recommended



SOYBEANS



2022 VARIETIES

2022 VARIETIES



SOYBEANS

CONVENTIONAL

You have choice.

NK® draws on proprietary genetics to breed unique, high-yielding soybean varieties with strong disease tolerance. We offer a number of soybean varieties so each grower can select the varieties they need to succeed.

Discover the NK difference at Syngenta.ca/NK-soybeans



PRODUCT	MATURITY		AGRONOMIC/PLANT CHARACTERISTICS							GRAIN QUALITY		DISEASES/PESTS							GENERAL ADAPTATION			
	Relative maturity	CHU	Emergence	Standability	Wide row	Plant height	Canopy index	Hilum colour	Seed size	Protein rating	Oil rating	SCN resistance source	Soybean cyst nematode	PHYTOPHTHORA		White mould	Sudden death syndrome	Pod and stem blight	Drought prone soils	Highly productive soils	Variable environments	Poorly drained soils
S03-P4 NEW	0.3	2600	3	4	3	MT	4.95	IMY	L	Ultra high	Average	PI88788	MR3	Rps1c,Rps3a	3	-	3	3	●	★	●	★
S03-W4	0.3	2600	3	2	3	M	2.64	IMY	L	Very high	Average	S	S	Rps1c	2	3	4	2	●	★	●	★
S04-K9	0.4	2625	2	3	2	M	4.95	Y	VL	Ultra high	Average	PI88788	R3,R14	Rps1c	2	-	3	5	●	●	●	●
S07-M8	0.7	2725	3	1	3	M	2.97	IMY	VL	Very high	Average	S	S	Rps1c	3	2	5	2	●	★	●	●
S10-R2	1.0	2800	3	5	1	MT	6.6	Y	L	Ultra high	Average	PI88788	R3	S	3	5	5	8	●	▼	●	★
S12-J7	1.2	2825	3	3	2	M	4.29	Y	VL	Very high	Average	PI88788	MR3,R14	Rps1c,Rps3a	2	4	2	4	●	★	★	★
S20-M1	2.0	3000	2	4	2	T	5.28	Y	L	Very high	Average	PI88788	R3,R14	Rps1c	3	4	4	6	★	★	★	●
S21-C6	2.1	3050	3	3	1	T	7.26	Y	VL	Ultra high	Average	PI88788	MR3	S	4	4	5	4	●	●	●	●

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- Rps1c = Resistant to races 1–3, 6–11, 13, 15, 17, 21, 23, 24, 26, 28–30, 32, 34, 36, 38, 44
- Rps1k = Resistant to races 1–11, 13–15, 17, 18, 21–24, 26, 36–38, 44
- Rps3a = Resistant to races 1–5, 8, 9, 11, 13, 14, 16, 18, 23, 25, 28, 29, 31–35, 39, 44, 45
- Rps6 = Resistant to races 1–4, 8, 9, 10, 12, 14–16, 18–21, 25, 28, 33–35, 38, 39, 44, 45

Phytophthora field tolerance

Usually not as complete as race-specific resistance, but it offers general protection. Numerical rating scale of 1–9;
1 = Excellent, 9 = Poor

Adaptation ratings

- ★ Above average performance
- Average performance
- ▼ Variety may not perform consistently
- ✘ Variety not recommended

Performance results are based on North American field trials and are not necessarily consistent with Eastern Canadian recommendations on pages 25–28.

Turn page to see the soybean chart key

Population recommendations by management zone

New Vayantis® IV fungicide seed treatment protects soybeans against a wide range of early-season seed and seedling diseases, including Phytophthora, and offers the broadest spectrum of Pythium control on the market. Vayantis IV also provides a new mode of action with no known cross-resistance, and the Rooting Power® of Vibrance® so soybeans can better defend against soil-borne diseases and get established and standing strong – faster.



VARIETY PLANT TYPES		
Thin	Between	Branching
	NK®07-A7E3	
	NK®14-W6E3	
	NK®19-Y5E3	
	S20-E3	
S26-E3		



VARIETY PLANT TYPES		
Thin	Between	Branching
		S007-Z1X
	S01-C4X	
	S04-J6X	
	S07-K5X	
	S09-R8X	
		S12-M5X
	S14-U9X	
	S16-K2X	
		S18-G4X
	S20-L8X	
	S22-J4X	
		S25-B6X
		S29-R5X
		S31-Y2X



VARIETY PLANT TYPES		
Thin	Between	Branching
S03-W4		
	S03-P4	
	S04-K9	
	S07-M8	
		S10-R2
	S12-J7	
	S20-M1	
		S21-C6

Thin varieties perform best grown in row widths of 15" or less

Between varieties can be managed to act either thin or branching

Branching varieties excel in row widths of 20" or greater with performance across all row widths



VARIETY PLANT TYPES		
Thin	Between	Branching
S0009-M2		
	S007-Y4	
		S008-N2
S04-D3		

YIELD ENVIRONMENT (BU/AC)				
Soil type	Plant type	> 60	40–60	< 40
Sand	Thin	150,000	175,000	200,000
	Branching	120,000	150,000	180,000
Clay	Thin	180,000	200,000	225,000
	Branching	140,000	165,000	190,000
Loam	Thin	160,000	180,000	200,000
	Branching	100,000	125,000	150,000

Increase population by 10% over recommendations if:

- Field has poor drainage and history of early season establishment issues
- Field has history of soil crusting and early season establishment issues
- Planting soybeans later in the season (after June 15th)

Decrease population by 10–20% under recommendations if:

- Field has a high risk or history of white mould

Row width considerations:

- Consider selecting between and branching varieties for row widths of 20" or greater

*At the time of print, Vayantis® was being assessed for registration under the Pest Control Products Act, and cannot be manufactured, imported, distributed, or used in Canada until registration has been obtained from Health Canada. This communication does not constitute an offer for sale. At time of print, registration of Vayantis seed treatment was anticipated July 26, 2021.

Vayantis® IV is an on-seed treatment of Vibrance® Trio fungicide seed treatment and Vayantis fungicide seed treatment.

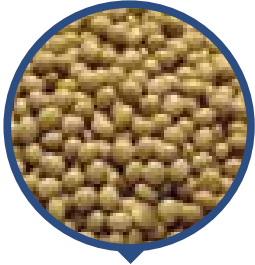
Population recommendations and variety positioning performance ratings are based on Eastern Canadian field trials and are not necessarily representative of the North American data provided on pages 21-24.



Turn page to see the soybean chart key



Genetics x Environment x Management = High-yielding soybeans



Genetics

Seed: Select high-performing seed bred for local conditions.

SCN protection: Guard against yield loss with pest-resistant seed.



Environment

Pest management: Protect crops against weeds, pests and diseases.

Soil type: Understand how to optimize growth by soil type.

Weather: Prepare for and respond to specific weather conditions.



Management

Fertility: Monitor crop nutrition and take appropriate action.

Stand establishment: Make Seedcare™ and planting decisions to start off strong.

Equipment: Calibrate precision equipment for peak performance.

Harvest management: Maximize yield through timing and equipment.

White mould

- Top yield-robbing disease in soybeans with losses of up to 75%.
- Our research capabilities help ensure growers have excellent solutions to white mould.

How to manage:

- Select genetics with excellent tolerance where possible.
- In fields with white mould history and high-risk environments, reduce populations by 10% for varieties with an "excellent" rating and up to 20% for varieties with an "average" rating.
- Consider applying Allegro® fungicide as part of a white mould integrated pest management (IPM) strategy.



Average
NK®07-A7E3
NK®14-W6E3
NK®19-Y5E3
S20-E3
S26-E3

Excellent		Average	
S01-C4X	S20-L8X	S007-Z1X	S18-G4X
S07-K5X	S22-J4X	S04-J6X	S29-R5X
S12-M5X	S25-B6X	S09-R8X	
S14-U9X	S31-Y2X	S16-K2X	

Excellent	Average
S0009-M2	S008-N2
S007-Y4	
S04-D3	

Excellent	Average
S03-W4	S10-R2
S07-M8	S12-J7
	S20-M1
	S21-C6

Pod and stem blight

- Small black raised dots (pycnidia) often in rows on the stem and no pattern on the pods.
- Fungus overwinters in seed and crop residue.
- Warm, wet or humid weather during pod fill favours disease development.

How to manage:

- Variety selection
- Fungicide application
- Residue management



Average
NK®14-W6E3

Excellent		Average	
S12-M5X	S22-J4X	S007-Z1X	S09-R8X
S14-U9X	S29-R5X	S01-C4X	S16-K2X
S18-G4X	S31-Y2X	S04-J6X	S25-B6X
S20-L8X		S07-K5X	

Excellent	Average
S0009-M2	S007-Y4
S04-D3	S008-N2

Excellent	Average
S03-W4	S04-K9
S03-P4	S10-R2
S07-M8	S12-J7
	S20-M1
	S21-C6

Sudden death syndrome (SDS)

- Caused by the fungal disease *Fusarium virguliforme*.
- Potentially linked with soybean cyst nematode (SCN), as nematode feeding allows the entry of secondary pathogens.
- Leaf symptoms caused by toxins produced by the fungus.

How to manage:

- Choose varieties with SDS and SCN resistance
- Apply Salstro seed treatment (see page 33)



Excellent	Average
NK®19-Y5E3	NK®14-W6E3
S20-E3	
S26-E3	

Excellent		Average
S01-C4X	S20-L8X	S16-K2X
S09-R8X	S22-J4X	S25-B6X
S12-M5X	S29-R5X	
S14-U9X	S31-Y2X	
S18-G4X		

Excellent	Average
S03-P4	S03-W4
S04-K9	S07-M8
S12-J7	S10-R2
	S20-M1
	S21-C6

Population recommendations and variety positioning performance ratings are based on Eastern Canadian field trials and are not necessarily representative of the North American data provided on pages 21-24.



Brown stem rot (BSR)

- Pathogen survives in crop debris.
- Infection occurs early in the season but foliar symptoms appear when pods begin to fill (R3-R4).
- Pith will show brown discoloration.

How to manage:

- Rotation
- Residue management
- Variety selection



Excellent	Average
NK®14-W6E3	S26-E3
S20-E3	



Excellent		Average	
S007-Z1X	S12-M5X	S09-R8X	S25-B6X
S01-C4X	S14-U9X	S18-G4X	S29-R5X
S04-J6X	S16-K2X	S20-L8X	S31-Y2X
S07-K5X		S22-J4X	



Average
S0009-M2
S007-Y4
S008-N2
S04-D3



Excellent	Average
S03-P4	S12-J7
S04-K9	
S10-R2	
S20-M1	
S21-C6	

Phytophthora root rot (PRR)

- Caused by soil-borne pathogen *Phytophthora sojae*.
- Most common on poorly drained soils.
- Can infect at all plant stages when conditions favour the pathogen.
- Symptoms usually become apparent two weeks after heavy rains.
- Genetic selection against PRR should include major genes – Rps genes and field tolerance.

How to manage:

- Apply Vayantis IV* seed treatment
- Variety selection
- Improve soil drainage



Excellent	Average
NK®07-A7E3	S26-E3
NK®14-W6E3	
NK®19-Y5E3	
S20-E3	



Excellent		Average
S01-C4X	S18-G4X	S007-Z1X
S04-J6X	S29-R5X	S09-R8X
S07-K5X		S20-L8X
S12-M5X		S22-J4X
S14-U9X		S25-B6X
S16-K2X		S31-Y2X



Excellent	Average
S0009-M2	S008-N2
S007-Y4	
S04-D3	



Excellent		Average
S03-W4	S10-R2	S21-C6
S03-P4	S12-J7	
S04-K9	S20-M1	
S07-M8		


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Vayantis® IV is an on-seed treatment of Vibrance® Trio fungicide seed treatment and Vayantis fungicide seed treatment.


SOYBEANS



2022 TRAITED VARIETIES


CHU 2275–2775



RM 0.009	<h3>S0009-M2</h3>  <ul style="list-style-type: none"> • Maintains medium plant height across variable environments • Dependable Phytophthora root rot field tolerance with Rps6 gene • Superb white mould tolerance
CHU 2275	


RM 0.4	<h3>S04-D3</h3>  <ul style="list-style-type: none"> • Medium plant height with dependable standability • Known for its excellent white mould tolerance • Rps1c gene for Phytophthora root rot with very good field tolerance
CHU 2600	


RM 0.05	<h3>S007-Y4</h3>  <ul style="list-style-type: none"> • Excellent standability for ease of harvest • Strong Phytophthora root rot field tolerance with the Rps1c gene • Solid emergence with excellent white mould tolerance
CHU 2350	


RM 0.4	<h3>S04-J6X</h3>   <ul style="list-style-type: none"> • Soybean cyst nematode resistance • Excellent standability for the highly productive acre • Maintains performance and height on lower yielding acres
CHU 2625	



RM 0.07	<h3>S007-Z1X</h3>  <ul style="list-style-type: none"> • Strong emergence and quick canopy closure in a short season maturity • Great performance to move south of zone as an early harvest option • Large plant type that performs well across soil types and row widths
CHU 2400	

NEW	RM 0.7	<h3>NK[®] 07-A7E3</h3>   <ul style="list-style-type: none"> • Rps3a gene with very good Phytophthora field tolerance • Maintains plant height and structure on tougher soils • Clean and upright plant type allows for improved harvestability
	CHU 2700	

RM 0.08	<h3>S008-N2</h3>  <ul style="list-style-type: none"> • Large plant type with good canopy closure, even under stress • Moves south of zone well • Strong emergence for early-season establishment
CHU 2450	

RM 0.7	<h3>S07-K5X</h3>  <ul style="list-style-type: none"> • Desired Rps3a Phytophthora root rot gene • Taller plant with excellent standability • Strong white mould tolerance
CHU 2700	

RM 0.1	<h3>S01-C4X</h3>  <ul style="list-style-type: none"> • Excellent performance across most soil types • Good plant height, even when moved south of zone • Rps1c with excellent field tolerance to Phytophthora root rot
CHU 2525	

RM 0.9	<h3>S09-R8X</h3>   <ul style="list-style-type: none"> • Performs well regardless of soil type, yield environment, or geography • Rps1c with above-average tolerance to Phytophthora root rot • Good pod height for easy harvest
CHU 2775	

RM
1.2

S12-M5X



- Great performance across yield levels, excelling in high yield environments
- Excellent Phytophthora field tolerance with desired Rps1k/3a gene stack
- Flexibility to place north and south of zone

CHU
2825

NEW

RM
1.9NK[®] 19-Y5E3

- Outstanding tolerance to SDS
- Rps1k gene with strong field tolerance to Phytophthora root rot
- Medium-tall plant type with good stress tolerance

CHU
2950RM
1.4NK[®] 14-W6E3

- Stacked Rps1c,3a genes with very good tolerance to Phytophthora root rot
- Performs well on tough ground and highly productive acres
- Very good standability

CHU
2850

NEW

RM
2.0

S20-E3



- Very strong sudden death syndrome tolerance
- Rps1c/3a stack with excellent field tolerance to Phytophthora root rot
- Great row spacing flexibility

CHU
3000RM
1.4

S14-U9X



- Performs well across a range of soil types
- Very good tolerance to sudden death syndrome and white mould
- Rps1c gene with excellent field tolerance to Phytophthora root rot

CHU
2850RM
2.0

S20-L8X



- Excellent sudden death syndrome and white mould tolerance
- Fast emergence under tough soil conditions
- Excels in lower yielding environments

CHU
3025RM
1.6

S16-K2X



- Excellent performance across yield levels and soil types allows for ease of placement
- Desired Rps1k/3a Phytophthora gene stack
- Great emergence and standability

CHU
2875RM
2.2

S22-J4X



- Excellent performance across most soil types
- Excellent sudden death syndrome tolerance and white mould tolerance
- Very good stress tolerance

CHU
3075RM
1.8

S18-G4X



- Very good standability
- Rps1c Phytophthora gene with solid emergence across multiple soil types
- Very good stress tolerance

CHU
2925RM
2.5

S25-B6X







- Tall, bushy plant type provides fast canopy closure
- Strong white mould tolerance
- Outstanding drought tolerance


CHU
3150





NEW



RM 0.3	<h2>S03-P4</h2>   <ul style="list-style-type: none"> Genetics highly related to S03-W4 with same broad adaptation Higher protein over S03-W4 to drive premiums Stacked Rps1c,3a genes with very good Phytophthora field tolerance
CHU 2600	


RM 1.2	<h2>S12-J7</h2>   <ul style="list-style-type: none"> Performs across a range of soil types allowing for ease of placement Strong soybean cyst nematode protection and desired Rps1c/3a Phytophthora gene stack Exceptional food-grade qualities to drive higher premiums
CHU 2825	



RM 0.3	<h2>S03-W4</h2>  <ul style="list-style-type: none"> Excellent disease package for dependable performance High yield and export demand Consistent performer in most soil types and tillage systems
CHU 2600	

RM 2.0	<h2>S20-M1</h2>   <ul style="list-style-type: none"> Noticeable speed of emergence and vigour allows for broad placement, including on tough acres Maintains height for placement south of zone Yellow hilum with above-average protein and sugars
CHU 3000	

RM 0.4	<h2>S04-K9</h2>   <ul style="list-style-type: none"> Soybean cyst nematode resistance in a food-grade variety Excellent Phytophthora root rot field tolerance with Rps1c gene Very good emergence and early season vigour providing a strong start
CHU 2625	

RM 2.1	<h2>S21-C6</h2>   <ul style="list-style-type: none"> Consistent performance across yield levels Robust plant type that canopies early Solid performance across soils, excelling on clay-based soils
CHU 3050	

RM 0.7	<h2>S07-M8</h2>  <ul style="list-style-type: none"> Tall plant type with very good standability Rps1c with above-average Phytophthora root rot field rating Developed with white mould tolerance
CHU 2725	





RM 1.0	<h2>S10-R2</h2>   <ul style="list-style-type: none"> Tall, bushy plant type that canopies quickly Excellent yields on tough acres Great root disease protection package for early-season start
CHU 2800	

NOTES:

Protect your investment

With NK seed, we tap into the latest Seedcare™ innovations from Syngenta, so you can protect your investment against early-season insect and disease threats.

For 2022, we're offering a choice of two soybean Seedcare packages with the option to add Saltro® on select varieties.

	DISEASES CONTROLLED CAUSED BY						INSECTS						
	Fusarium	Rhizoctonia	Pythium	Phomopsis	<i>Phytophthora megasperma</i> var. <i>sojae</i>	Sudden death syndrome	Bean leaf beetle	Black cutworm	European chafer	June beetle	Seed corn maggot	Soybean cyst nematode	Wireworm
PACKAGE 1													
NEW!  Vayantis® IV ¹	●	●	●	●	●								
PACKAGE 2													
 Fortenza®	●	●	●	●	●		●	● ²	●	●	●		●
NEW!  Vayantis® IV ¹	●	●	●	●	●								
OPTIONAL WITH PACKAGE 1 OR 2 ON SELECT VARIETIES:													
 Saltro®						●						● ³	



Legend

● Control

¹ Vayantis® IV is an on-seed treatment of Vibrance® Trio fungicide seed treatment and Vayantis fungicide seed treatment. At the time of print, Vayantis® was being assessed for registration under the Pest Control Products Act, and cannot be manufactured, imported, distributed, or used in Canada until registration has been obtained from Health Canada. This communication does not constitute an offer for sale. At time of print, registration of Vayantis seed treatment was anticipated July 26, 2021.

² Use for early season feeding damage from bean leaf beetle.

³ At the time of print, Saltro® seed treatment was being assessed for this use pattern under the Pest Control Products Act, and cannot be manufactured, imported, distributed or used in Canada for this use pattern at this time. This communication does not constitute an offer for sale. At time of print, registration of Saltro® for control of soybean cyst nematode was anticipated October 5, 2021.



NEW!

New Vayantis® IV fungicide seed treatment protects soybeans against a wide range of early-season seed and seedling diseases, including Phytophthora, and offers the broadest spectrum of Pythium control on the market. Vayantis IV also provides a new mode of action with no known cross-resistance, and the Rooting Power® of Vibrance® so soybeans can better defend against soil-borne diseases and get established and standing strong – faster.

Fortenza® is a Group 28 insecticide seed treatment that provides control of seed corn maggot, wireworm, European chafer and June beetle. Even under heavy insect pressure, Fortenza helps growers build a strong soybean stand with faster, more uniform growth.

For growers facing sudden death syndrome (SDS) challenges in their soybeans, **Saltro®** fungicide seed treatment sets the new standard in efficacy against SDS without negatively impacting early season development, so they can prevent SDS confidently and protect their profit potential.

NEW

Optimize® LV

RESULTS FOCUSED

NEW concentrated formulation with a lower application rate.

Optimize LV is a dual-action inoculant that delivers the benefits of a specially selected *Bradyrhizobium japonicum* inoculant and LCO technology, now with a new lower application rate.

NexusBioAg shares your focus on maximizing your soybean's potential with Optimize LV. Call your rep today.



Your solution for crop nutrition.

nexusbioag.com

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NexusBioAg

For more information on varieties inoculated with Optimize® LV, consult your retailer.



SEED	PE	VC	V1	V2	R1	R2	R3	R5	MATURITY
 OR AND/OR 									

¹Tavium Plus VaporGrip® Technology is for Roundup Ready 2 Xtend® soybeans only. ²Flexstar GT is for glyphosate-tolerant soybeans only. *This product is unregistered at the time of print and this does not constitute an offer for sale. At time of print, registration of Vayantis® seed treatment was anticipated July 26, 2021. At time of print, registration of Vayantis® IV seed treatment was anticipated July 26, 2021.



The Enlist™ weed control system will change how you think about weed management in soybeans.

Enlist E3™ soybean varieties are now available. Using the Enlist weed control system, farmers can take control of resistant and hard-to-control weeds.

WHY USE THE ENLIST WEED CONTROL SYSTEM?

- A system with new traits providing herbicide tolerance in soybeans and corn
- Herbicide solutions built on an improved form of 2,4-D that lands and stays on target, enables management of hard-to-control and resistant weeds with Group 4 herbicides
- Enlist Stewardship resources that support the use of multiple modes of action to manage resistant weeds, provide training, and promote responsible and sustainable use

Enlist E3™ Soybeans

Enlist E3 soybeans provide high-yielding soybean genetics and industry leading triple-mode of action herbicide tolerance.

WHY USE ENLIST E3 SOYBEANS?

- Enlist E3 soybeans are tolerant to 2,4-D, glyphosate and glufosinate herbicides, which are part of a strong resistance management strategy
- Excellent crop tolerance enabling applications up to the R2 growth stage

Enlist™ herbicides that land and stay on target



COMPLETE CONVENIENCE.

Enlist Duo provides the convenience of both 2,4-D choline and glyphosate in one formulation for control of grasses and broadleaf weeds including hard-to-control and resistant weeds.



FLEXIBILITY AND CHOICE.

Enlist 1, a stand-alone 2,4-D choline formulation, provides the flexibility to tank-mix and adjust the rates of glyphosate or Liberty® 200 SN (glufosinate) for hard-to-control and resistant weeds.

COLEX•D™ technology			
WHAT GOES INTO IT			
2,4-D choline with Colex-D Technology	Latest formulation science	Proprietary manufacturing process	
WHAT IT DELIVERS			
Near zero volatility	Minimized potential for physical drift	Low odour	Improved handling characteristics

Learn more at EnlistCanada.ca

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The value of seed applied insecticides

Seed applied insecticides (SAIs) represent one of the most advanced forms of crop protection technology available, offering growers a targeted, environmentally sustainable means of pest management. Applied directly to the seed only where needed, SAIs require less active ingredient per acre compared to foliar and soil-applied pesticides, and minimize off-target drift, reducing the impact on non-target organisms. For growers who require a fungicide-only seed treatment, NK soybean seed will be available treated with Vayantis IV* seed treatment, and NK corn seed is available treated with Maxim Quattro with Vibrance seed treatment.

Protecting pollinators on the farm

Syngenta is committed to protecting pollinators and continues work to develop and implement additional solutions to address dust generated when planting treated corn and soybean seed and to further efforts on other bee health issues.

Best management practices for the handling of seed treated with an insecticide are an important tool to help maximize the benefits of seed treatments and protect bees and other non-target insects at the same time.

For more information, please visit beehealth.ca

Always read and follow label directions.

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Syngenta is committed to the stewardship of offered technologies and requires Syngenta Stewardship Agreements from growers for all NK seed. The agreement outlines the terms under which a grower may grow and market the technologies sourced from Syngenta. Agrisure corn, Enlist E3™ soybean, Roundup Ready 2 Yield® soybean, Roundup Ready 2 Xtend® soybean and conventional soybean seed will be delivered only to growers with valid agreements.

Seed stewardship is everyone's responsibility

Before opening a bag of seed, be sure to read and understand the stewardship requirements applicable to the seed, including refuge requirements. In addition to the information provided on this page, stewardship requirements may be found in the Syngenta Stewardship Agreement that you signed and/or on the bags/tags accompanying the seed. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements. Visit Syngenta.ca/StewardshipAgreement

Syngenta stewardship corn best management practices

Insect resistance management (IRM)

Bt corn must have an insect resistance management plan. This is a requirement set by the Canadian Food Inspection Agency (CFIA). It is also a strategy endorsed by leading scientists to reduce the risk of insect populations developing resistance to Bt corn.

Syngenta is committed to following, supporting, and providing growers with relevant information to help them implement the IRM requirements set by the CFIA. Therefore, all growers must sign a Syngenta Stewardship Agreement before taking delivery of any Agrisure insect protected corn. Doing so will, in part, demonstrate their commitment to supporting the best management practices to reduce the potential risk of insects developing resistance to the Bt traits.

It is important to recognize that different products may have different insect resistance management requirements.

Failure to comply with refuge requirements may:

- Lead to insect resistance
- Slow down the introduction of new corn technologies that provide additional insect protection
- Affect grower access to Agrisure traited products

Scouting is essential!

Proper observation of your fields, as well as other integrated pest management strategies, will also aid in increasing the longevity of insect traits in the field. In order to first determine potential pest impact, a grower should consider pest populations in the area, crop damage from insect feeding seen in the previous year, and the rotation of the crop (to consider pest overwintering habitats).

Scout refuge plantings to determine the level of insect pressure in your field, then scout the Agrisure hybrids to note their effectiveness and look for signs of damage that may indicate resistance to either the Bt trait or the corn rootworm trait. If concerns arise, please contact your local Syngenta Representative immediately for further field investigation.

Growers should rotate every year if:

- Fields have been in long-term continuous corn systems
- Target insect populations are high
- There have been problems with insect-resistant trait performance

Rotation to crops such as soybeans, alfalfa or small grains will aid in removing the pests' food source and cause a population shift.

For more information about Syngenta corn stewardship, please visit: Syngenta.ca/seedstewardship



Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements when planting insect protected traits as set forth in the Syngenta Stewardship Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

To view recommended planting layouts, maps and configurations, please visit the Canadian Corn Pest Coalition at cornpest.ca or request a Grower's Handbook at 1-800-756-7333.

NOTE: Crops or other material produced from Agrisure corn trait products can only be exported to, used, processed and/or sold in countries where all necessary regulatory approvals have been granted.

Have questions?

Your rep can help.

Your Syngenta representative understands local conditions and has the experience and expertise to recommend the right seed and crop protection solutions for your farm.

Not sure who to contact?



Visit

<https://Go.Syngenta.ca/NK>



Contact

our Customer Interaction Centre at
1-87-SYNGENTA (1-877-964-3682)





Benefits of Certified Seed

Sharing the Message – Success, Farmers Plant It

A purchase of Certified Seed opens the door to new opportunities for success:

- Quality assurance
- Access to new and improved varieties
- Efficient use of inputs
- New marketing opportunities
- Supports the development of new varieties for the future



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Always read and follow label directions. Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain 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. Roundup Ready 2 Xtend®, Roundup Ready 2 Yield®, Roundup Ready® and VaporGrip® are registered trademarks of Bayer Group, Monsanto Canada ULC licensee. © 2021 Bayer Group. All rights reserved.

Hybrid names, as opposed to variety names, are stated in this seed guide. Please contact Syngenta directly or consult the product's bag/tag to obtain the product's variety name.

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions.

These are general considerations. Always consider the specific situation on your field and exercise good agronomic practices.

NK® soybean varieties are protected under granted or pending Canadian variety patents and other intellectual property rights, regardless of the trait(s) within the seed.

The seeds, traits, and technology contained herein, as well as the parental lines and progeny, are covered by intellectual property protection, which may include plant variety certificates, trade secrets and patents which may include, but are not limited to, patented germplasm, transgenic traits, native traits, transformation technologies, methods of use and breeding methods. The purchase/bailment/transfer of these seeds conveys no right under any intellectual property to use these seeds for any purpose. A conditional right for a specific use, including planting for a single commercial crop, must be first obtained by entering into a Syngenta Stewardship Agreement.

Vayantis® is unregistered at the time of print and this does not constitute an offer for sale. At time of print, registration of Vayantis seed treatment was anticipated July 26, 2021.

Vayantis IV is unregistered at the time of print and this does not constitute an offer for sale. At time of print, registration of Vayantis IV seed treatment was anticipated July 26, 2021.

Always read and follow label directions. Maxim Quattro with Vibrance is an on-seed application of Maxim Quattro Seed Treatment fungicide and Vibrance 500FS Seed Treatment fungicide. Miravis® Neo refers to Miravis® Neo 300SE fungicide. Trivapro® is a co-pack of Trivapro® A fungicide and Trivapro® B fungicide. Vayantis IV is a co-pack of Vibrance Trio fungicide seed treatment and Vayantis fungicide seed treatment. AAtrex®, Acuron®, Agrisure®, Agrisure Artesian®, Agrisure Duracade®, Agrisure Viptera®, Boundary®, Callisto®, Endigo®, E-Z Refuge®, Flexstar®, Fortenza®, Foundation Acre®, Halex®, IP Globe™, Magnum®, Maxim®, Mertect®, Miravis®, NK®, NK® and Design, Primextra®, Reflex®, Rooting Power®, RTA®, Salstro®, SCN Solutions™, Seedcare™, Tavium®, Trivapro®, Vayantis®, Venture®, Vibrance®, Voliam Xpress® and the Syngenta logo are trademarks of a Syngenta Group Company. Allegro® is a trademark of ISK Biosciences Corporation. Respect the Refuge® is a trademark of the Canadian Seed Trade Association. Other trademarks are property of their respective owners. © 2021 Syngenta.

