



# CEREALS GUIDE

2026





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## CEREALS

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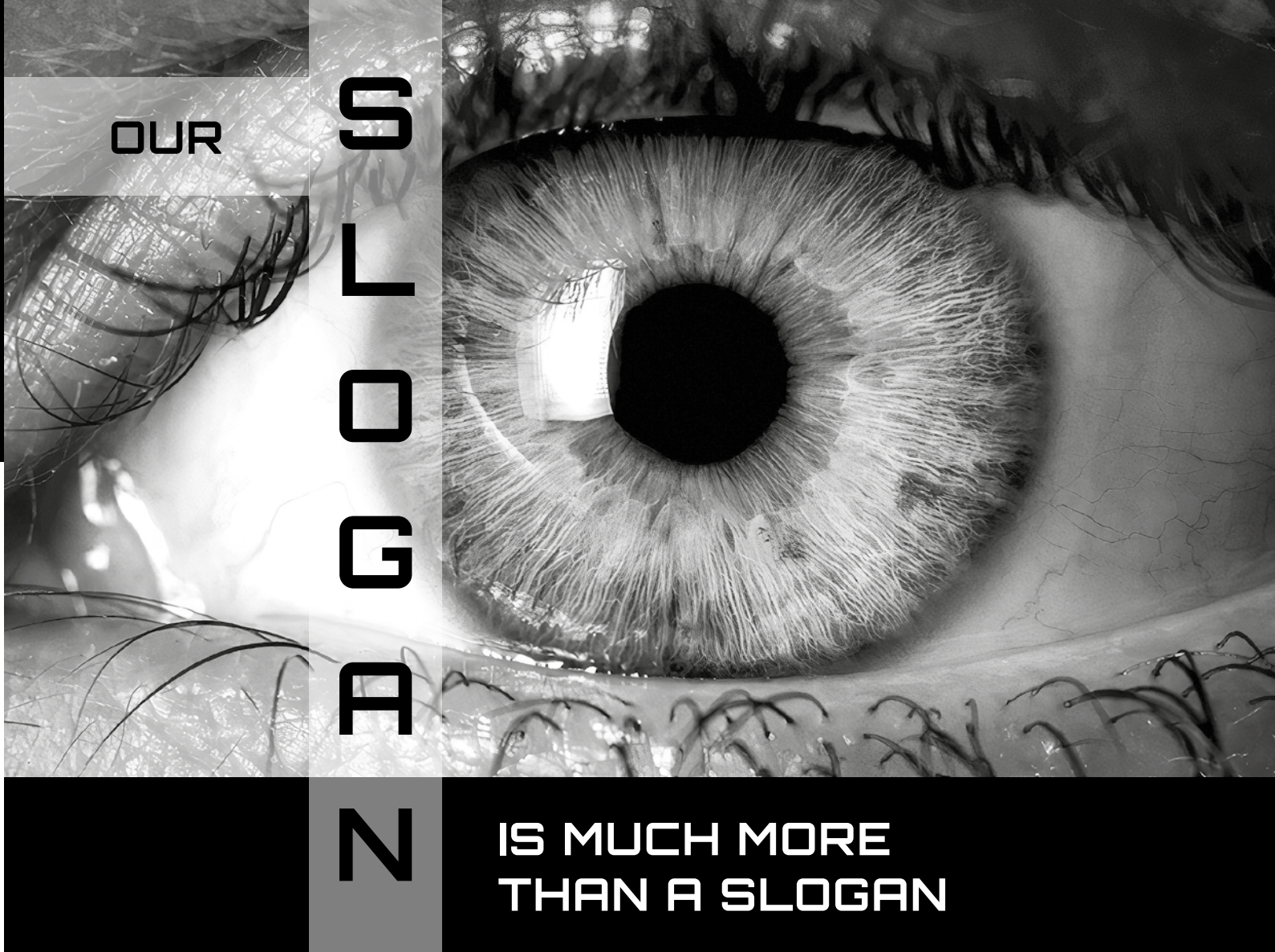
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## PRECISION AG

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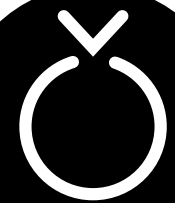
GROW CROPS  
DIFFERENTLY

IT REPRESENTS  
OUR MISSION

“Supporting agricultural producers to make them more productive”



# PREFACE



Jocelyn Tousignant, agr.  
Seed Manager

Jocelyn.tousignant@synagri.ca



Christian  
Duchesneau  
agronomist

## FORAGE



Mylène  
Desautels  
agronomist

## CEREALS



Daniel  
Barré  
agronomist

## SOYBEANS



## PREFACE

Welcome to our 2026 seed guide.

At Synagri, we are constantly striving to improve our seed offering to better meet your needs. We're always on the lookout for the best opportunities for high-performance seeds adapted to our climatic conditions.

In the Forage section, you'll discover new blends designed in response to the specific demands of our customers. Thanks to collaboration with various partners, we have modernized and enriched our range.

Cover crops are growing in popularity year after year. Synagri offers not only standard mixes but also recognized expertise in the custom formulation of multi-species mixes. Our seeds inventory is much larger than what is presented in this guide - for more information, please contact your Synagri representative or authorized dealer.

Our range of spring and fall cereals also continues to evolve to meet the demands of the 2026 planting season.

Enjoy your reading!

Jocelyn Tousignant, agr.  
Seed Manager



### **3 and 5 star Granular**

3 and 5 Star fertilizer,  
more than a high-quality  
product line.



### **3 and 5 star Liquid**

No compromise when it comes  
to performance with our 3 and 5 Star  
liquid starters.



### **YARA**

Yara is a global company involved  
in the production of innovative  
and efficient products.



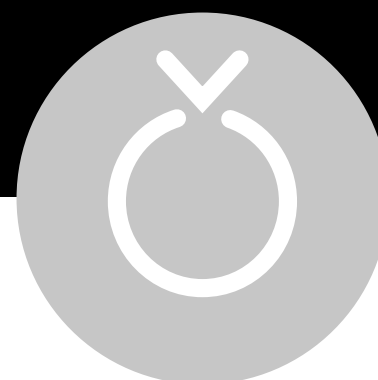
### **N-POWER BLUE**

A unique, synergistic, nitrogenous  
solution with a less  
volatile composition.

## **OUR FERTILIZER**

We are committed to developing and distributing  
high-quality fertilizers that help agricultural producers  
optimize their yields.

If you are looking to improve the quality and yield  
of your crops, or if you simply need advice on crop  
nutrition, feel free to contact your Synagri agent  
or representative.



### **Regular**

High-quality regular granular and liquid  
fertilizer.



### **Amendments**

Liming products, leveraging  
our soils and fertilizer.



## QUALITY ASSURANCE

The seed sector is a constantly evolving industry. Increasingly, seeds serve as the primary carriers of new technologies and represent the essence of the varieties we trust. It is essential to establish rigorous quality control measures to ensure complete integrity.

Throughout the production process, our varieties undergo systematic inspection, sampling, analysis, and evaluation of their germination levels. At each stage, they must adhere to the standards outlined by the Seeds Act and the Regulations of the Canadian Food Inspection Agency (CFIA). The Canadian Seed Grower Association establishes guidelines for field production and issues crop certificates. Now, It's SEED CANADA who is representing seed growers, analysts, breeders, distributors, processors, retailers, service providers and all stakeholders along the seed value chain from coast to coast. Synagri actively participates in all these associations to meet the highest quality standards.

Through its accredited laboratory, Synagri offers germination analysis services for the species listed in Tables 1 to 10 and 18.

A high-quality seed is the first guarantee of a successful harvest!

You are aiming for the  
**ORGANIC**  
Market!

We offer seeds and  
products adapted to  
your needs.

- Cereals
- Forage
- Corn
- Soybeans
- Fertilizers
- Crop protection and health products



Products labelled as GMO-free are gaining traction in the consumer market. Whether from Asia, Europe, or America, many consumers seek information about the origin and traceability of products containing GMOs. At Synagri, we offer a comprehensive portfolio of GMO-free products, including soybeans, corn, grains, and forage plants.

### SOYBEANS

For several years, we have been offering a diverse range of conventional Synagri and Belcan soybeans, including GMO-free options. These soybeans cover a range of Corn Heat Units (CHU) from 2,500 to 2,900. All our conventional soybeans can be ordered with or without seed treatment.

### CORN

Synagri has enhanced its conventional corn range with the addition of a new supplier, Lidea, via Caussade Semences Pro. Lidea supplies organic corn hybrids and some conventional hybrids. These hybrids are produced in France, in a GMO-free zone, which guarantees 0.1% GMO content, and their standard is 0.01% GMO. Horizon Seeds continues to offer us several high-performing conventional hybrids. Those hybrids are evaluated by various growers in Quebec and Ontario. These non-GMO hybrids perform exceptionally well under our conditions. All seed lots undergo PCR analysis (% GMO) by an accredited laboratory. The results are provided to all producers who request them before seed delivery. This ensures that the future buyers' standards are met, as it all begins with the seed.



# CEREALS



**Mylène Desautels, agr.**  
Cereals Expert / Seed Analyst  
mylene.desautels@synagri.ca



In the CEREALS section, you will discover a variety of cultivars resulting from many years of research and development, which Synagri is proud to present.

These cultivars are distinguished by:

- exceptional yield potentials,
- tolerance to certain diseases, including fusarium head blight,
- remarkable bread-making quality with high protein levels,
- and a proven hulless barley for animal feed.

Additionally, several exciting new developments will be available over the next three years.

Stay tuned!

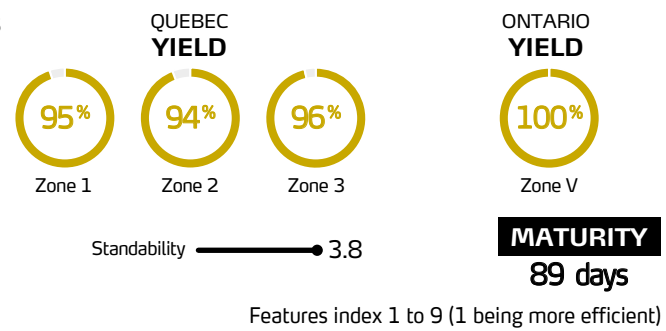


# OATS

## Mistral... for its whiteness

White oat who have a good resistance of leaf diseases

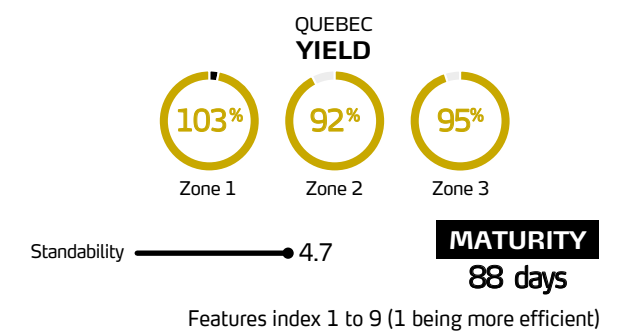
Recommended seeding rates: 350 to 400 seeds/m<sup>2</sup>  
(135 to 155 kg/ha)



## AAC Banner... for oatmeal

Accepted by Quaker, oat with white almonds and a high level of B-Glucan, good disease tolerance.

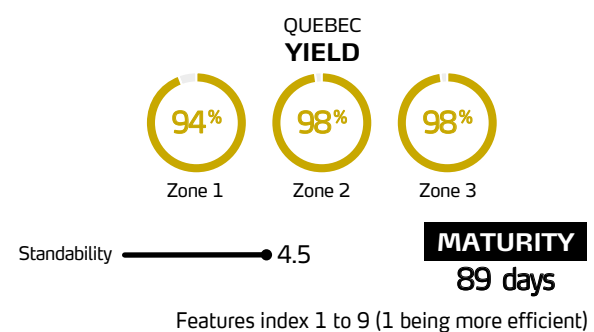
Recommended seeding rates: 350 to 400 seeds/m<sup>2</sup>  
(125 to 145 kg/ha)



## Synextra... the protein pro

Specific weight superior, solid and tall straw

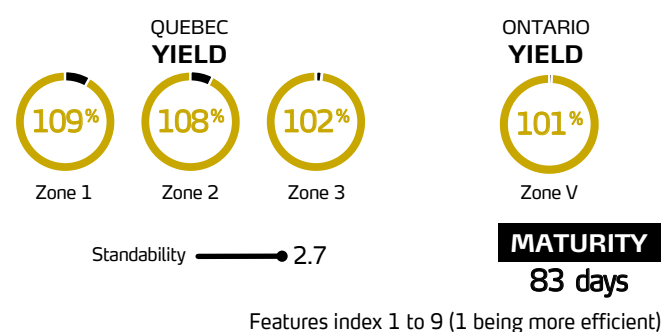
Recommended seeding rates: 350 to 400 seeds/m<sup>2</sup>  
(135 to 155 kg/ha)



## AAC Loki... yield superior

More yield than AAC Nicolas. High level of B-Glucan.

Recommended seeding rates: 350 to 400 seeds/m<sup>2</sup>  
(135 to 150 kg/ha)





# WHEAT



We offer four bread wheats, as well as two feed wheat. Each one has specific unique characteristics.



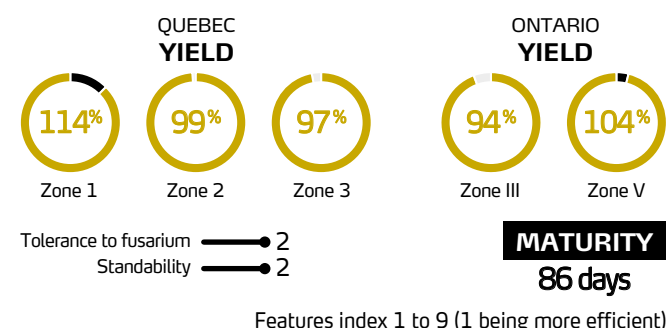
## AAC Synox... superior quality

- Mid maturity
- Outstanding bread-making quality protein % around 15-16
- Good tolerance to Fusarium
- Accepted by Ontario Wheat Board (OWB)

### Crop management positioning

Recommendations:

- Seeding rates 450 to 500 seeds/m<sup>2</sup> (180 to 200 kg/ha)
- Nitrogen dose: 120 to 140 kg/ha
- Intensive management: 150 kg/ha
- Fungicide: T1: If needed  
T2: Recommended  
T3: Recommended
- Growth regulator: recommended, especially in conditions where there is a risk of lodging.



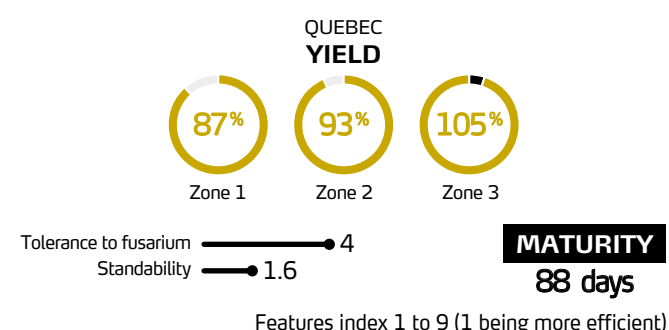
## RGT Presidio... guaranteed yield

- A higher yielding wheat in all growing areas of Quebec
- Exceptional standability
- Suitable for high-performance management with phased fertilization and fungicides

### Crop management positioning

Recommendations:

- Seeding rates 425 seeds/m<sup>2</sup> (165 kg/ha)
- Nitrogen dose: 125 to 150 kg/ha \* according to yield potential.
- Fungicide: T1: If needed  
T2: Essential  
T3: Essential
- Growth regulator: in risk of lodging, otherwise not necessary.



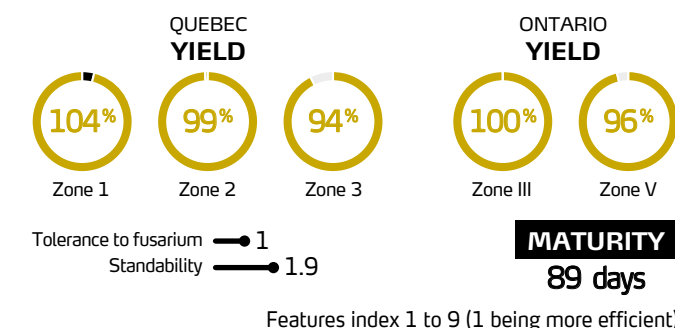
## Major... high tolerance to Fusarium

- None-bearded wheat, late maturing with long straw
- Admissible to Pool C of the OWB since 2012
- Major is one of Quebec bread wheat with the best tolerance to Fusarium head blight (index 2) in Eastern Canada

### Crop management positioning

Recommendations:

- Seeding rates 495 to 575 seeds/m<sup>2</sup> (200 to 230 kg/ha)
- Nitrogen dose: 125 to 150 kg/ha
- Fungicide: T1: If needed  
T2: If needed  
T3: If needed
- Growth regulator: Recommended in conditions where there is a risk of lodging



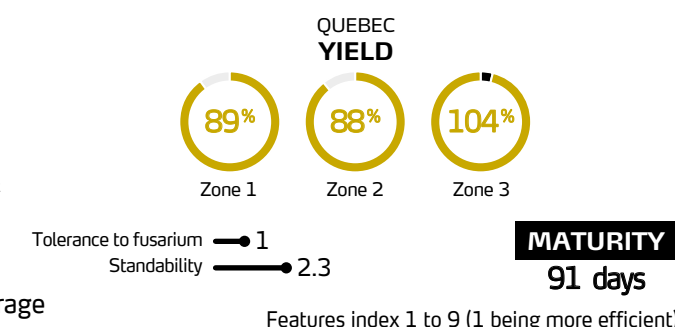
## Sirlaurier... new in our forage offering



- Feed wheat
- For use in mixture or seeding alone
- Excellent yield and tolerance to Fusarium

Recommended seeding rates: 425 to 550 grains/m<sup>2</sup>

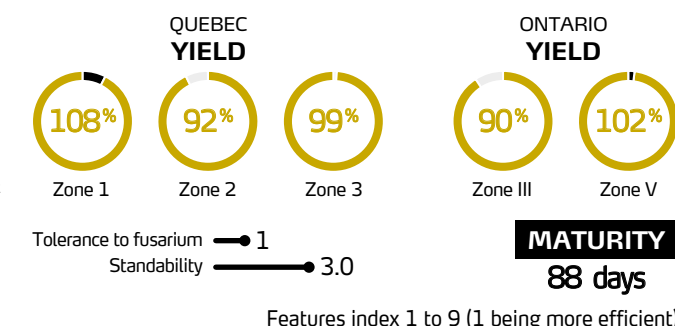
- Conventional: 180 to 185 kg/ha for an average seeding density of 425 seeds/m<sup>2</sup>
- High performance: 220 to 230 kg/ha for an average seeding density of 550 seeds/m<sup>2</sup>



## Audika... for quality and yield

- Excellent yield in all zone
- Good tolerance to diseases like rust and oïdium
- Excellent resistance to fusarium head blight
- Bread-making quality protein around 14%

Recommended seeding rates: 450 to 500 grains/m<sup>2</sup> (170 to 190 kg/ha)





Foliar Nutrition  
for Potato

# YaraVita®

Foliar nutrition and coatings



YaraVita LAST N 25-0-0

**N** NITROGEN



YaraVita HYDROPHOS

**P** PHOSPHORUS



YaraVita AGRIPOTASH

**K** POTASSIUM



YaraVita BORTRAC

**B** BORON



YaraVita POWERBOR

**Ca+B** CALCIUM  
BORON



YaraVita CALTRAC

**Ca** CALCIUM



YaraVita HYDROMAG

**Mg** MAGNESIUM



YaraVita ZINTRAC

**Zn** ZINC



# FCC Input Financing

Take up to 18 months to pay and simplify your cash flow



Learn how at [fcc.ca/Inputs](https://fcc.ca/Inputs)



Through dozens of tests carried out over three years, we have compared the financial profitability of several doses of nitrogen in wheat. You can clearly see in the graphs below that the higher the nitrogen dose, the higher the yields. The challenge is to determine at which nitrogen dose it is no longer profitable to add more. We were able to measure that the most profitable nitrogen dose levels are as follows:

Presidio wheat: **125 to 140 kg/ha**. With more intensive management, **150 kg/ha** is ideal.

AAC Synox wheat: **110 to 130 kg/ha**. With more intensive management, **150 kg/ha** is ideal.

In fields with a lower yield potential, doses of 100 kg/ha are more suitable.



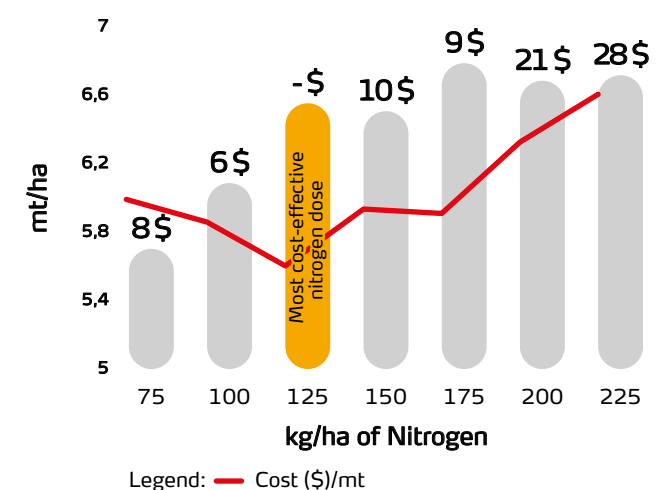
## NITROGEN IN WHEAT

## RESULTS

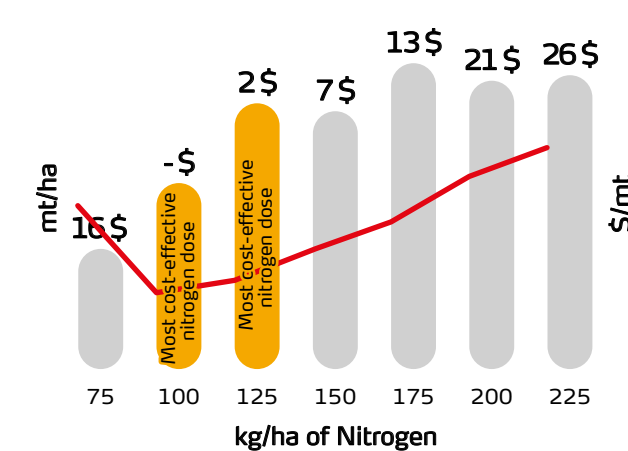
**YaraBela® AXAN 27-0-0-3.75 (S)**

**YaraVera® AMIDAS™ 40-0-0-5.5 (S)**

**PRESIDIO – NITROGEN LEVEL**  
DIFFERENCE OF COST/MT VS. THE LOWEST



**AAC SYNOX – NITROGEN LEVEL**  
DIFFERENCE OF COST/MT VS. THE LOWEST



**Ideally, applications should be done as follows:**

- **50 to 60 kg/ha** of incorporated nitrogen in preplant (with **YaraVera® AMIDAS™**)
- **55 to 90 kg/ha** of nitrogen at Z29 (with **YaraBela® AXAN** end tillering – beginning of stem elongation)
- Nitrogen can also be fractionated by reducing by **25 kg/ha** the dose at Z29, which will be added at Z39 (end of stem elongation, before boot stage) to improve protein level.





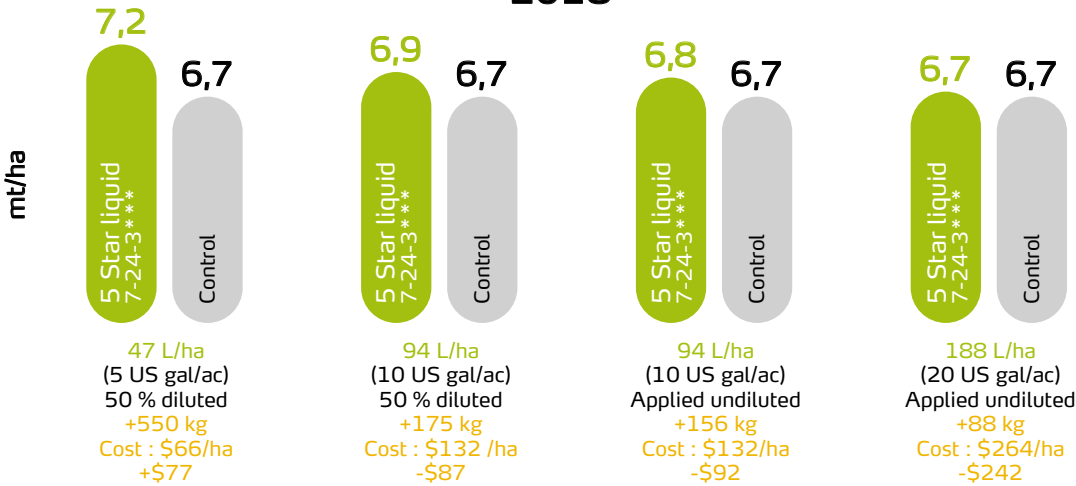
The primary goal of a liquid starter fertilizer, such as the 7-24-3 (5\*), is to promote early plant growth and facilitate rapid root establishment. The effectiveness of a starter fertilizer lies in its ability to provide readily available phosphorus and facilitate quick absorption by the plant.



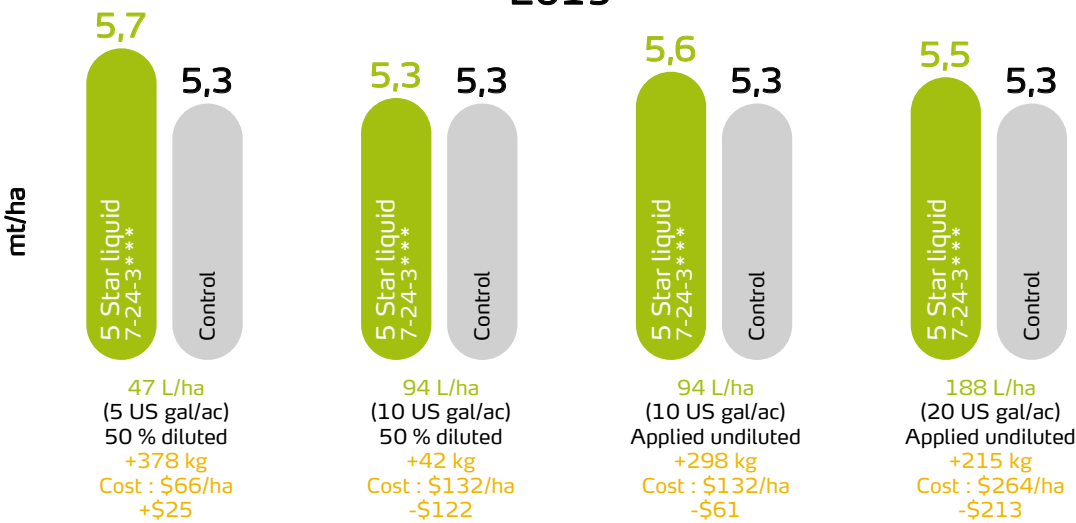
LIQUID  
STARTER  
IN WHEAT

RESULTS

LIQUID STARTER TESTS WITH 7-24-3 (5)\*  
APPLIED IN POP-UP PLACEMENT (NEAR THE SEED)  
2018



LIQUID STARTER TESTS WITH 7-24-3 (5)\*  
APPLIED IN POP-UP PLACEMENT (NEAR THE SEED)  
2019







**JUICE UP YOUR YIELDS**

Environmental stress conditions can have a serious impact on crop quality and yield. New OHM™ biostimulant from UPL has been proven to boost stress tolerance by optimizing nutrient utilization which results in increased root length, leaf size, biomass, plant vigour and higher yield potential. Its easy-to-use formulation can be tank-mixed with any UPL herbicide or fungicide in an integrated **pronutiva**® program for improved plant health in one pass.

Be ready for whatever Mother Nature has in store. Ask your UPL representative or retailer about OHM biostimulant or visit [ohmbiostimulant.ca](http://ohmbiostimulant.ca).

# HIGH YIELDS AND CLEAN FIELDS.



High yields and clean fields. Choose Enlist E3™ soybeans. For control of tough weeds, Enlist™ herbicides offer choice and tank mix flexibility.

**Enlist E3 soybeans. The best in beans. Period.**



Always read and follow label directions. OHM, PRONUTIVA, UPL, the UPL logo and OpenAg are trademarks of a UPL Corporation Limited Group Company. ©2022 UPL Corporation Limited Group Company WHTCA-2200



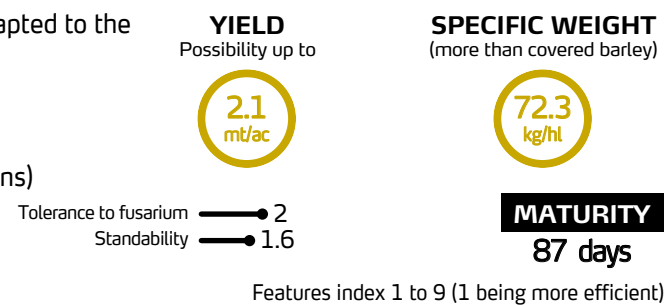


# BARLEY



## Bastile... high nutritional intake

- A 6-row hulless barley that is particularly well adapted to the colder regions
- Variety developed for animal feed to replace corn
  - in zones dedicated to small grains
  - to reduce the impact of toxin content (vomitoxins)
- Very high volumetric weight
- Average straw and appearance
- Excellent Fusarium index



### Crop management positioning

#### Recommendations:

- Seeding rates 415 to 485 seeds/m<sup>2</sup> (170 to 195 kg/ha)
- Nitrogen dose: 80 to 110 kg/ha
- Fungicide: T1: If needed  
T2: If needed  
T3: If needed

Growth regulator: Recommended

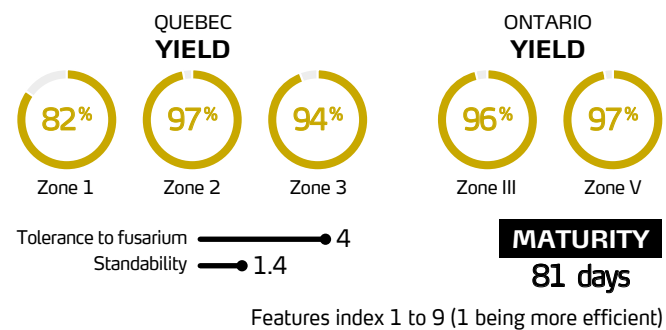
In 2019, trials showed a 20% yield increase.



## Oceanik... a little early

- It's a check for the tolerance to Fusarium in the RGCQ
- Excellent yield in Ontario zone III
- One of the earliest barley varieties

Recommended seeding rates: 375 to 440 seeds/m<sup>2</sup> (180 to 200 kg/ha)

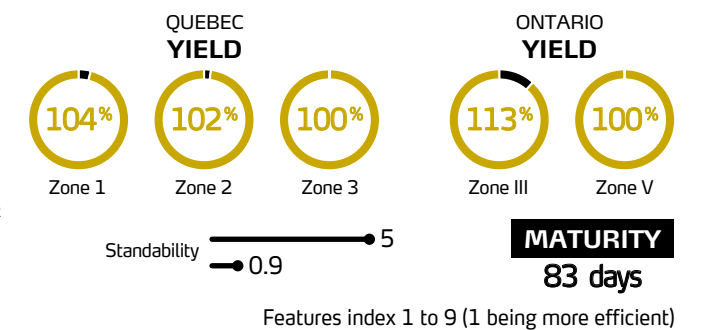


## Waterloo... best yield in its category

In top 3 of the better in yield grains on market in all aeras.

- Long and solid straw
- Specific weight around 68 kg/hL

Recommended seeding rates : 375 to 440 seeds/m<sup>2</sup> (180 to 210 kg/ha)



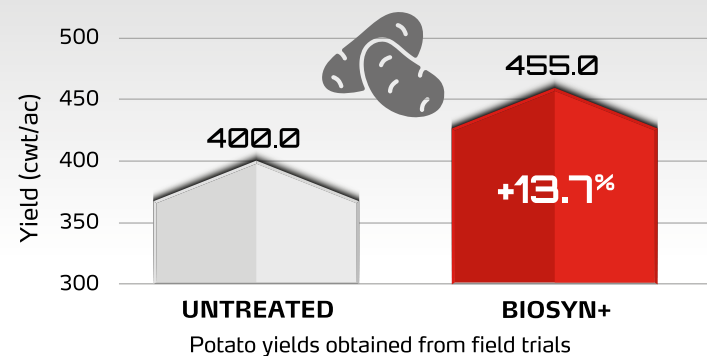




# BioSYN+

THE BENEFITS OF HUMIC SUBSTANCES FOR CROPS

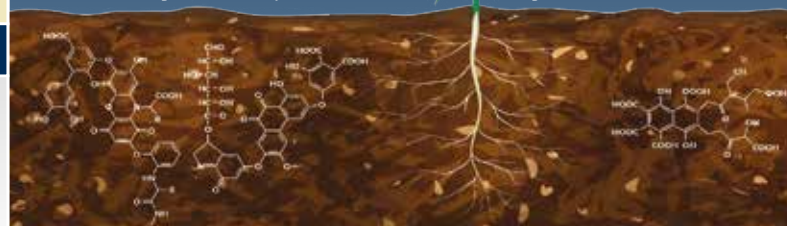
THE TECHNOLOGY THAT MAKES BIOSTIMULANT AVAILABLE TO EVERY PLANT



BioSYN+ offers a formulation of biostimulants with proven performance

## BioSYN+ improves

- Root growth
- Nutrient uptake
- Total biomass
- Growth rate
- Abiotic stress tolerance
- Early development and maturity



### BioSYN+ Typical Analysis

- Humic Acids 11.8%
- Highly compatible with other fertilizer coating products, including micronutrients.
- Derived from Leonardite.

# Listen • Learn • Deliver

*It's that simple.*

## Cereals



**NEW Portfolio** of ALL IN cereal herbicides means one convenient container—no guesswork—no worries.

The enhanced convenience of key active ingredients in one jug simplifies spray management without sacrificing agronomically effective weed control.

Scan the QR code below to check out ESTEEM ALL IN™, FORCEFIGHTER™ ALL IN, and RUSH 24 ALL IN™, as well as our other cereal solutions.



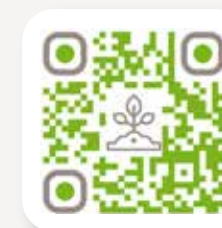
## Soybeans



**The largest library** of actives in the world offers you more choices for weed control in soybeans.

Herbicide products like PHANTOM® 240 SL provide growers with broadleaf and grassy weed control along with residual control to eliminate early-season weed competition.

Scan the QR code for more ADAMA solutions for soybeans.



## Blueberries



SORATEL® fungicide, our first product featuring Asorbital® Formulation Technology, offers:

- **5% higher efficacy** versus competitive products
- Improved leaf penetration into the plant
- Preventative, eradicated and curative control of multiple diseases including mummy berry.

Scan the QR code for more ADAMA solutions for blueberries.



Increase your average yields in corn with BioSYN+

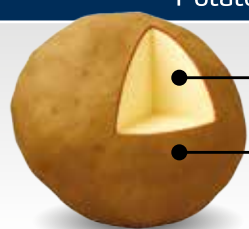
↑ **13.7%** or **55 cwt/ac** ↑

Increase your net income\*  
(based on a potato price of \$15/cwt)

**795 \$/ac**  
\*Including the cost of the product

FARM ACRES IN POTATO	ADDITIONAL BUSHEL YIELD	NET ADDITIONAL INCOME
Based on an initial potato yield of 400 cwt/ac		
100	5 501	\$79 516
250	13 753	\$198 791
500	27 505	\$397 581
1 000	55 011	\$795 162

Potato price set at \$15/cwt



Fertilizer granule

**BioSYN+**

A biostimulant that coats the fertilizer and increases nutrient absorption

**GUARANTEE UNIFORM DISTRIBUTION AND COVERAGE**



Always read and follow label directions.  
Toll-free: 1.855.264.6262  
Website: ADAMA.COM

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# BARLEY

## Context

In recent years, it has become increasingly popular among dairy farmers to optimize the use of farm-produced grains in their herd's feed. In more northern regions, such as the Saguenay–Lac-Saint-Jean region, the production of corn, the reference energy feed, is rather minimal due to the short growing season and the low corn heat units brought about by the climate. Companies are therefore constantly looking for crops with the characteristics needed to grow in northern conditions and that can be used to provide energy for their livestock feed. Since barley is an early cereal with a good energy source, it represents an interesting alternative.

## Goals

To study the effects of hulless barley as a replacement for corn on the zootechnical and technical-economic performance of dairy cows under commercial farm conditions.

## Methodology

Two homogeneous groups of cows at the start of the trial

Treatment	Corn (n = 15)	Hulless Barley (n = 15)
Lactation days	115	115
Parity	2.9	3
Milk production (kg)	41	41
Fat (%)	4.36	4.58
Protein (%)	3.51	3.45
SCC/ml	68,000	60,000
LPI	2,367	2,309

Ingredient	Corn	Hulless Barley
Supplement	1,208 g	243 g
Corn	3.4 kg	0
Hulless Barley	0	3.4 kg
Mineral	244 g	345 g

- Cow tracking;
- Bolus pH and temperature on two sentinel cows from each group;
- Milk components on six milk checks.

## 2018 Economic Study

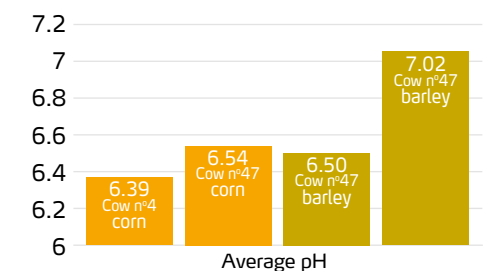
Purchase price of ground corn (\$/t)	Purchase price of ground hulless barley		
	\$275	\$250	\$225
\$255	<b>\$138</b>	\$169	\$200
\$265	\$169	\$181	\$213
\$275	\$200	\$194	\$225
\$285	\$150	\$206	<b>\$238</b>
Savings between \$6,900 and \$11,900 per year for a herd of 50 cows			

Purchase price of ground corn (\$/t)	Hulless barley yield (t/ha)				
	3	3.5	3.8	4	4.5
\$255	<b>3.5</b>	\$179	\$200	\$212	\$237
\$265	3.8	\$191	\$212	\$224	\$250
\$275	4	\$203	\$225	\$237	\$262
\$285	4.5	\$216	\$237	\$249	<b>\$275</b>
Savings between \$6,675 and \$13,750 per year for a herd of 50 cows					

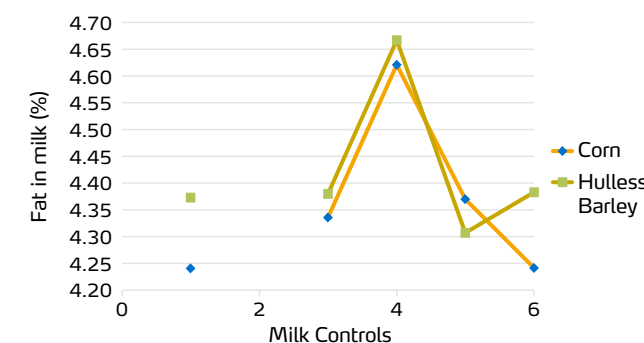
## Zootechnical Results

Treatment	Corn	Hulless Barley	P-value
Milk production (kg/day)	36.9	37.1	0.91
Milk production 4% (kg/day)	38.4	39	0.72
Milk composition (%)			
Fat (%)	4.36	4.42	0.44
Protein	3.51	3.55	0.34
Lactose	4.61	4.56	0.08
Total solids	13.53	13.53	0.73
Urea (N mg/dL)	9.94	11.25	< 0.001
SCC/ml	145,000	116,000	0.44

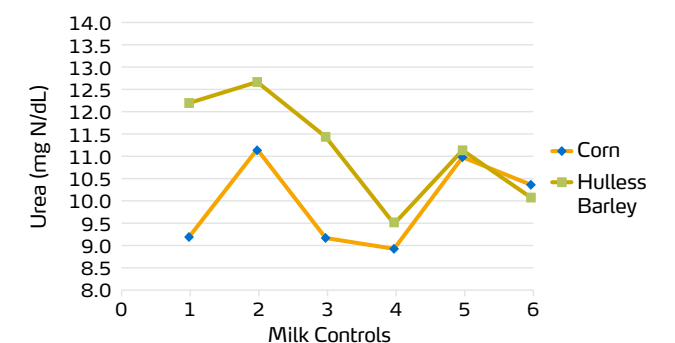
### Average Ruminal pH Values of Four Sentinel Cows



### Milk Fat Composition



### Urea Milk Composition



## Conclusion

- Substitution of 38.5% of corn by hulless barley = equivalent zootechnical performances
- Hulless barley: an interesting alternative for northern regions and organic farms (non-GMO hulless barley)
- It is preferable to include hulless barley in a PMR or a TMR (avoid any sorting)
- Instead of purchase, on-farm hulless barley production is more advantageous if a yield of 4 t/ha or more is achieved.

## Financial Partners

### ACKNOWLEDGEMENTS

- Gabriel Guay and Jacob Gauthier (Ferme des Sureau inc.)
- Cécile Tétreault, (Synagri)
- Frédérick Ouellet, agr.

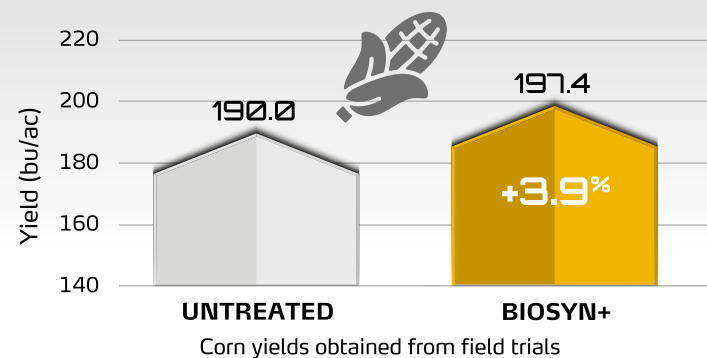




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THE TECHNOLOGY THAT MAKES BIOSTIMULANT AVAILABLE TO EVERY PLANT



BioSYN+ offers a formulation of biostimulants with proven performance

## BioSYN+ improves

- Root growth
- Nutrient uptake
- Total biomass
- Growth rate
- Abiotic stress tolerance
- Early development and maturity

### BioSYN+ Typical Analysis

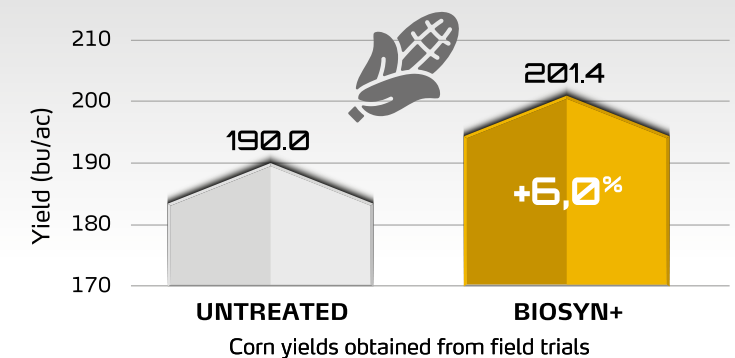
- Humic Acids 11.8%
- Highly compatible with other fertilizer coating products, including micronutrients.
- Derived from Leonardite.



# BioSYN+

FORMULATED WITH BACTERIAL STRAINS THAT PROMOTE PLANT GROWTH

THE TECHNOLOGY THAT MAKES BIOSTIMULANT AVAILABLE TO EVERY PLANT



Ease of application – no special storage conditions

Increase your average yields in corn with BioSYN+ biostimulant

↑ 6.0% or 11.4 bu/ac ↑

Increase your net income\*  
(based on a corn price of \$5.85/bu)

56\$/ac  
\*Including the cost of the product

FARM ACRES IN CORN	ADDITIONAL BUSHEL YIELD	NET ADDITIONAL INCOME
--------------------	-------------------------	-----------------------

Based on an initial corn yield of 190 bu/ac

100	1 140	\$5 669
250	5 700	\$28 345
500	11 400	\$56 690
1 000	28 500	\$141 725

Corn price set at \$5.85/bu



## BioSYN+

It is mixed with our superior quality liquid fertilizers

Powered by



GUARANTEE UNIFORM DISTRIBUTION AND COVERAGE

Increase your average yields in corn with BioSYN+

↑ 3.9% or 7.4 bu/ac ↑

Increase your net income\*  
(based on a corn price of \$5.85/bu)

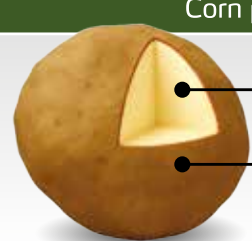
36\$/ac  
\*Including the cost of the product

FARM ACRES IN CORN	ADDITIONAL BUSHEL YIELD	NET ADDITIONAL INCOME
--------------------	-------------------------	-----------------------

Based on an initial corn yield of 190 bu/ac

100	740	\$3 631
250	3 701	\$18 153
500	7 403	\$36 305
1 000	18 506	\$90 763

Corn price set at \$5.85/bu

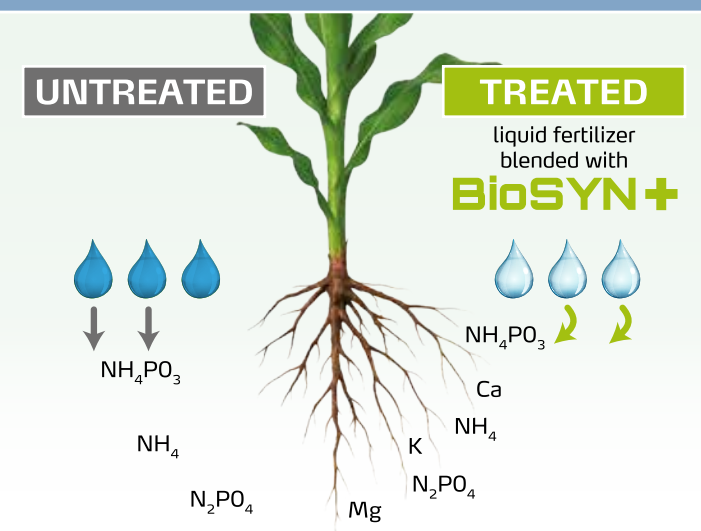


Fertilizer granule

## BioSYN+

A biostimulant that coats the fertilizer and increases nutrient absorption

GUARANTEE UNIFORM DISTRIBUTION AND COVERAGE



## BioSYN+ improves

- Root development
- Plant vigor
- Yield potential and harvest quality
- Return on fertilizer investment

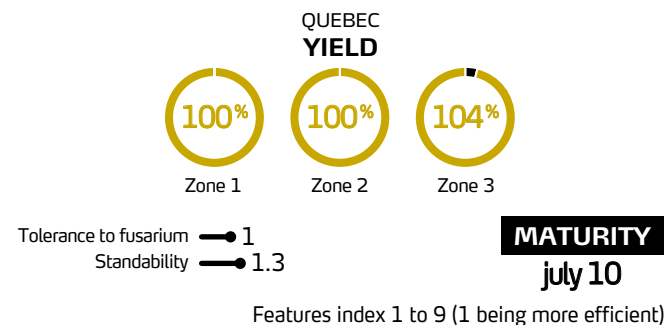


Possibility of making **special mixtures**, with the proportions and components of your choice, according to stock availability.  
\*A minimum number of bags is required.

## Carnaval... doesn't feel the cold

- This feed quality wheat is **adapted to our winter conditions**
- The highest relative yield in its RGCQ trials
- Index 2 for Fusarium
- Very good winter survival, 95% average for 3 years**
- Good quantity of straw with excellent resistance to lodging

Recommended seeding rates: 500 to 550 seeds/m<sup>2</sup> (190 to 220 kg/ha)

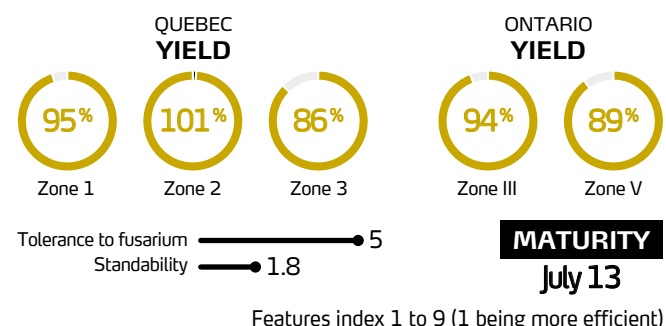


## Pro 81...



It's a hard red winter wheat, with good resistance to diseases, Excellent winter survival and a good level of protein.

Recommended seeding rates: 500 to 550 seeds/m<sup>2</sup> (190 to 210kg/ha)



All the SYNAGRI exclusive cereal seed mixtures are designed to ensure the best combination of varieties according to the nutritional needs required. Particular attention is always a priority in order to harmonize the maturity, length of straw and tolerance to lodging in the combined varieties.

## Cereal Mixtures with 2 varieties...

to improve the nutritional value of oat

	Species	Varieties <sup>1</sup>	Seedind rate	Benefits
SEM 610	60% Wheat 40% Oat	Sirlaurier Mistral	140 kg/ha	<ul style="list-style-type: none"> <li>Protein and energy contribution from the wheat</li> <li>Curative, fibrous contribution from the oats</li> <li>Balanced mix in less fertile soils and a better nutritional yield</li> </ul>

## Cereal Mixtures with 3 varieties...

best mixtures for balance, in the field and in the barn

	Species	Varieties <sup>1</sup>	Seedind rate	Benefits
SEM 530	50% Wheat 25% Oat 25% Hulless Oat	Sirlaurier Mistral Lavoie	135 kg/ha	<ul style="list-style-type: none"> <li>Possibility of seeding in a greater range of soils</li> </ul>
SEM 520	50% Wheat 25% Oat 25% Barley	Sirlaurier Mistral Waterloo	135 kg/ha	<ul style="list-style-type: none"> <li>Balanced nutritional ratio</li> <li>Very good yield potential</li> <li>Excellent synergy between species</li> <li>Great adaptability</li> </ul>
SEM 350	35% Wheat 35% Peas 30% Oat	Sirlaurier CDC Meadow Mistral	165 kg/ha	<ul style="list-style-type: none"> <li>Uniform maturity, balanced mix</li> <li>Basis of a well-balanced animal feed</li> <li>Good protein input coming from peas and wheat</li> <li>Adaptable to every soil type</li> </ul>

## Cereal Mixtures with 4 varieties...

for constant and balanced mixtures

	Species	Varieties <sup>1</sup>	Seedind rate	Benefits
SEM 250	25% Wheat 25% Oat 25% Barley 25% Peas	Sirlaurier Mistral Waterloo CDC Meadow	165 kg/ha	<ul style="list-style-type: none"> <li>Diversified mix combining different species</li> <li>Very well-balanced to act as a base in quality animal feed</li> <li>Balanced components</li> </ul>

1. Subject to availability

## Facts on Cereal Mixtures

The components variation percentage (± 5%) is not necessarily the most important factor in the choice of a mixture. The environmental conditions in the current year determine the development of every component in the mixture. There is a complex relationship between seed characteristics and the environment in which they will compete with one another for space, water, nutriment and light. There are more advantages in growing mixtures in an uncertain farming environment.

\* 91 : Plant's breeder right of the International Union for the Protection of New Varieties of plants.



## Forage Mixtures with 2 or 3 varieties... for use as a cover crop, green crop harvested at the filling stage

Species		Seedind rate	Benefits
SEM 500	50% Forage Oat <sup>1</sup> 50% Forage Peas <sup>2</sup>	120 kg/ha	<ul style="list-style-type: none"><li>▪ Mix similar to Sem 400 but without the wheat</li><li>▪ Totally appropriate for Quebec’s cooler regions</li><li>▪ Better yield than seeding a single forage plant</li><li>▪ Oats contributes to yield and nutritional qualities</li><li>▪ Peas preserve quality in case of late harvest</li><li>▪ Helps ingestion</li></ul>
SEM 400	40% Forage Wheat 40% Forage Peas <sup>2</sup> 20% Forage Oat <sup>1</sup>	130 kg/ha	<ul style="list-style-type: none"><li>▪ Extremely efficient mix that can attain 3,800 to 4,500 kg/ha of dry matter at the first cut</li><li>▪ Wheat has a better yield than oats, especially in warm regions</li><li>▪ Possible analysis of 16 to 20% total protein</li><li>▪ Adaptable to many types of storage</li><li>▪ Peas preserve quality in case of late harvest</li><li>▪ Can be grown in any soil type</li><li>▪ Good competition for weeds</li><li>▪ Maintains good soil</li></ul>

<sup>1</sup> CDC Haymaker    <sup>2</sup> Lacross (stock availability)

### Seeding rate

Recommended seeding rates are given for guidance only; the weight of 1000 each specific grains each lot remains the best tool for the calculation of an accurate seeding.

Spring Wheat      425 to 550 seeds/m²  
Barley                375 to 440 seeds/m²  
Oat                    350 to 400 seeds/m²

Seeding rate for different varieties used as a cover crop: -30% of the density of the seed suggested

### 1000 Seed Weight (TKW) in Grams of the Variety to Seed

Desired established population (plants/m²)	Seeding density (grains/m²)	30		32		34		36		38		40		42		44		46		48		50	
		lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha	lb/a	kg/ha
280	325	87	98	93	104	98	111	104	117	110	124	116	130	122	137	127	143	133	150	139	156	145	163
300	350	94	105	100	112	106	119	112	126	118	133	125	140	131	147	137	154	143	161	150	168	156	175
320	375	100	113	107	120	114	128	120	135	127	143	134	150	140	158	147	165	154	173	160	180	167	188
340	400	107	120	114	128	121	136	128	144	135	152	143	160	150	168	157	176	164	184	171	192	178	200
360	425	114	128	121	136	129	145	136	153	144	162	151	170	159	179	167	187	174	196	182	204	189	213
380	450	120	135	128	144	136	153	144	162	152	171	160	180	168	189	176	198	184	207	192	216	200	225
400	475	127	143	135	152	144	162	152	171	161	181	169	190	178	200	186	209	195	219	203	228	212	238
420	500	134	150	143	160	151	170	160	180	169	190	178	200	187	210	196	220	205	230	214	240	223	250
440	525	140	158	150	168	159	179	168	189	178	200	187	210	196	221	206	231	215	242	224	252	234	263
460	550	147	165	157	176	167	187	176	198	186	209	196	220	206	231	216	242	225	253	235	264	245	275
480	575	154	173	164	184	174	196	184	207	195	219	205	230	215	242	225	253	236	265	246	276	256	288
500	600	160	180	171	192	182	204	192	216	203	228	214	240	224	252	235	264	246	276	257	288	267	300

Source: CPVQ 1988 - Spring Cereals

Note: The desired population, in plants/m², represents 85% (minimum germination percentage required for grade 1 pedigreed seeds) of the seeding density in seeds/m².

### Determining the Seeding Rate

The seeding rate in kg/ha (lb/ac) is calculated according to the desired density and seed size (g/1000 seeds). For the same population, the smaller the seed, the lower the seeding rate.

$$\text{kg/ha} = (\text{g/1000 seeds}) \times (\text{seeds/m}^2) / 100$$

Example of seeding rate calculation:

AAC Synox wheat weighing 40 g for 1000 seeds. For a seeding density of 450 seeds/m².  
(40 g/1000 seeds) × (450 seeds/m²)/100 = 180 kg/ha

Number of seeds to be sown by linear meter in relation to the disc row spacing and the desired number of seeds per square meter.

Row spacing		Desired Number of Seeds per m²												
In	mm	300	325	350	375	400	425	450	475	500	525	550	575	600
4	102	30.6	33.2	35.7	38.3	40.8	43.4	45.9	48.5	51	53.6	56.1	58.7	61.2
5	127	38.1	41.3	44.5	47.6	50.8	54	57.2	60.3	63.5	66.7	69.9	73	76.2
6	152	45.6	49.4	53.2	57	60.8	64.6	68.4	72.2	76	79.8	83.6	87.4	91.2
7	178	53.4	57.9	62.3	66.8	71.2	75.7	80.1	84.6	89	93.5	97.9	102.4	106.8

You can also use the table above; Weight of 1,000 seeds in grams of the variety to be sown.

The first column represents the desired established population (plants/m²) in the field for a minimum germination of 85%. If the germination is higher, the established population will also be higher. The second column represents the seeding density (seeds/m²) to be used to obtain the desired final field population. This column should also be used to calculate the seeding rate. For example, if we use a seeding density of 450 seeds/m² and the germination rate of our seed is 85%, we can expect to have a population of 380 plants/m². The other columns of the table represent the seeding rate in kg/ha or lb/ac depending on the 1,000 seed weight (1<sup>st</sup> row).





## THE HERBICIDE EQUIVALENT OF A SNEAK ATTACK.

Introducing residual control for corn that's unlike any other.

This is no ordinary residual. Surtain™ herbicide is a first-of-its-kind formulation that unleashes a sneak attack on broadleaf and grassy weeds in corn. Applied from pre- to early post-emerge, this powerful combination of Group 14 and 15 chemistry offers residual endurance, making Surtain an excellent tank-mix partner. And when it strikes, emerging weeds won't know what hit them. Visit [agsolutions.ca/surtain](https://agsolutions.ca/surtain) to learn more.

**Surtain™**  
Herbicide

**BASF**  
We create chemistry

Always read and follow label directions.

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# PROUD TO BE PART OF YOUR STORY



This shirt has stories to tell. About amazing yields, once-in-a-hundred year storms and getting the last acre of seed in before the weather turns. It's been there for you. And so has the name on the front. DEKALB® will never stop delivering high-performing corn and soybean seed with the advanced genetics and traits you depend on, all backed by Bayer. No wonder it's the brand farmers are most willing to recommend\*.



#MakingHistory

DEKALB.ca | 1 888-283-6847 | @DEKALB\_Canada | @Bayer4CropsCA

\* Source: Stratus Ag Research (2024)

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# PRECISION AG



Precision agriculture is a farmland management principle which aims for the optimization of yields and investments according to the environmental variabilities. The ultimate objective is to increase yield with the same surface of land: less pesticides, less fertilizers, less seeds, less fuel, and less hours of labour to obtain the same harvest.

**Stéphane Gagnon, agr.**  
Agronomic Data Manager  
stephane.gagnon@synagri.ca



**We are experts  
who can help you  
improve your land's  
profitability.**

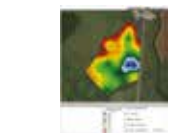
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Wintex hydraulic probe  
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**Soil Analyzes**  
Comprehensive and easy-to-understand analysis report



**Georeferenced Mapping**  
Comprehensive visual report of the state  
of field fertility



**Recommendations for  
Lime and Variable-Rate Fertilizers**



**Recommendations for Nitrogen  
and Variable-Rate Seedling**



**Digital Farming Management Platform**  
Agronomic management of your  
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# YOUR HARVEST

THE MORE YOU KNOW, THE BETTER YOU'LL GROW.



Turn smart farming today, into even smarter farming tomorrow. FieldView™ gives you the tools you need to analyze yield data and turn this year's harvest data into actionable insights for next year, to help you make the most of every season to come.

With FieldView,  
IT'S ALWAYS **KNOWING SEASON.**



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with BioSYN+ biostimulant

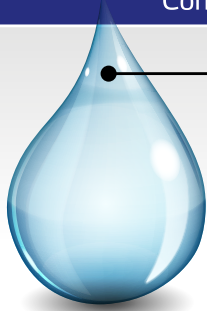
↑ **6.0%** @ **11.4 bu/ac** ↑

Increase your net income\*  
(based on a corn price of \$5.85/bu)

**56 \$/ac** \*Including the cost of the product

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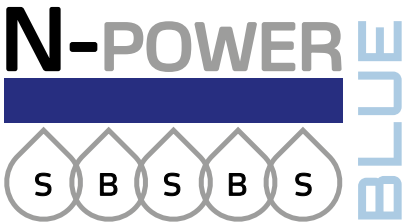
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**BioSYN+**  
It is mixed with our superior  
quality liquid fertilizers

Powered by  
**Mosaic**  
BIOSCIENCES™

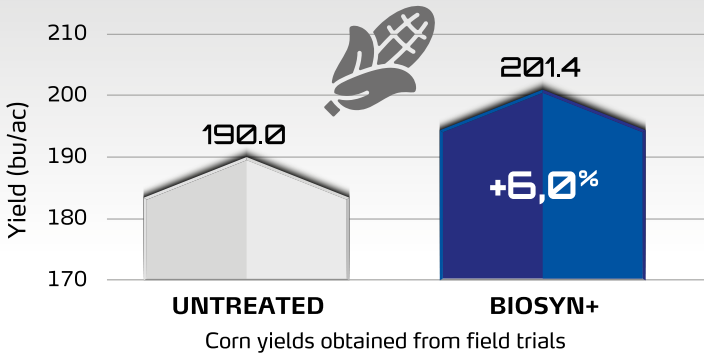
**GUARANTEE UNIFORM  
DISTRIBUTION AND COVERAGE**



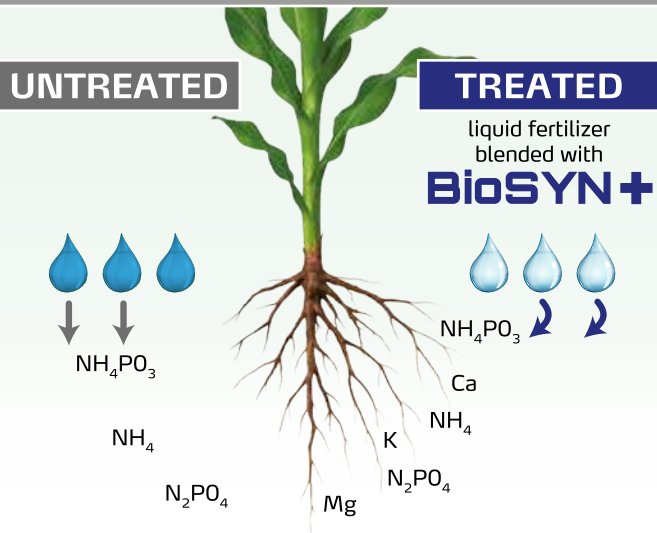
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# BioSYN+ improves

- Root development
- Plant vigor
- Yield potential and harvest quality
- Return on fertilizer investment





**Knowledge grows**

# Growing a Nature-Positive Food Future

Yara's combination of agronomic knowledge, digital tools and high-quality crop nutrition solutions enable us to support farmers worldwide, optimize yields, produce healthier crops, and enhance soil health.



Yara collaborates with partners to support local growers by delivering solutions that improve nutrient and water use efficiency, advocate for 4R nutrient stewardship and by sharing our more than 100 years of knowledge in crop nutrition.



For more than 10 years, we committed R&D resources to build biostimulant solutions backed by 55 years of formulation knowledge, ensuring the products are safe, effective, easy to use, and will contribute to a resilient food system.



Our global ambition is to grow a nature-positive food future through climate neutrality, regenerative agriculture and grower prosperity.

**Contact your Yara representative to partner today.**

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