



SEEDS GUIDE

2026-2027

SEEDS. SOLUTIONS.
FOR PROFITABLE AND SUSTAINABLE PERFORMANCE.



CEREALS

Oat Varieties
Wheat Varieties
Barley Varieties
Winter Cereals
Cereals Mixtures





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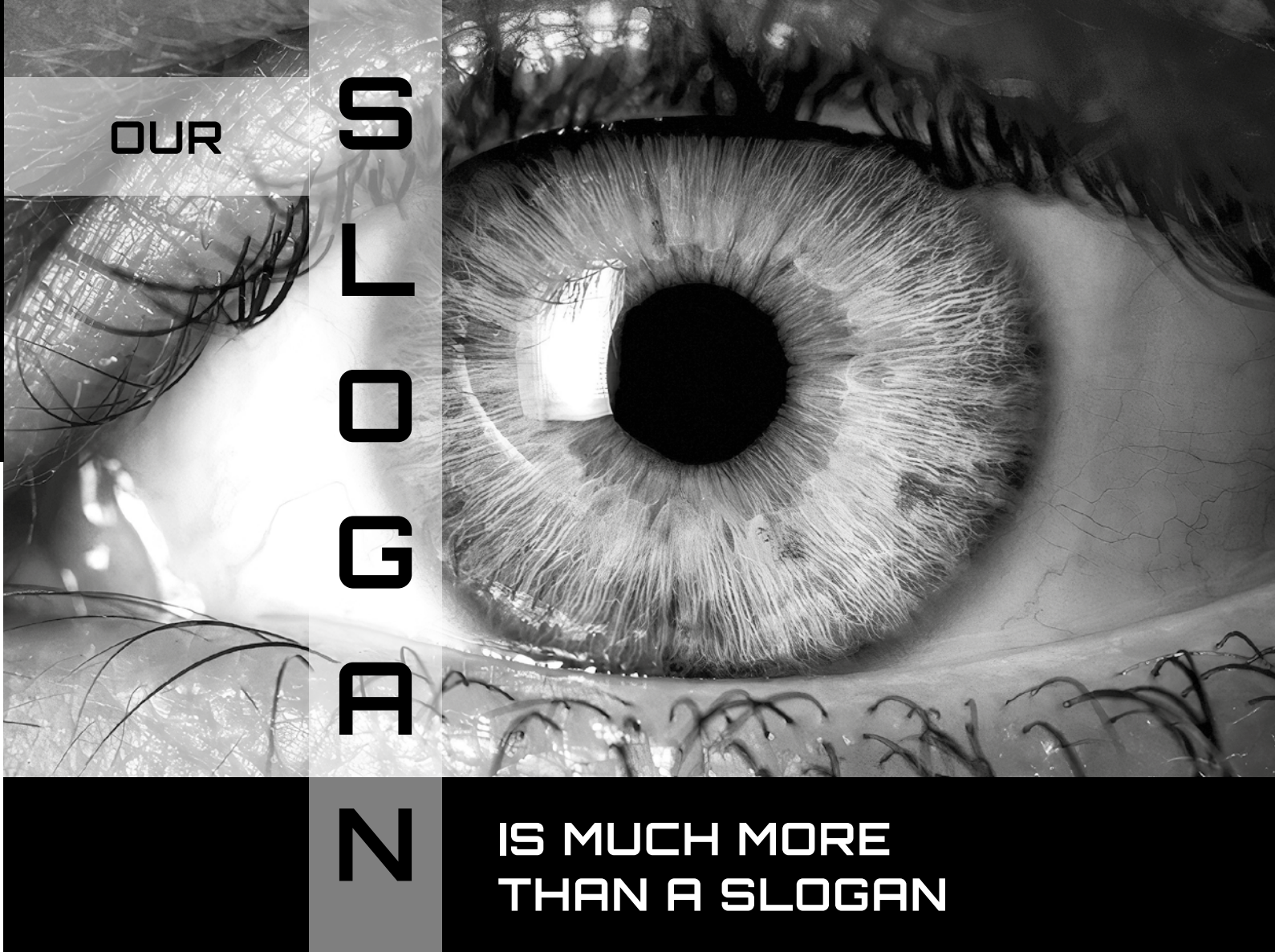
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PRECISION AG

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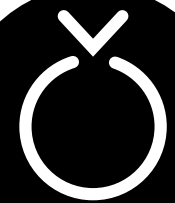


GROW CROPS
DIFFERENTLY

IT REPRESENTS
OUR MISSION

“Supporting agricultural producers to make them more productive”

PREFACE



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**Christian
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FORAGE



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CEREALS



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CCA

SOYBEANS & CORN



PREFACE

Welcome to the 2026-2027 edition of our Seed Guide.

At Synagri, we continue to evolve our product offering while developing new business relationships to ensure a stable and reliable supply chain in the face of climate change.

This year, we have added recommendations from our corn and soybean specialists to assist you in your decision-making. You will also find new comparative tables highlighting the key characteristics of our forage and cereal varieties, making it easier to evaluate your options.

Growing demand for winter seeds is also driving us to expand our product offering. Increasing customer interest, combined with the availability of various government programs, reinforces the importance of staying ahead of emerging opportunities. As it is not possible to include our entire product lineup in this guide, we encourage you to contact your Synagri representative for more information.

Happy reading!

Jocelyn Tousignant, agr.
Seed Manager



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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Learn more at
Yaracanada.ca

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
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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!

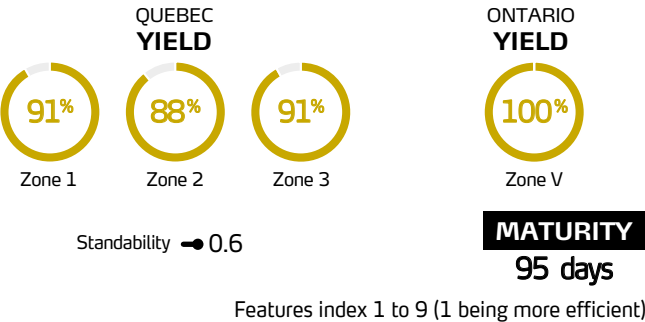
OATS



Mistral... for its whiteness

White oat who have a good resistance of leaf diseases

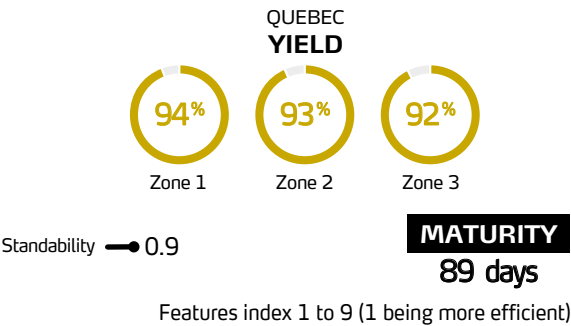
Recommended seeding rates: 425 to 400 seeds/m² (160 to 195 kg/ha)



Synextra... the protein pro

Specific weight superior, solid and tall straw

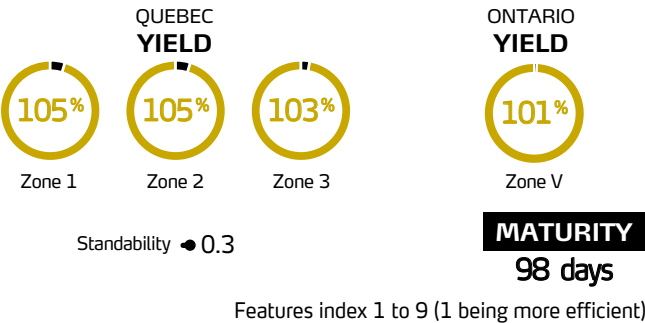
Recommended seeding rates: 425 to 400 seeds/m² (135 to 165 kg/ha)



AAC Loki... yield superior

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

Recommended seeding rates: 350 to 425 seeds/m² (155 to 190 kg/ha)



Oat Varieties Comparison			
Variety	AAC LOKI	SYNEXTRA	MISTRAL
Key Strength	★ High β-glucan content	★ Robustness and high specific weight	★ White kernel
QC Yield*	●	●	●
Specific Weight (kg/hL)	●	●	●
% Hull	●	●	●
Lodging	●	●	●
Maturity (days)	●	●	●
Recommended Management	Intensive (high potential, human food)	Intermediate to intensive (grain quality)	Conventional (specialized markets)
Conventional Seeding (kg/ha)	155	155	160
Intensive Seeding (kg/ha)	190	190	195



WHEAT



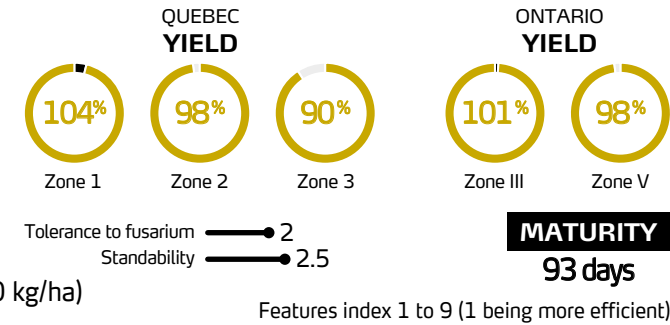
AAC Synox... superior quality

- 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/m² (170 to 190 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.



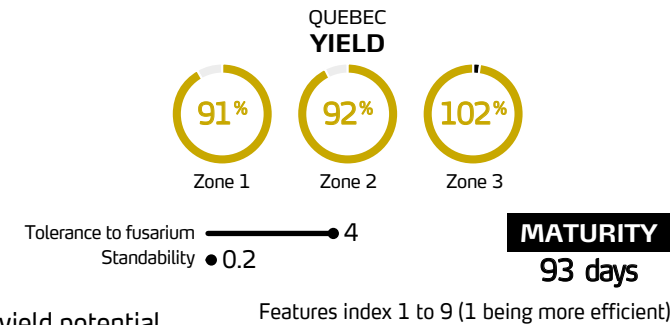
RGT Presidio... guaranteed yield

- 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/m² (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.

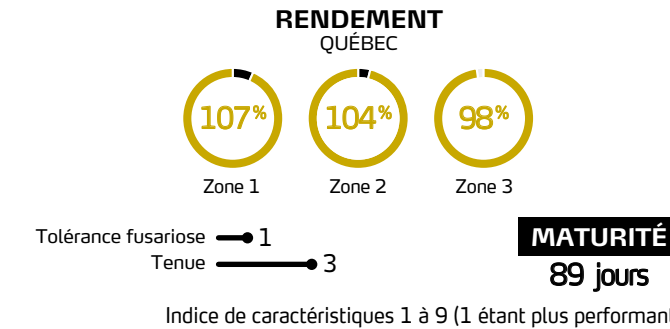


AAC ATEA... rendement et hâiveté

- Blé de provende (fourrager)
- Pour utilisation en mélange ou en pur
- Rendement et tolérance à la fusariose excellent

Blé de printemps rouge destiné au marché panifiable de l'Est du Canada. Développé par Agriculture et Agroalimentaire Canada, il a été sélectionné pour combiner rendement, qualité meunière et résistance aux maladies, particulièrement à la fusariose de l'épi.

Taux de semis recommandé: 425 à 500 grains/m². (170 à 200 kg/ha)



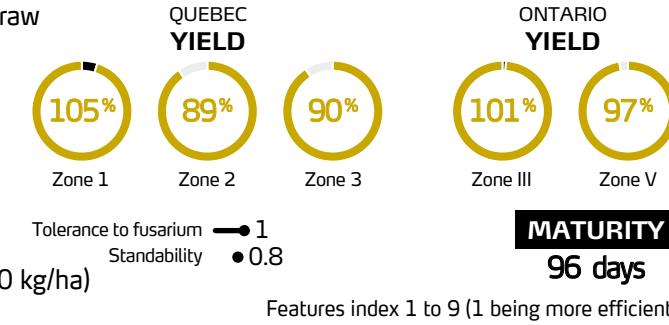
Major... high tolerance to Fusarium

- 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:

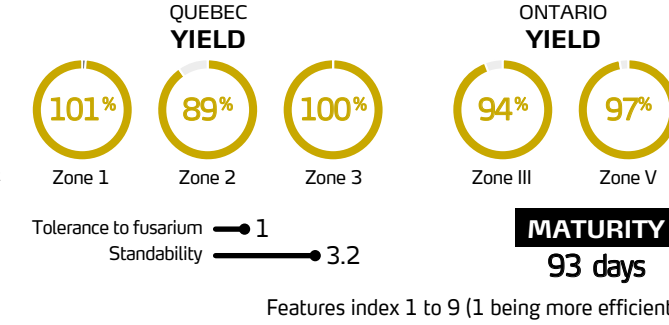
- Seeding rates 495 to 575 seeds/m² (200 to 240 kg/ha)
- Nitrogen dose: 125 to 150 kg/ha
- Fungicide: T1: If needed
T2: If needed
T3: If needed
- Growth regulator: Recommended in conditions where there is a risk of lodging



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/m² (175 to 195 kg/ha)



Wheat Varieties Comparison						
Variety	AAC ATEA	AAC SYNOX	AUDIKA	MAJOR	RGT PRESIDIO	SIRLAURIER
Major Asset	★ To discover	★ Very high protein content	★ Yield-quality balance	★ Versatility and fusarium tolerance	★ Intensive management	★ Straw volume
Market	Breadmaking (CERHS)	Breadmaking (CERHS)	Breadmaking (CERHS)	Breadmaking (CERHS)	Breadmaking (CERHS)	Forage
QC Yield*	●	●	●	●	●	●
Specific Weight	●	●	●	●	●	●
Fusarium Head Blight**	●	●	●	●	●	●
Lodging	●	●	●	●	●	●
Maturity (day)	●	●	●	●	●	●
Straw	●	●	●	●	●	●
Recommended Management	Intensive	Quality/proteins	Versatile	All management types	Intensive only	Forage/biomass
Conv. Seeding (kg/ha)	170	170	175	200	145	190
Intensive Seeding (kg/ha)	200	190	195	240	170	245



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 CALONIUM
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

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.



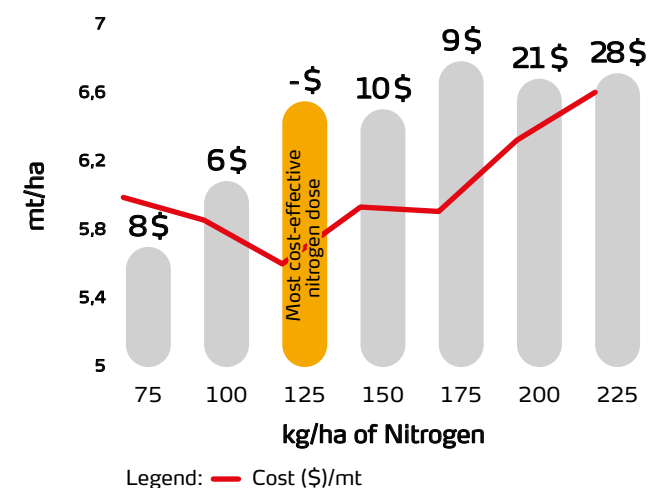
NITROGEN IN WHEAT

RESULTS

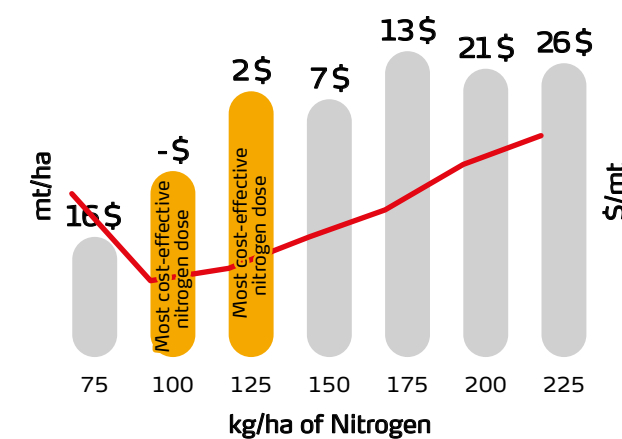
YaraBela® AXAN 27-0-0-3.75 (S)

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.



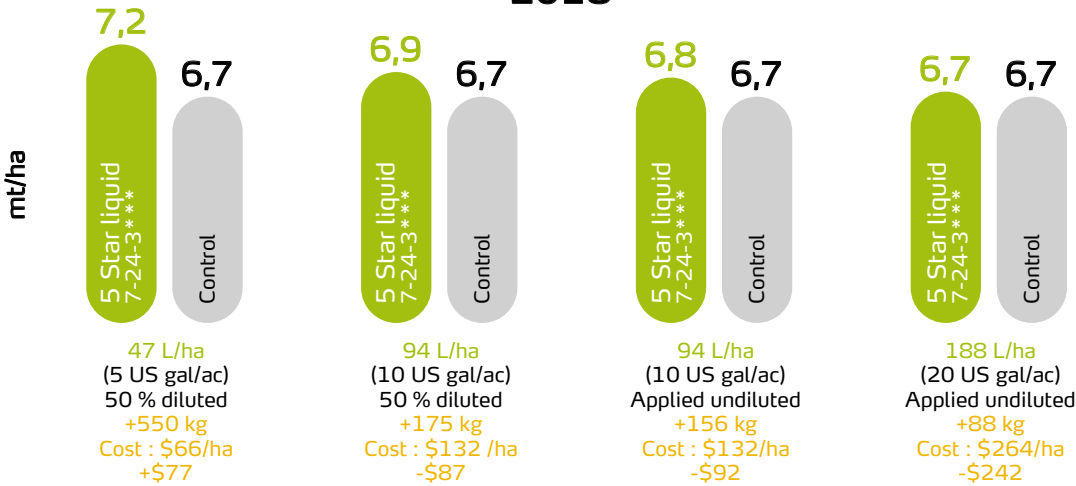
The primary goal of a liquid starter fertilizer, such as the 7-24-3 (5*), is to promote early plant growth and facilitate rapid root establishment. The effectiveness of a starter fertilizer lies in its ability to provide readily available phosphorus and facilitate quick absorption by the plant.



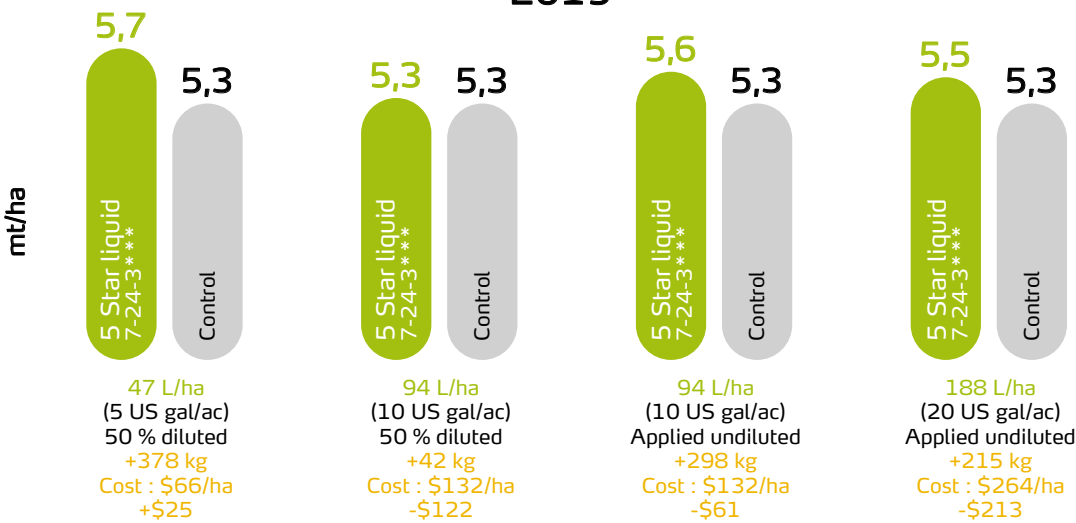
LIQUID
STARTER
IN WHEAT

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





GROWER
REWARDS
ELIGIBLE

OPTIMIZE NUTRIENT UPTAKE. MAXIMIZE POTATO POTENTIAL.

HELP POTATOES DELIVER UNDER PRESSURE.

Promote improved uptake and use of essential nutrients at key stages of plant development with Ohm™ biostimulant from UPL Corp. This highly concentrated, high-quality seaweed extract helps plants thrive by supporting stronger roots, improved plant architecture and greater crop vigour. It also helps plants better tolerate environmental stress and enhances water and nutrient absorption through improved root development. With a low use rate and excellent tank-mix compatibility, it's a simple addition to your potato management program.



Protect your potatoes with Ohm™ biostimulant today.



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OWN THE ACRES OWN THE ACRES OWN THE ACRES OWN THE ACRES OWN THE ACRES OWN THE ACRES OWN THE ACRES OWN THE ACRES



In soybeans, you're as good as the company you keep.

Start clean, stay clean and finish strong with Nufarm.

Achieve more with a portfolio of superior pre-emergent weed control products designed to help you get the most out of your soybeans. Nufarm has the solutions you need, whether you're adding to glyphosate, managing resistance or looking for the right combination to tackle the toughest weeds. Because like you, we're all in for higher performance, improved yields and a better bottom line.

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Grow a better tomorrow

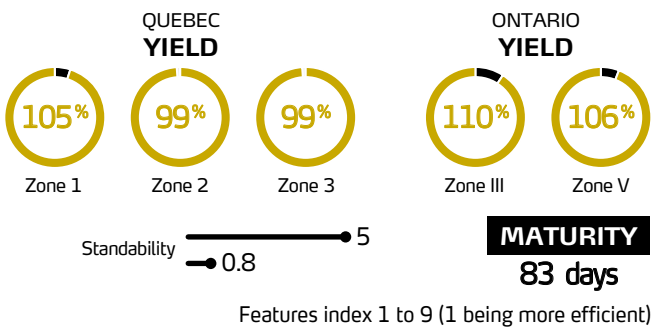
BARLEY



Waterloo... best yield in its category

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

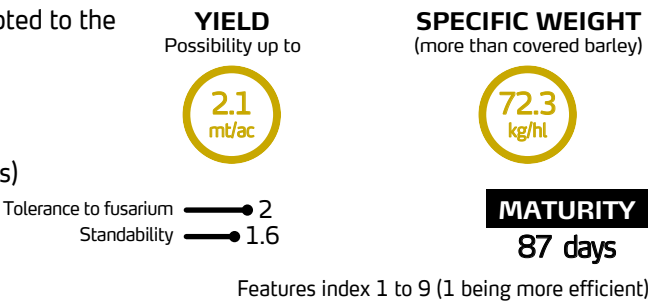
- Long and solid straw
- Specific weight around 68 kg/hL



Recommended seeding rates : 375 to 440 seeds/m² (180 to 210 kg/ha)

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/m² (170 to 195 kg/ha)
- Nitrogen dose: 80 to 110 kg/ha
- Fungicide: T1: If needed
T2: If needed
T3: If needed

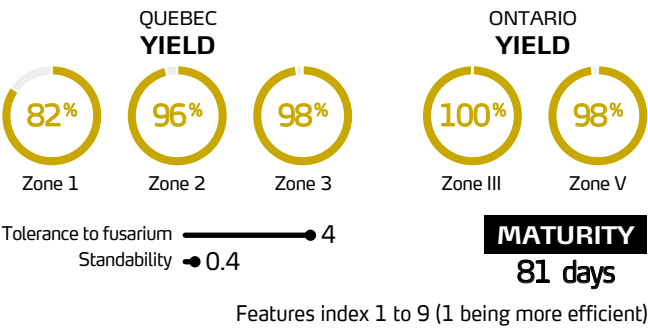
Growth regulator: Recommended

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



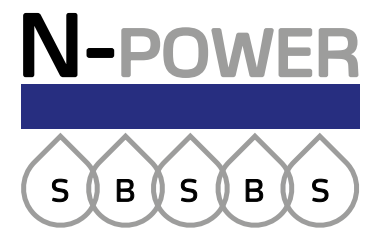
Recommended seeding rates: 375 to 440 seeds/m² (180 to 200 kg/ha)

Barley Varieties Comparison

Variety	WATERLOO	BASTILE	OCEANIK
Type/Market	6-row hulled – Animal feed	6-row naked – Animal feed	6-row hulled – Animal feed
QC Yield *	1	2	3
Specific Weight (kg/hL)	●	●	●
Fusarium Head Blight **	●	●	●
Height (cm)	●	●	●
Lodging	●	●	●
Maturity TKW (g)	●	●	●
Recommended Management	●	●	●
Conv. Seeding (kg/ha)	Versatile to intensive	Conventional	Simple management / early harvest
Intensive Seeding (kg/ha)	175	185	170
Semis intensif (kg/ha)	205	220	200

* Average for Quebec zones 1, 2, and 3.

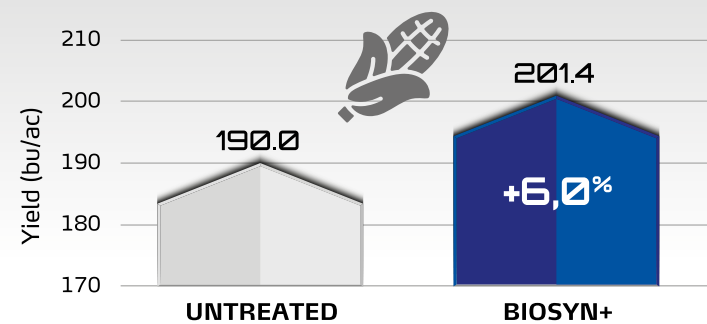
** Fusarium Head Blight: 1 = best tolerance, 9 = most susceptible.



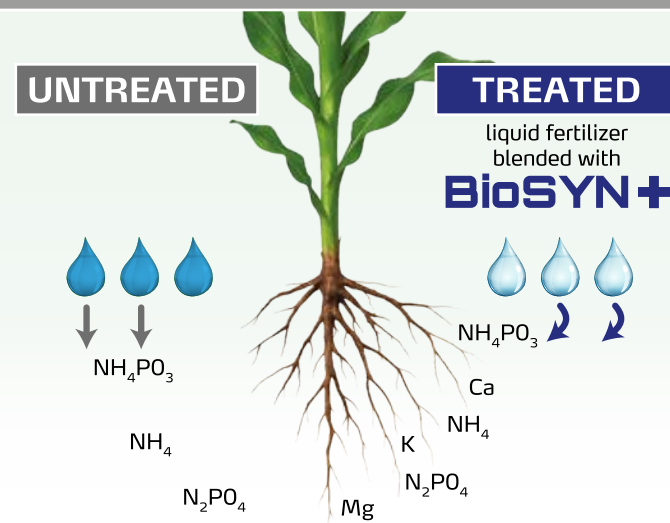
BioSYN+

FORMULATED WITH BACTERIAL STRAINS
THAT PROMOTE PLANT GROWTH

THE TECHNOLOGY THAT MAKES BIOSTIMULANT
AVAILABLE TO EVERY PLANT



Ease of application –
no special storage conditions



BioSYN+ improves

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



Raxil PRO

HAVE A BREAK THROUGH SEASON

As a farmer, you face many challenges throughout the growing season. Protecting your seed's potential from the start means your crops can emerge healthier and stronger. That's why more growers trust Raxil[®] PRO, the #1 selling cereal seed treatment brand for over ten years running¹. When your seeds emerge stronger, so do you.

• EMERGE STRONGER •

Emergestronger.ca | 1 888-283-6847 | @Bayer4CropsCA

¹2022 BPI Report – Cereal Seed Treatments
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Increase your average yields in corn
with BioSYN+ biostimulant

↑ 6.0% or 11.4 bu/ac ↑

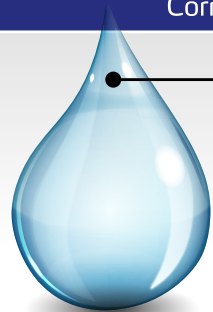
Increase your net income*
(based on a corn price of \$5.85/bu)

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

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

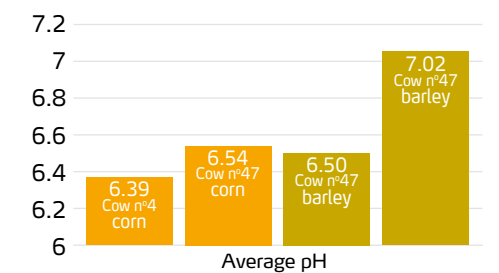
Purchase price of ground corn (\$/t)	Purchase price of ground hulless barley		
	\$275	\$250	\$225
\$255	\$138	\$169	\$200
\$265	\$169	\$181	\$213
\$275	\$200	\$194	\$225
\$285	\$150	\$206	\$238
Savings between \$6,900 and \$11,900 per year for a herd of 50 cows			

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

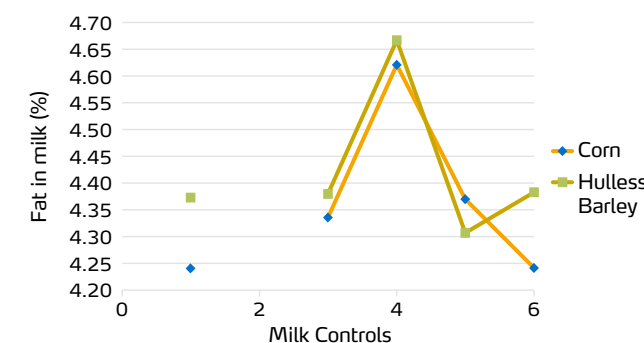
Zootechnical Results

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

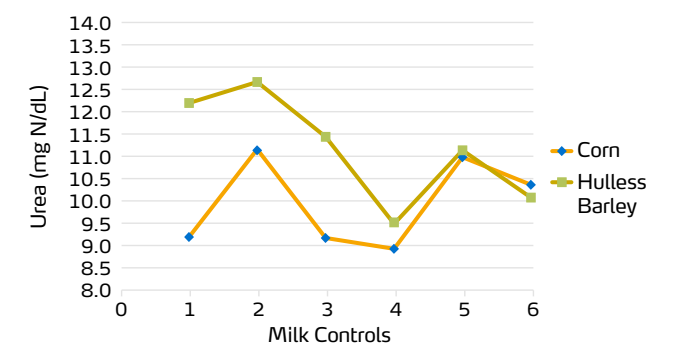
Average Ruminal pH Values of Four Sentinel Cows



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.



WINTER CEREALS

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, 97% average for 3 years**
- Good quantity of straw with excellent resistance to lodging

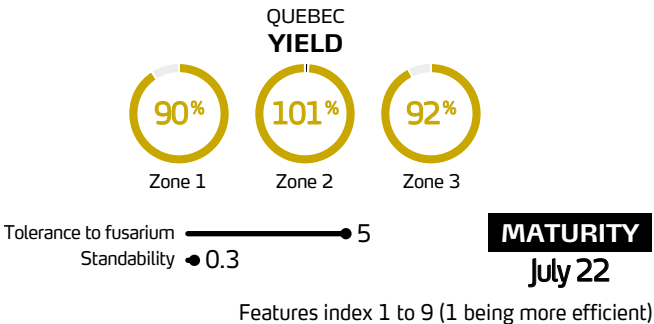
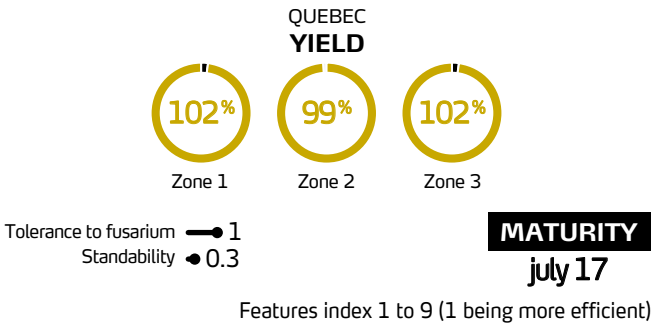
Recommended seeding rates: 500 to 550 seeds/m² (200 to 220 kg/ha)



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/m² (190 to 210kg/ha)



Crop management recommendations

Seeding Periods in Quebec (Hardiness Zones 2-5))

Region

Southern Quebec (Montérégie, Estrie, Outaouais)
 Centre-du-Québec, Chaudière-Appalaches
 Capitale-Nationale, Bas-Saint-Laurent
 Saguenay–Lac-Saint-Jean, Côte-Nord

Optimal Seeding Dates (Winter Wheat)

September 10–25
 September 5–30
 September 20 – October 5
 Seeding often too risky, evaluate case-by-case

Variety	CARNAVAL	PRO 81
Major Asset	★ Excellent winter survival	★ —
Type / Market	Forage (feed)	Breadmaking (CEHRW)
% Winter Survival	●	●
Specific Weight (kg/hL)	●	●
Lodging	●	●
Maturity	●	●
Fusarium Head Blight* *	●	●
TKW (g)	37,1	34,5
Recommended Management	Safe / forage	Quality / breadmaking
Conv. Seeding (kg/ha)	215	200
Intensive Seeding (kg/ha)	240	220

* Average for Quebec zones 1, 2, and 3.
 ** Fusarium Head Blight: 1 = best tolerance, 9 = most susceptible.

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



SYNAGRI CEREAL SEED MIXTURE

Possibility of making **special mixtures**, with the proportions and components of your choice, according to stock availability.

*A minimum number of bags is required.

Our exclusive mixtures are designed to harmonize:

- maturity,
- straw length,
- lodging tolerance and nutritional balance.

Mixture	Composition ¹	Seeding Rate	Main Key Strength	Ideal Use
SEM 610	60% wheat 40% oats	140 kg/ha	Energy + fiber	Less fertile soils
SEM 530	50% wheat 25% oats 25% naked oats	135 kg/ha	Broad adaptation	Diverse soil types
SEM 520	50% wheat 25% oats 25% barley	135 kg/ha	High yield	Grain or feed
SEM 350	35% wheat 35% peas 30% oats	165 kg/ha	Higher protein	Animal feed
SEM 250	25% wheat 25% oats 25% barley 25% peas	165 kg/ha	Highly balanced mix	Complete feed base
SEM 400	40% forage wheat 40% forage peas 20% forage oats	130 kg/ha	Peas improve protein content, oats provide volume and energy	Emergency forage, forage crop establishment
SEM 500	50% forage oats 50% forage peas	120 kg/ha	Highly competitive against weeds, high % of crude protein	Silage, forage crop establishment

(1) Subject to variety availability
 Wheat: Sirlaurier
 Barley: Waterloo
 Oats: Mistral
 Peas: CDC Canary or Hickie

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, nutrients and light. There are more advantages in growing mixtures in an uncertain farming environment.



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	

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.

kg/ha = (g/1000 seeds) × (seeds/m²)/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

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 (1st row).



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* Source: Stratus Ag Research (2024)
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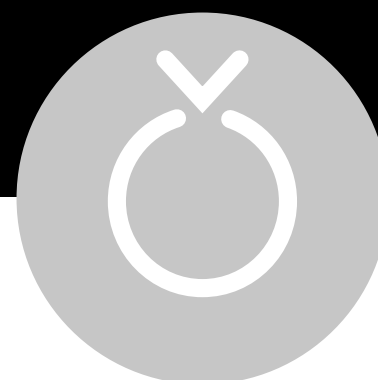
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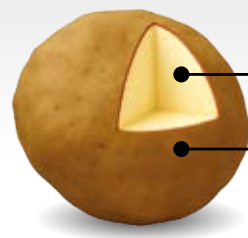
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Fertilizer granule
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BioSYN+
It is mixed with our
superior quality
liquid fertilizers

BioSYN+

THE BENEFITS OF HUMIC
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THE TECHNOLOGY THAT MAKES BIOSTIMULANT
AVAILABLE TO EVERY PLANT

**Increase your average yields
in corn with Biosyn+**



↑ **4.9%** or **9.3 bu/ac** ↑

Increase your net income*
(based on a corn price of \$6.20/bu)

50\$/ac

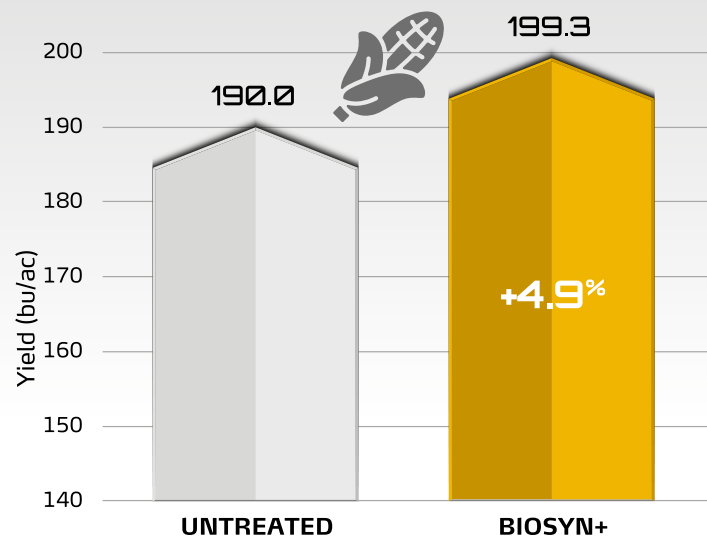
*Including the cost of the product

Example for a farm with 250 ac in corn

Initial yield	190 bu/ac
Yield with Biosyn+	190 + 4.9% = 199.3 bu/ac
Additional yield	9.3 bu X 250 ac = 2 325 bu
Additional gross income	2 325 bu X \$6.20/bu = \$14 415
Additional net income	\$12 645

**GUARANTEE UNIFORM
DISTRIBUTION AND COVERAGE**

A biostimulant that coats
the fertilizer and increases nutrient absorption



Corn yields obtained from field trials

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



Compatible and tested locally

Highly compatible with other fertilizer
coating products, including
micronutrients.

Tested for three years in the climatic
conditions of our regions.

BioSYN+

A PROVEN FORMULATION, TESTED UNDER
OUR CONDITIONS FOR THREE YEARS

**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)

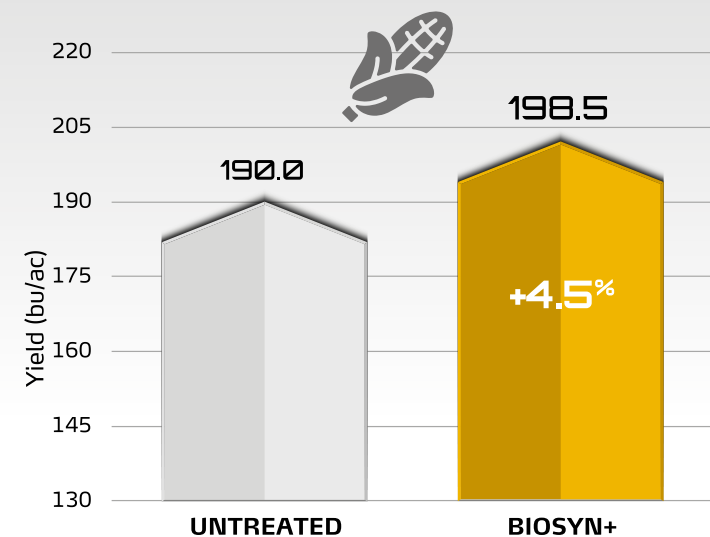
56\$/ac

*Including the cost of the product

Example for a farm with 250 ac in corn

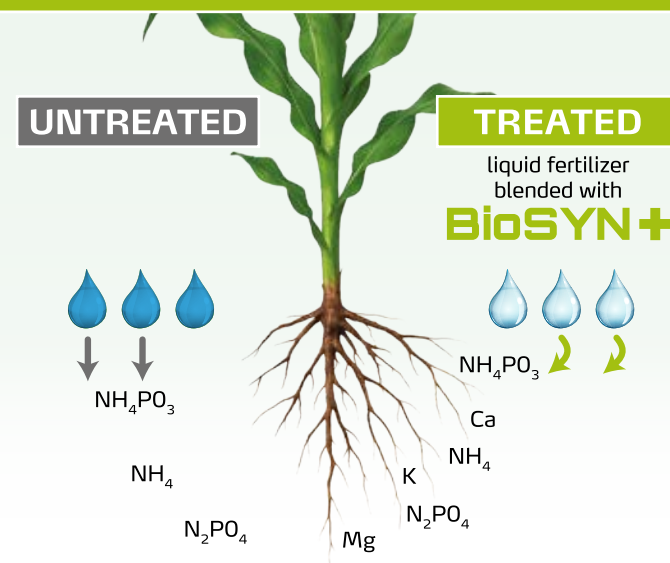
Initial yield	190 bu/ac
Yield with Biosyn+	190 + 4.5% = 198.5 bu/ac
Additional yield	8.5 bu X 250 ac = 2125 bu
Additional gross income	2125 bu X \$6.20/bu = \$13 175
Additional net income	\$10 675

**GUARANTEE UNIFORM
DISTRIBUTION AND COVERAGE**



Corn yields obtained from field trials

Ease of application –
no special storage conditions



BioSYN+ improves

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

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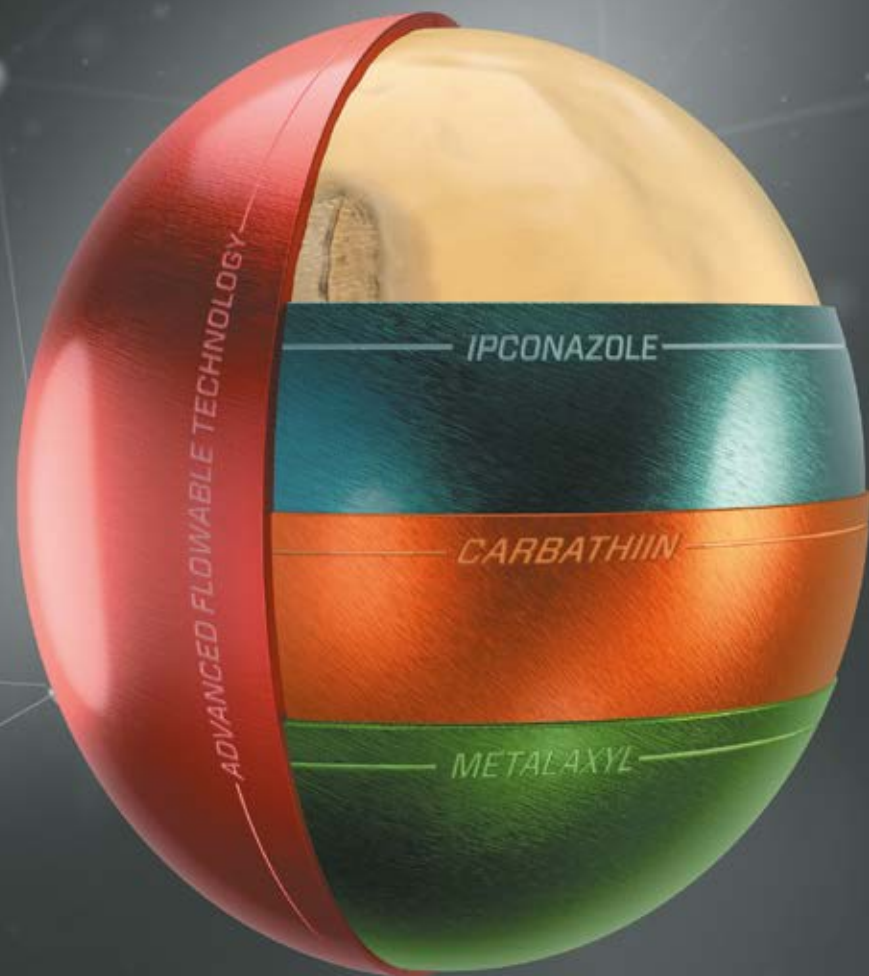
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It's guaranteed!*

* The manufacturer will guarantee a minimum yield increase equal in value to the input cost of the purchased CropBooster® OP. See the CropBooster® OP guaranteed performance program for details.

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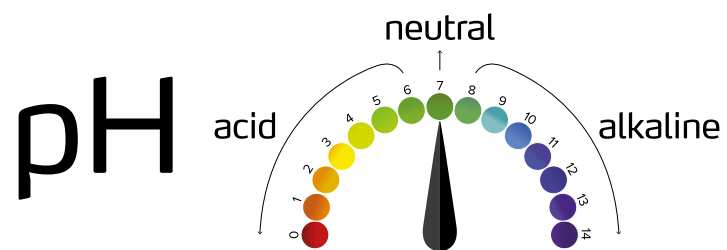
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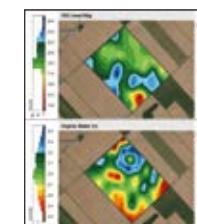
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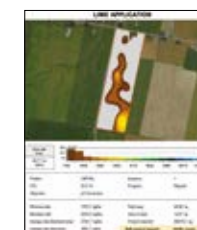
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A comprehensive, easy-to-understand soil analysis report.



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