



SEEDS GUIDE

2026-2027

SEEDS. SOLUTIONS.
FOR PROFITABLE AND SUSTAINABLE PERFORMANCE.



FORAGE

Forage Mixtures
Cover Crops
Intercrops Mixes
Riparian Mix
Conservation Products



CEREALS

Oat Varieties
Wheat Varieties
Barley Varieties
Winter Cereals
Cereals Mixtures



SOYBEANS & CORN

Soybean Varieties
Grain Corn Hybrids
Silage Corn Hybrids
Inoculants and Treatments
Agronomic Solutions





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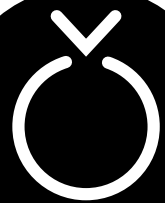
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PREFACE



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CEREALS



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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

OUR

S
L
O
G
A
N

IS MUCH MORE
THAN A SLOGAN

**GROW CROPS
DIFFERENTLY**

IT REPRESENTS
OUR MISSION

"Supporting agricultural producers to make them more productive"

OUR PARTNERS





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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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.



FORAGE



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Synagri offers conventional forage seed, pre-inoculated (exclusive legumes) and untreated. They can therefore be used by organic growers too.

They are selected for their persistence, winter survival and disease resistance. They are also harvested and analyzed to determine their nutritional profile (ADF, NDFD, NEL, protein, etc.) and digestibility. And with these results, we can select the best varieties to meet growers' current needs.

These characteristics make our Synagri seeds a high-performance product much appreciated by our growers.

Don't forget that we also offer the full range of conservation products associated with dry hay (**PROTECT-FOIN PLUS, TOP-SIL**), haylage (**SILOSOLVE, MOLD-ZAP, BIO-PLUS, MAGNIVA O and MAGNIVA SILVER**), corn silage (**BIO-PLUS, TOP-SIL, MAGNIVA O and MAGNIVA Silver**) and for total mixed rations (**MOLD-ZAP**).

CULTIVARS



STELLAR III Alfalfa... superior yield and quality

- Mid to early maturity
- Multifoliate at 55%
- Superb regrowth maximizes total seasonal yield and quality
- Very fast recovery
- Excellent persistence, winterhardiness and disease resistance package

Fall Dormancy



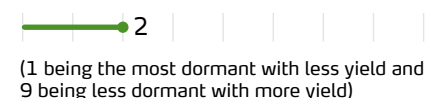
Winter Hardiness



AAC TRUEMAN Alfalfa... excels in wet soil

- Excellent performance in poor drained soils
- Increased drought tolerance
- Creeping root growth habit
- Dual-purpose Alfalfa that is well suited for both hay and haylage production
- Fast recovery after harvest
- A dark green fine stemmed variety
- Excellent persistence and winter hardiness ratings

Fall Dormancy



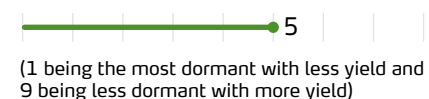
Winter Hardiness



DOMINATOR II Alfalfa... for intensive harvest management

- Very fast recovery and accelerated growth for frequent harvest schedules
- Quick canopy closure naturally suppresses weed competition and conserves soil moisture for crop growth
- Excellent persistence, winterhardiness and disease resistance package
- Multifoliate at 60%

Fall Dormancy



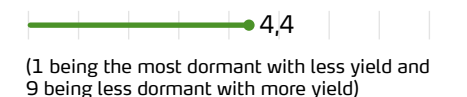
Winter Hardiness



WL 344HQ Alfalfa... for its winning qualities

- Multifoliate at 85%
- Early maturing
- Superior digestibility and excellent feed value
- Very efficient in heavy soil
- Excellent forage yield
- Very good winter hardiness
- Highly resistant to root rot (aphanomyces races 1, 2 and 3)

Fall Dormancy



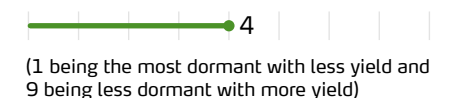
Winter Hardiness



UPSURGE HG Alfalfa... highly digestible

- Non-genetically modified alfalfa with reduction in total lignin
- Improves animal feed intake by 5–10%
- Multifoliate at 65%
- Excellent persistence
- High leaf/stem ratio produces 3–5% more protein
- Allows greater harvest flexibility
- Can generate an additional milk production of 1 kg of milk per cow per day

Fall Dormancy



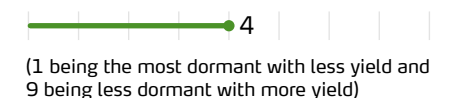
Winter Hardiness



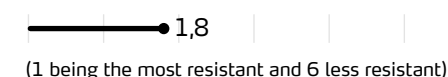
CALIBER alfalfa... all-rounder

- Branched-root alfalfa
- Multifoliate at 50%
- High forage yield in moist or well-drained soil conditions.
- Excellent disease resistance.
- Easily adapts to different growing conditions.

Fall Dormancy



Winter Hardiness



Comparison table of alfalfa’s characteristics

Variety	Major strength	Yield	Fall dormancy	Disease resistance
STELLAR III	High yield	  	   4.0	    HR
AAC TRUEMAN	Branched roots		    2.0	   R
DOMINATOR II	Very high yield	   	 5.0	    HR
WL344 HQ	Digestibility and balanced	 	  4.4	    HR
NEW UPSURGE HG	Highly digestible	 	   4.0	    HR
CALIBER	Branched roots	 	   4.0	    HR

Winter survival	Regrowth	Positioning
 1.5		High yield in conventional management
 1.5		2 cuts in variable soil
 1.8		Very high yield in intensive management
 1.7		Stability
 1.5		Forage quality
 1.8		3-4 cuts in variable soil

Icon legend

-  Excellent
  Fall dormancy
-  Very good
  Yield
-  Good
  Disease resistance

Recommendations based on the objective

Objective	Recommended variety
To maximises the performance	Dominator II & Stellar III
For intensive management	Dominator II
Looking for protein	WL344 HQ & Upsurge HG
Stability in variable and wet soils	Caliber & AAC Trueman
To maximises the digestibility	Upsurge HG
Balance between yield and quality	WL344 HQ

-  **Yield potential**
 - Very high: Dominator II, Stellar III
 - High: WL344 HQ, Upsurge HG
 - Good in wet soil: Caliber, AAC Trueman

-  **Disease resistance**
 - Very good: Stellar III, AAC Trueman, Upsurge HG
 - Good: Dominator II, WL344 HQ, Caliber

-  **Winter survival**
 - Very good: Stellar III, AAC Trueman, Upsurge HG
 - Good: Dominator II, WL344 HQ, Caliber

-  **Fall dormancy**
 - 5 cuts: Dominator II
 - 3-4 cuts: Stellar III, Upsurge HG, WL344 HQ, Caliber
 - 2 cuts: AAC Trueman



LESTRIS DOUBLE CUT RED CLOVER... unbeatable

- Selected for its excellent winter resistance and forage yield
- Quick to establish
- High ratio leaf/stem
- Mid to early maturity
- A multi-cut (up to 3 cuts a year)
- Exceptional longevity (up to 3-4 years) due to its disease resistance



CDC TIZNOW Timothy... high leaf-stem ratio

- Semi-late maturity
- Fast regrowth
- Excellent persistence
- Fast growth
- Tolerance to cold
- Very high yield variety

DAWN Timothy... excellent regrowth

- Early maturity
- Excellent regrowth
- Very leafy
- Excellent disease resistance
- Excellent as dry hay for horses
- Excellent mixed with alfalfa, clover or orchardgrass



CDC TORSION MEADOW BROMEGRASS... high yield

- This meadow brome grass is ideal for hay production or grazing
- CDC Torsion has excellent persistence
- Excellent winter survival
- Very fast spring vigor
- 6% higher yield than Fleet

PEAK Smooth Brome grass... better than candy

- Highest performing in our climatic zones
- Higher yield in hay
- Superior regrowth
- May have a longevity of more than five years
- Its abundant leafiness produces quality hay with high nutritional value, highly appetizing and better digestibility
- It can easily tolerate 3 cuts and a cut of 10 cm in height improves its persistence
- Heads 3-5 days before the earliest Timothy

DIVIDEND VL Orchardgrass... unequalled maturity

- The latest maturing orchardgrass on the market
- This later maturing makes it easier to synchronize with the harvesting of other species
- Good potential yield in combination with alfalfa
- The first signs of maturity show up only in the second week of June
- Its maturity is a great advantage over all other orchardgrasses
- Very slow progression and maturity which lengthen the harvesting period

MAHULENA Festulolium... yield and persistence

- A cross between perennial ryegrass and tall fescue
- A top-yielding variety
- **Robust**
- **Very persistent**
- Very good resistance to drought

DAUPHINE Tall Fescue... extremely sort

- **Extremely soft leaves**
- Better palatability and digestibility than other tall fescues
- Remarkable drought tolerance and persistence

TETRAX Meadow Fescue... incredible digestibility

- Tetraploid (higher digestibility)
- **Very soft leaves**
- Palatability higher than other meadow fescues
- **Very persistent grass**

MELQUATRO Biennial Ryegrass... very high yield

- **Italian tetraploid type, does not mature the year it is seeded**
- **Very high yield**
- Excellent spring vigor
- Superior growth
- **Produces a high-quality forage**
- Excellent intercropping choice

ELUNARIA Annual Ryegrass... try it, and you will love it

- **A tetraploid annual ryegrass of the westerwold type, does mature the year it is seeded**
- A green tall stature plant
- Very good spring vigor
- Mid-late maturity
- **Excellent choice if you want to do some frost seeding or spring reseeding**
- Provide full-season production and a good regrowth capacity

SORAYA PERENNIAL RYEGRASS... fast regrowth

- Tetraploid variety
- Very good yield
- **Exceptionnal forage quality**
- Rust resistant

Comparison Table of Forage Mixes and Cover Crops

Mixes	Yield	Persistence	Positioning	Seeding rate (+20% broadcast)	Seeding date	Seeding cost
SUPERSTAR	★★★★★	★★★★★	3 cuts yield	17 kg/ha	Spring and August	\$\$\$\$\$
DYNAMITE	★★★★★	★★★★	4 cuts yield	17 kg/ha	Spring and August	\$\$\$\$\$
NEW TRILOGY	★★★★	★★★★★	Yield, digestibility, stability	17 kg/ha	Spring and August	\$\$\$\$\$
PRO-ENERGIE	★★★★	★★★★★	Protein and forage quality	17 kg/ha	Spring and August	\$\$\$\$\$
MAXI-MILK	★★★★	★★★	Intensive dairy production	17 kg/ha	Spring and August	\$\$\$\$\$
LACTO PLUS	★★★★	★★★★	Digestibility	17 kg/ha	Spring and August	\$\$\$\$\$
HORIZON	★★★	★★★★★	Harvest security	17 kg/ha	Spring and August	\$\$\$\$
DAIRY	★★★	★★★★★	Stability and performance	17 kg/ha	Spring and August	\$\$\$\$
VARI-SOL	★★★	★★★★★	Uneven or sloping soil	18 kg/ha	Spring and August	\$\$\$\$
DUALFALFA	★★★	★★★★	Longevity	17 kg/ha	Spring and August	\$\$\$\$
ULTRA-HAY	★★	★★★★★	Dry hay for horses	12 kg/ha	Spring and August	\$
BIO-SEM	★★★★	★★★★	Uncertain grounds	16 kg/ha	Spring and August	\$\$\$\$
BIO-MAX	★★★	★★★	Stability	14 kg/ha	Spring and August	\$\$\$
TANDEM	★★★	★★★	Productive	14 kg/ha	Spring and August	\$\$\$
VARYLAND	★★★	★★★★	Fields with variable drainage	15 kg/ha	Spring	\$\$\$\$\$
PASTUR-2000	★★★★	★★★★★	Versatile pasture	20 kg/ha	Spring and August	\$\$\$\$
SUPRA-CUTS	★★★★★	★★★★	Intensive management	8 kg/ha	Spring and beginning of September	\$
EXTRAGRASS +	★★★★	★★★★★	Goes very well with alfalfa or clover	10 kg/ha	Spring and beginning of September	\$
TWO-BROMEGRASS +	★★★	★★★★★	Palatability and forage quality	12 kg/ha	Spring and beginning of September	\$
ME 903	★★★★	★★★★	Energy and yield	10 kg/ha	Spring and beginning of September	\$
BROM-FEST	★★★★	★★★	Palatability and yield	10 kg/ha	Spring and beginning of September	\$
SYN-CO NITROGEN	★★★★	★★★	Optimal nitrogen returns	45-55 Kg/ha	July-August	\$\$\$
SYN-CO BIOMASS	★★★★	★★	Volume and hardiness	63 kg/ha	July-August	\$
SYN-CO STABILITY	★★★	★★	Fast-growing ground cover	85-95 kg/ha	July-August	\$\$\$
SYN-CO LATE	★★★	★★	Late-season growth	54 kg/ha	July to September	\$
SYN-CO BRASSICAS	★★★★	★★★★	Fast-growing	8 kg/ha	July to September	\$
SYN-CO INTER 1	★★★	★★	Structure and nitrogen input	20 kg/ha	June-July (5-6 corn leaves)	\$\$\$
SYN-CO INTER 2	★★★★	★★	Bearing Capacity and soil structure	20 kg/ha	June-July (5-6 corn leaves)	\$
SYN-CO RIPARIAN	★★★★	★★★★★	Erosion control and biodiversity	40 kg/ha	Spring or before mid-august	\$\$\$

SIMPLE ALFALFA MIXTURES



SUPERSTAR Mixture

Recommended seeding rate: 17 kg/ha

STELLAR III	Alfalfa	50%
UPSURGE HG	Alfalfa	30%
CALIBER	Alfalfa	10%
CDC TIZNOW	Timothy	10%

- The combination of 3 alfalfa brings yield, stability and digestibility to this 3-cut mixture.
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

PRO-ENERGY Mixture

Recommended seeding rate: 17 kg/ha

WL 344HQ	Alfalfa	80%
CDC TIZNOW	Timothy	20%

- The predominance of the highly nutritional alfalfa improves the forage quality of the mixture
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

MAXI-MILK Mixture

Recommended seeding rate: 17 kg/ha

DOMINATOR II	Alfalfa	70%
DAWN	Timothy	30%

- For dairy producers who follow an intensive management program
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

DAIRY Mixture

Recommended seeding rate: 17 kg/ha

WL 344HQ	Alfalfa	60%
CDC TIZNOW	Timothy	40%

- The predominance of the highly nutritional alfalfa improves the protein content of the mixture
- A balanced and performing mixture
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

VARI-SOIL Mixture

Recommended seeding rate: 17 kg/ha

AAC TRUEMAN	Alfalfa	40%
WL 344HQ	Alfalfa	20%
CDC TIZNOW	Timothy	40%

- Does well in various, sloping or rocky lands
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

DYNAMITE Mixture

Recommended seeding rate 17 kg/ha

DOMINATOR	Alfalfa	45%
UPSURGE HG	Alfalfa	40%
DAWN	Timothy	15%

- This 4-cut mix is ideal for growers who use corn silage.
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

TRILOGY Mixture

Recommended seeding rate: 17 kg/ha

STELLAR III	Alfalfa	25%
WL344HQ	Alfalfa	25%
CALIBER	Alfalfa	25%
CDC TIZNOW	Timothy	25%

- A blend who brings yield, digestibility and stability.
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

LACTO-PLUS Mixture

Recommended seeding rate: 17 kg/ha

STELLAR III	Alfalfa	70%
CDC TIZNOW	Timothy	30%

- For a higher digestibility forage
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

HORIZON Mixture

Recommended seeding rate: 17 kg/ha

STELLAR III	Alfalfa	20%
WL344HQ	Alfalfa	20%
CALIBER	Alfalfa	20%
CDC TIZNOW	Timothy	40%

- A blend of 3 alfalfa brings harvest security to this 3-cut mixture.
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

DUALFALFA Mixture

Recommended seeding rate: 17 kg/ha

UPSURGE HG	Alfalfa	25%
WL 344HQ	Alfalfa	25%
CDC TIZNOW	Timothy	50%

- The addition of two alfalfa cultivars combines quality, longevity and yield
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26):
SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

ULTRA-HAY Mixture

Recommended seeding rate: 12 kg/ha

STELLAR III	Alfalfa	20%
CDC TIZNOW	Timothy	80%

- Make an excellent hay for horses and combined with other grasses
- Requires an early spring nitrogen application

COMPLEXE ALFALFA MIXTURES



SIMPLE MIXTURES BIRDSFOOT TREFOIL-CLOVERS

BIO-SEM Mixture

Recommended seeding rate: 16 kg/ha

STELLAR III	Alfalfa	40%
LESTRIS	Red Clover	15%
CDC TIZNOW	Timothy	45%

- The contribution of red clover ensures better establishment of alfalfa in difficult soil conditions
- Reduce to 11 kg/ha if combined with one of these Mixes (see p.26): SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

BIO-MAX Mixture

Recommended seeding rate: 14 kg/ha

LESTRIS	Red Clover	40%
CDC TIZNOW	Timothy	60%

- The timothy performs better in the second year where it accelerates fast drying in the field
- Adapts to all types of soil
- Reduce to 10 kg/ha if combined with one of these Mixes (see p.26): SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

TANDEM Mixture

Recommended seeding rate: 14 kg/ha

LESTRIS	Red Clover	50%
CDC TIZNOW	Timothy	50%

- Highly productive and easy to establish
- Reduce to 10 kg/ha if combined with one of these Mixes (see p.26): SUPRA-CUT, EXTRAGRASS +, TWO-BROMEGRASS +, ME 903 or BROM-FEST

VARYLAND Mixture

Recommended seeding rate: 15 kg/ha

STELLAR III	Alfalfa	40%
LEO	Birdsfoot Trefoil	25%
CDC TIZNOW	Timothy	35%

- Recommended for rolling landscape with variable drainage
- Combination of alfalfa and birdsfoot trefoil results in longer productivity



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Herbicide

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COMPLEXES MIXTURES: CLOVERS OR GRASSES

SUPRA-CUT Mixture

Recommended seeding rate with a cover crop: 8 kg/ha and 26 kg/ha alone

SOYARA	Perennial Ryegrass	34%
DAUPHINE	Tall Fescue	17%
TETRAX	Meadow Fescue	16%
DIVIDEND VL	Orchardgrass	33%

- Best suited for an intensive management
- For an exceptional yield cut after cut

EXTRAGRASS+ Mixture

Recommended seeding rate with a cover crop: 10 kg/ha and 32 kg/ha alone

PEAK	Smooth Brome grass	15%
CDC TORSION	Meadow Brome grass	35%
DAUPHINE	Tall Fescue	18%
TETRAX	Meadow Fescue	17%
ELUNARIA	Annual ryegrass	15%

- A mid-season grass mixture which can be grown with a mixture of alfalfa or red clover

TWO-BROMEGRASS + Mixture

Recommended seeding rate with a cover crop: 12 kg/ha and 20 kg/ha alone

PEAK	Smooth Brome grass	40%
CDC TORSION	Meadow Brome grass	60%

- A mixture of a two-brome variety combining yield, quality and palatability
- Smooth brome grass is erected and meadow brome grass is leafy with abundant growth

ME 903 Mixture

Recommended seeding rate with a cover crop: 10 kg/ha and 28 kg/ha alone

PEAK	Smooth Brome grass	35%
CDC TORSION	Meadow Brome grass	35%
DAUPHINE	Tall Fescue	15%
TETRAX	Meadow Fescue	15%

- A mid-season grass mixture which can be grown with a mixture of alfalfa or red clover

BROM-FEST Mixture

Recommended seeding rate with a cover crop: 10 kg/ha and 28 kg/ha alone

PEAK	Smooth Brome grass	35%
CDC TORSION	Meadow Brome grass	35%
MAHULENA	Festulolium	30%

- A mid-season grass mixture which can be grown with a mixture of alfalfa or red clover

PASTUR-2000 Mixture

Recommended seeding rate: 20 kg/ha

Clovers and Timothy: 10 kg/ha Brome grass and ryegrass (separately): 10 kg/ha

LESTRIS	Red Clover	10%
BOMBUS LADINO	White Clover	20%
DAWN	Timothy	20%
CDC TORSION	Meadow Brome grass	35%
TETRAX	Meadow fescue	15%

- A very productive and general-purpose pasture mixture for intensive management
- Very palatable for all types of livestock

		Number of seeds	Pure stand		in association	
		kg	kg/ha	lb/acre	kg/ha	lb/acre
SEEDING RATES	EXTRAGRASS +		32	28	10	9
	TWO-BROMEGRASS +		20	18	12	9
	ME 903		28	25	10	9
	BROM-FEST		28	25	10	9
	REED CANARYGRASS	1,200,000	12	10	4-9	3-8
	MEADOW BROMEGRASS	175,000	13	11	5-10	4-9
	SMOOTH BROMEGRASS	300,000	18	16	5-10	4-9
	ORCHARDGRASS	1,450,000	11	10	3-5	3-4
	FESTULOLIUM	250,000	20	16	3-5	3-4
	MEADOW FESCUE	500,000	16	14	6-8	5-7
	TALL FESCUE	500 000	16	14	3-5	3-4
	CREEPING RED FESCUE	1,350,000	0	0	3-6	2-5
	TIMOTHY	2,500,000	10	9	5-7	4-6
	SUDANGRASS	132,000	35-40	31-36	10-15	8-13
	BIRDSFOOT TREFOIL	815,000	10	9	2-7	2-6
	ALFALFA	500,000	14	12	6-10	5-9
	MIXTURE DITCHES AND SLOPES		50	45		
	JAPANESE MILLET	340,000	20	18	8-10	7-9
	PEARL MILLET	155,000	15	13	6-8	5-7
	MUSTARD	220,000	12	10		
	SWICTHGRASS	570,000	10	9		
	KENTUCKY BLUEGRASS	4,800,000	150	133	3-20	2-18
	PHACELIA	517,000	12	10		
	4010 FORAGE PEA	5,000	100	90		
	FORAGE RADISH	88,000	15	13		
	OILSEED RADISH	88,000	15	13		
	ANNUAL OR PERENNIAL DIPLOID RYEGRASS	500,000	20	18	3-5	3-4
	ANNUAL OR PERENNIAL TRIPLOID RYEGRASS	250,000	35	31	3-5	3-4
	INTERCROP ANNUAL RYEGRASS		15	13		
	BUCKWHEAT	33,000	90	80		
	FALL RYE		132	118		
	SORGHUM OR BMR SORGHUM	75,000	35	31	10-15	9-13
	WHITE CLOVER (Ladino, Dutch or Huia)	1,750,000			1-2	1-2
	BERSEEM CLOVER	360,000	14	12	5	4
	BLOSSOM CLOVER	528,000	15	13		
CRIMSON CLOVER	330,000	20	18	5	4	
RED CLOVER	600,000	10	9	5-7	4-6	
COMMON VETCH	15,500	40	36			
HAIRY VETCH	35,500	25	22			

COVER CROPS



In recent years, there have been noticeable changes in cultivation practices within the agricultural industry. One significant change is the increasing use of cover crops.

Agricultural producers are not only focused on achieving high yields and profitability but also on improving the health of their soils. They have recognized the importance of incorporating cover crops into their practices. This involves planting an intercrop alongside corn, soybeans, or cereals, utilizing green manure after harvesting cereals, or implementing riparian strips to minimize water and wind erosion. All these methods contribute to the goal of establishing a vegetal cover before the winter season.

By incorporating cover crops, farmers aim to achieve multiple benefits. These include reducing soil erosion, improving soil fertility, enhancing water infiltration, suppressing weed growth, and promoting biodiversity. The use of cover crops demonstrates a commitment to sustainable and environmentally-friendly agricultural practices.

Overall, the adoption of cover crops reflects a growing awareness among agricultural producers of the importance of preserving and nurturing the long-term health and productivity of their soils.

At Synagri, we have therefore relied on field trials with producers who are investing in these new practices to develop our new cover crop mixtures. Our observations have therefore enabled us to determine which species form the best possible combinations. Depending on your main crop, different mixes are available.

Do you want to increase the quality and structure of the soil, add nutrients?
Minimize erosion?

Control weeds?

If the answer is yes, we have got you covered!

THE CHOICE OF SPECIES



Forage peas

Fodder peas are one of the most efficient legumes for producing biomass. Hardy and fast growing, it excels as a green manure. It is fixing nitrogen, in addition to producing a good amount of organic matter, and it is easy to bury. Compared to faba bean, the root mass of the pea is very low. Dried aerial parts decompose very quickly.



Crimson clover

This clover is a hairy-looking biennial legume with flamboyant blood-red flowers. It grows to a height of 30 to 50 cm; its pale green leaves are covered with soft hairs. It has a single taproot which contains several nodules. It tolerates a wide variety of soil conditions, but performs best in well-drained, humified and loamy soils.



Faba bean

Faba bean is an annual plant with erect stems that can reach 1.50 meters in height. The faba bean has a powerful swivel and fasciculate root system, which deeply structures the soil. It is excellent at fixing nitrogen in the soil. A faba bean field crop can enrich the soil up to 55 kg of nitrogen per acre. It is cold resistant and tolerates poor or clay soils.



Berseem clover

This annual clover grows to a height of 30 to 120 cm. It has a hollow stem, slightly hairy leaves, and a yellowish-white flower. Its germination is like crimson clover, but it tolerates a drier seedbed. It has a short taproot that sits in the top 30 cm of the soil. It prefers loamy and clay soils. It tolerates poorly drained soils and drought better than crimson clover.

Common vetch

It is cold tolerant, grows very well in the fall and starts very quickly in spring. Can be sown in combination with other species, as it is not very competitive at the early growing stage. It provides a very good biomass. It is therefore more than interesting in hilly soils where there is less organic matter. It is an annual plant that does not survive the winter unlike the hairy vetch.



THE CHOICE OF SPECIES



Oat

Oats can be established in all types of soils, under all conditions. Its dense and deep root system effectively aerates the soil and helps reduce soil erosion, in addition to helping prevent the presence of weeds. It is a cold hardy annual grass that can be sown late. It is also a good source of carbon, which increases the humus level in the soil.



Annual ryegrass

This annual grass is interesting to sow with a legume. It has a structural root system for the soil that complements that of the legume. Ryegrass loves nitrogen and helps reduce leaching losses. On the other hand, it competes well with nitrogen-loving weeds. This is the most used plant as an intercrop in corn. Remember it can survive a mild winter... especially the biannual Italian type.



CDC Haymaker forage oat

CDC Haymaker is a spring oat variety with high forage yield potential. It outperforms other oats in its category in terms of forage quality and digestibility. It has extremely broad leaves.



Forage rape

Forage rape is an annual plant in the Brassicaceae family, which includes dicotyledonous plants such as cabbage, turnips, radishes, and others. Often used as a cover crop (between two successive annual main crops), this forage cover crop is known for being inexpensive, easy to establish, and fast-growing.

Kale

Cool Season Biennial. Kale is a leafy bush Brassica broadleaf. It can grow on poor land. The root system helps loosen up the top part of the soil profile. Kale has good salinity tolerance, and will help smother weeds. It has good fall frost tolerance and will tolerate shading. Leaves are large. Drought tolerance is good.



THE CHOICE OF SPECIES



Daïkon forage radish

It is an interesting annual plant to use as a green manure, because it has natural nematicide properties. The pivot of its root system is very powerful: it therefore has a very strong restructuring power of soils. Thanks to this pivot, the biomass produced by this radish is much greater than that of mustard, for example, without trapping more nitrogen. Its growth is rapid since its flowering occurs 7 to 9 weeks after sowing. It is less sensitive to heat and drought than mustard, and therefore suitable for early sowing.



Fodder turnip

The fodder turnip is a biennial plant in the Brassicaceae family. It thrives best in fertile, well-weeded sandy loam soils. It is also used to improve soil structure and enrich organic matter.



Yellow mustard

The rapid growth of mustard is just one of the qualities that make it an excellent green manure. Its deep roots help to decompact heavy soils and its aerial parts buried in the soil provide it with a first-rate nitrogen supply. Its role as a nematicide is very interesting in plots where potatoes have been grown. Because it grows very quickly and does not fear root competition, it covers the soil without delay and protects it from erosion. A plant can reach 50-80 cm tall in a single month.



OUR COVER CROPS MIXES...



SYN-CO NITROGEN mix

- 20% Faba Bean
- 20% Common vetch
- 10% Berseem clover
- 10% Crimson clover
- 40% Forage peas

Composed entirely of annual or biennial legumes that promote optimal nitrogen return for the subsequent crop. Ideal for planting before a corn crop.

Recommended seeding rate: 45–50 kg/ha

Sow using a conventional drill seeder (be mindful of seed segregation) or a pneumatic drill seeder; exercise caution when broadcasting (uniformity cannot be guaranteed due to variations in seed size).



SYN-CO BIOMASS mix

- 95% Forage peas
- 5% Daikon radish

Composed of annual species adapted to cold conditions to persist well into late fall. Use as a cover crop after harvesting a spring cereal crop, in combination with grass threshing residues left in the field. Ensure that the radish does not bolt.

Recommended seeding rate: 63 kg/ha

Sow using a conventional or pneumatic drill seeder, particularly because the seeds vary in size. If broadcasting with a variable-rate spreader, ensure sufficient overlap since the radish seeds will not be dispersed to the same distance as the peas (due to differences in seed density and size), and perform light tillage to prevent the seeds from remaining on the surface.



SYN-CO STABILITY mix

- 70% Forage peas
- 10% Daikon radish
- 20% Common oat

Composed of annual species that establish themselves quickly and provide excellent ground cover to compete with weeds. Can be sown as a summer cover crop following land leveling, for example. Be sure to mow or destroy the crop to prevent the radish from going to seed.

Recommended seeding rate: 85–95 kg/ha

Sowing with a conventional or pneumatic drill seeder is recommended due to the variation in seed size.



SYN-CO LATE mix

- 46% Common oat and 46% CDC Haymaker oat
- 8% Daikon radish

A mix containing fast-establishing species adapted to cold conditions for late-season growth. Make sure the radishes do not bolt.

Recommended seeding rate: 54 kg/ha

Sow using a conventional drill seeder; broadcast seeding will not result in uniform coverage due to the varying seed sizes.

SYN-CO BRASSICA mix

- 20% Daikon radish
- 20% Kale
- 20% Fodder turnip
- 20% Brassicas (forage rape)
- 20% Yellow mustard

A mix of brassicas crops that promotes rapid growth and, consequently, dense ground cover. The different root structures help improve the topsoil. Keep in mind that some brassicas crops (kale and turnip) are biennial and therefore survive the winter.

Recommended seeding rate: 8 kg/ha

Sow using a conventional drill seeder in the small-seed box, or broadcast sow with light tillage to ensure seed-to-soil contact.



OUR INTERCROP MIXES



OUR RIPARIAN MIX

Why intercrops?

EROSION
UP TO
100%



NITROGEN LOSS
UP TO
70%



PHOSPHORUS LOSS
UP TO
86%



RUNOFF
UP TO
78%



SYN-CO INTER I mix

- 44% MELQUATRO biennial ryegrass
- 56% Crimson clover

Ryegrass has a highly branched root system, which helps structure the soil and improve its bearing capacity. Clover provides a source of nitrogen for the next crop. With 56% legumes in the mix, it qualifies for the highest subsidy under the program. Depending on conditions, the mix may survive the winter.

Recommended seeding rate: 20 kg/ha

Sow with a drill seeder or broadcast, but be careful, as ryegrass is very light; therefore, make close passes to ensure a uniform distribution pattern.

SYN-CO INTER II mix

- 24% MELQUATRO biennial ryegrass
- 58% Crimson clover
- 18% Daikon radish

The ryegrass, clover, and radish mixture helps improve soil structure, promotes soil bearing capacity, and provides a source of nitrogen for the subsequent crop. With 58% legumes in the mixture, it qualifies for the highest subsidy under the program. Depending on conditions, the mixture may survive the winter.

Recommended seeding rate: 20 kg/ha

Sow using a pneumatic drill seeder or broadcast seeding, but be careful, as ryegrass is very light; therefore, make close passes to ensure a uniform seeding pattern.



SYN-CO RIPARIAN

- 30% Creeping red fescue
- 10% Kentucky bluegrass
- 20% Timothy
- 10% Alsike clover
- 10% Annual ryegrass
- 20% Perennial ryegrass

Recommended seeding rate, 40 kg/ha

A riparian strip is much more than a simple collection of herbaceous and woody plants. It generates many ecological and economic services. In fact, it controls erosion, filters pollution, and it is an efficient ecosystem that welcomes flora and fauna. It also serves as a visual landmark in the landscape and helps to reduce certain costs. Undertaking the restoration of a riparian strip is no small feat. Indeed, it is one of the most important actions to ensure the water quality of lakes and rivers.



TABLES

NOTES

Species table

Legend:
E = EXCELLENT
VG = VERY GOOD
G = GOOD
A = AVERAGE
P = POOR

	Annual ryegrass	Forage rape	Radish	Mustard	Crimson clover	Berseem clover	Common vetch	Faba Bean	Forage pea	Forage rape	Oat	CDC Haymaker oat	Kale
Seeding rate (kg/ha)	4-25	8-10	8-15	5-12	7-20	7-14	11-40	40-200	20-100	2-5	17-70	17-70	8-15
Dry matter (t/ha/yr)	2,2-10	4-5	4,5-8	3,4-10	3-4	3,5-4,5	4,5-9	6-7	4,5-5,6	2,5-5	4-5	5-7	4-8
Nitrogen fixers					VG	E	E	E	E				
Nitrogen recovery	VG	E	E	VG	A	G	G	P	A	E	VG	VG	E
Soil builder	VG	VG	VG	VG	E	VG	E	E	G	E	VG	E	VG
Erosion control	VG	VG	VG	VG	VG	VG	G	G	VG	VG	A	A	VG
Weed suppression	VG	E	E	VG	VG	VG	E	G	G	E	E	E	E
Allelopathic effect	G	VG	VG	VG			G		A	VG	VG	VG	VG
Quicker growing	VG	E	VG	VG	A	A	VG	G	VG	E	E	E	VG
Flood tolerant	VG	A	A	A	G	G	G	A	A	A	A	A	A
Drought tolerant	A	A	A	VG	G	A	VG	G	G	A	G	G	A
Decreasing compaction	G	VG	E	A	G	G	VG	G	A	E	P	P	E
Frost tolerance	-8°C	-15°C	-15°C	-7°C	-13°C	-13°C	-15°C	-5°C	-9°C	-18°C	-3°C	-3°C	-18°C
Small box			X	X	X	X							X
Brome box	X												
Drill box		X					X	X	X	X	X	X	

Note: The seeding rate varies depending on whether sown in combination or in pure

Mixes table

Legend:
E = EXCELLENT
VG = VERY GOOD
G = GOOD
A = AVERAGE
P = POOR

	Syn-Co stability	Syn-Co nitrogen	Syn-Co inter 1	Syn-Co inter 2	Syn-Co riparian	Syn-Co biomass	Syn-Co late	Syn-Co Brassica
Seeding rate (kg/ha)	85-95	45-50	20	20	40	60	54	8
Nitrogen fixers	VG	E	G	G	P	E	P	P
Nitrogen recovery	G	A	G	VG	A	A	VG	E
Soil builder	G	VG	E	VG	VG	G	VG	E
Erosion control	VG	VG	VG	VG	E	VG	G	VG
Weed suppression	G	VG	VG	E	G	G	E	E
Allelopathic effect	G	A	G	VG	G	A	VG	VG
Quicker growing	VG	G	G	VG	G	VG	E	E
Flood tolerant	A	G	G	A	G	A	A	M
Drought tolerant	G	G	G	A	A	G	G	M
Decreasing compaction	A	G	G	VG	G	A	A	E
Frost tolerance	-9°C	-10°C	-10°C	-12°C	-5°C	-10°C	-9°C	-15°C
Small box		X	X	X	X			X
Brome box			X	X	X			
Box drill	X	X				X	X	



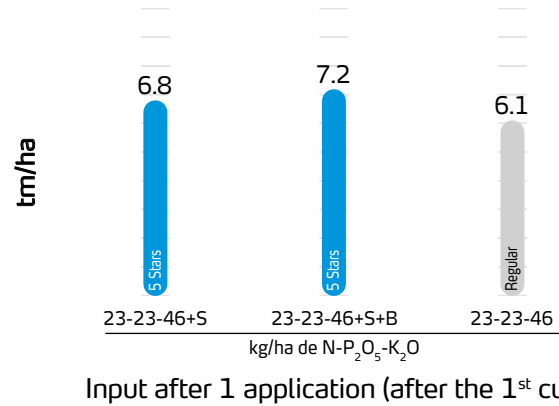
The composition of solid and liquid manure may not always align with the specific nutrient requirements of forage plants. To maintain soil fertility, balance, and ensure optimal growth and high-quality yields, the use of synthetic fertilizers becomes necessary. Synthetic fertilizers provide forage plants with the essential nutrients they need to thrive. In particular, the use of starter fertilizers is crucial for the success of forage crops. When plants are already established, they have an early demand for nutrients, especially during the spring season. However, during this time, the soil tends to be cold and wet, which limits its capacity to supply nutrients to the plants. This is where starter fertilizers come into play, providing the necessary nutrients directly to the plant's roots, bypassing the limitations of the soil conditions.



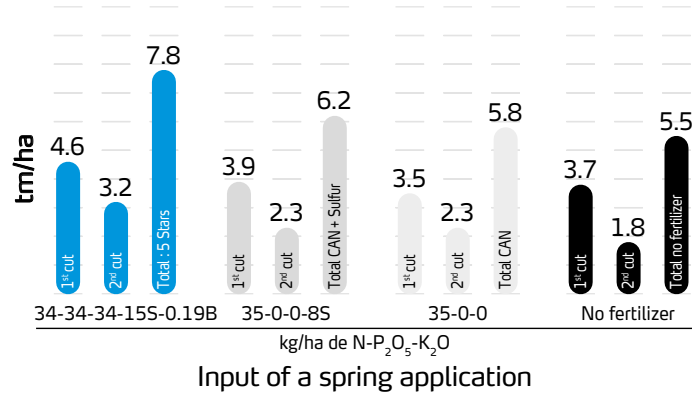
STARTERS
IN FORAGE PLANTS

RESULTS

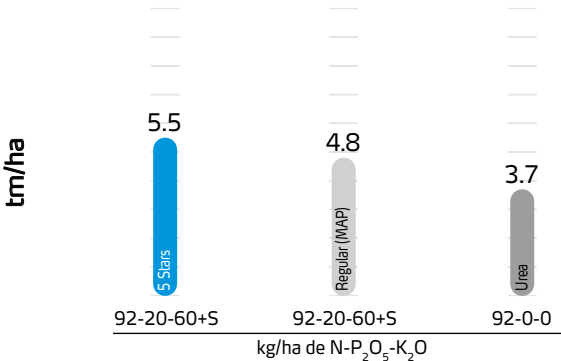
ALFALFA FERTILIZATION TESTS IN THE ESTRIE REGION,
2010. YIELD (KG/HA) AT THE 2ND CUT



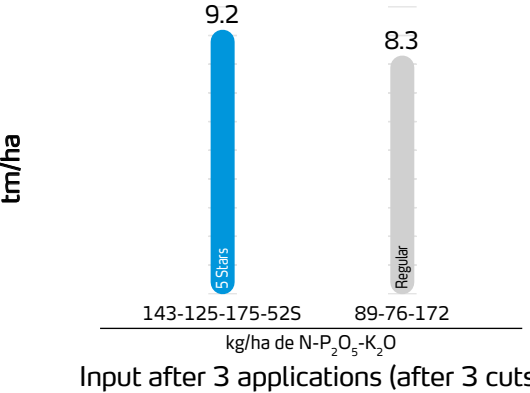
FERTILIZATION TESTS ON A 60% GRASS AND 40% LEGUMES
(CLOVER) PRAIRIE, LAC-SAINT-JEAN, 2014 AND 2015
Yields (MT/ha) according to the treatments



GRASS FERTILIZATION TESTS IN THE ESTRIE REGION,
2008. YIELD (KG/HA) AT THE 2ND CUT



PROGRAM COMPARISONS (5* VS. REGULAR).
TOTAL YIELDS AFTER FOUR CUTS IN SAINT-ALBERT, 2016.



PRESERVATIVES



SiloSolve®

Better silage
Better production
Better bottom line
Problem solved.

PROTECT-FOIN PLUS... for dry hay or silage

Protect-Foin Plus is a 70% buffered organic acid (56% propionic and 16% acetic). It is a liquid mold inhibitor for legume and grass hay with high moisture content. It is non-corrosive. It helps reduce heat build-up and mold in pressed hay between 20% and 35% humidity when used as directed.

Recommendations			
% moisture	Small Bales	% moisture	Large Square or Round Bales
16 - 19	3 liters/TM	15 – 18	3 liters/TM
20 – 24	5 liters/TM	19 – 22	6 liters/TM
25 – 29	10 liters/TM		
The density is 1.065 kg per liter			

Seal the silage silo (last 15-20 MT) by adding PROTECT-FOIN PLUS (5 L/ton) on the top of the silo. Protect-Foin Plus is available in 20, 200 and 1,000 kg formats.

MOLD-ZAP... for total mixed rations (TMRs) and silage

This is a unique mix of propionic and other buffered organic acids that blend to form a powerful mold inhibitor in TMRs and preserved foods.

The MOLD-ZAP:

- Reduces the heat caused by mold in TMRs, in coated feed and in silage exposed to air
- Improves savour thanks to its natural lemony taste
- Improves the quality of ingested feed
- Reduces waste in animal feed
- Helps reduce losses in animal production

APPLICATION RATE
1 kg/ton of finished feed (maximum 2 kg/ton in a TMR)
To seal the silo (the last 15 to 20 tons) add MOLD-ZAP (3 kg/ton)

Our SiloSolve® silage inoculant portfolio at a glance



			
	SiloSolve ^{MD} MC	SiloSolve ^{MD} AS	SiloSolve ^{MD} FC
Purpose	Microbial Control	Aerobic Stability	Fungal Control
Uses	Ideal for a range of crops, ideally those that are difficult to ensile (alfalfa) at lower DM (higher moisture) prone to Clostridic fermentation	Ideal for crops at higher DM (lower moisture) prone to heating at feedout due to yeasts and molds	Ideal for a broad range of crops, especially those that may be fed out early and require aerobic stability at feedout
Features	▪ Fast starter ▪ Strong finisher ▪ Patented Clostridia inhibition	▪ Fast starter ▪ Strong finisher ▪ Novel <i>L. buchneri</i> strain	▪ Fast starter ▪ Strong finisher ▪ Oxygen scavenging LAB ▪ Novel <i>L. buchneri</i> strain
Benefits	▪ Fast and efficient fermentation ▪ Improved dry matter recovery ▪ Reduced ammonia nitrogen	▪ Fast and efficient fermentation ▪ Aerobic stability	▪ Fast and efficient fermentation ▪ Improved dry matter recovery ▪ Aerobic stability ▪ Early feedout ▪ Superior mold and yeast inhibition
Crops	▪ Alfalfa ▪ Grass/Clover ▪ Corn silage ▪ Barley silage	▪ Corn silage	▪ Alfalfa ▪ Grass/Legume ▪ Corn silage ▪ Barley silage
Strains/Contents	▪ <i>Enterococcus faecium</i> ▪ <i>Lactobacillus plantarum</i> ▪ <i>Lactococcus lactis</i>	▪ <i>Enterococcus faecium</i> ▪ <i>Lactobacillus plantarum</i> ▪ <i>Lactobacillus buchneri</i>	▪ <i>Lactobacillus buchneri</i> ▪ <i>Lactococcus lactis</i>
Dose	2g/treated ton - 150,000 cfu per gram of forage	2g/treated ton - 150,000 cfu per gram of forage	2g/treated ton - 150,000 cfu per gram of forage
Application Rate	2 g/treated ton	2 g/treated ton	2 g/treated ton
Packaging	▪ 200 g canister (100tt) ▪ 1000 g canister (500tt)	▪ 200 g canister (100tt) ▪ 1000 g canister (500tt)	▪ 200 g canister (100tt) ▪ 1000 g canister (500tt)

Inoculant Quick Tips

- ✓ Use: Carefully read and follow all label directions for optimal use and performance.
- ✓ Storage: Store in original unopened canister in a cool, dry location. Once opened, maximize shelf-life by storing in a refrigerator with lid tightly closed.
- ✓ Water quality: If you can drink it, it is acceptable for inoculants.
- ✓ Water temperature: Maintain water temperature below 100°F for optimal effectiveness.
- ✓ Once mixed, discard unused inoculant after 48 hours.
- ✓ Rinse applicator well between uses.
- ✓ Clean and sanitize applicators regularly, especially before storage.
- ✓ Refer to the Chr Hansen Inoculant Handling Guide for more information.

PRESERVING THE QUALITY OF DRY HAY

Investing in the conservation of your hay is important. The vagaries of weather, namely the drought periods in recent years, have led to fodder shortages; hay is scarce, and this has an impact on its price. It is therefore important to properly store all harvested hay.

During baling, the application of buffered organic acids (a mixture of propionic and acetic acid) such as **Protect-Foin Plus** allows you to harvest hay with a few more humidity points. These additional humidity points provide a larger harvest window while ensuring high-quality hay.

Protect-Foin Plus slows down the development of mould as well as temperature increases in hay bales. This limits the loss of soluble sugars and reduces the amount of dust in the dry hay.

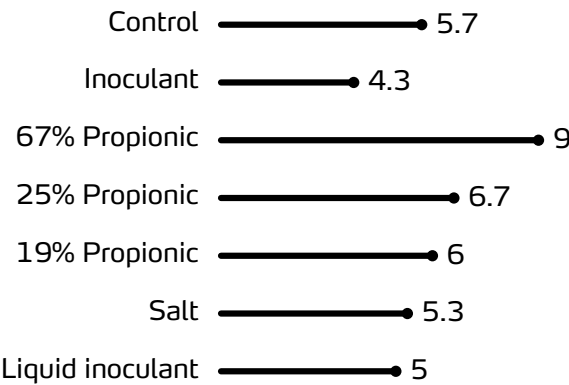
PROTECT-FOIN PLUS MOULD INHIBITOR CONTAINS 56% PROPIONIC ACID AND 14% ACETIC ACID.

According to Dan Undersander, the two most effective organic acids in maintaining fodder quality are propionic and acetic. He recommends using a mould inhibitor that contains a significant amount of propionic acid.¹

¹ Undersander, Dan, Hay Desiccants and Preservatives. University of Wisconsin Extension Cooperative, Agronomy Advice FC 12.4.1, revised July 1999.
² Baron, V. S., and Greer, G. G., 1988. Comparison of Six Commercial Hay Preservatives Under Simulated Storage Conditions. Can. J. Anim. Sci. 68: 1195–1207.

In a study carried out by researchers at Agriculture and Agri-Food Canada in Lacombe, Alberta, six preservatives were laboratory tested in dry hay, including three concentrations of propionic acid, an inoculant, salt, and a liquid inoculant (a mix of lactic acid, etc.). Several parameters were measured such as temperature rise and mould growth. The researchers observed the lowest mould-growth and temperature increases with buffered propionic acid.² They used a mould index to assess the effectiveness of different additives: the higher the index (close to 10) the less mould in the hay.

Comparison of Six Mould Inhibitors – AAC, Lacombe, Alberta



Protect Foin Plus allows you to press the hay at a slightly higher humidity level while avoiding temperature rises and preserving its nutritional properties. Mould produces mycotoxins like aflatoxin, vomitoxin, and zearalenone. The presence of these toxins can cause problems in terms of reproduction, consumption, and immune response. The addition of Protect-Foin Plus mould inhibitor stops mould growth and toxin production, in addition to preserving fodder quality.

PRESERVE THE QUALITY OF YOUR DRY HAY



The mold inhibitor PROTECT FOIN PLUS stops the development of mold and the production of toxins, it also preserves the quality of your forage.

Protect Foin Plus reduces the risk of heating and dustiness.

MAXIMUM PERCENTAGE OF HUMIDITY FOR OPTIMAL CONSERVATION

Type of Bale	Maximum Percentage of Humidity Without Protect-Foin Plus*
Small square bale	18%
Small tight square bale	15%
Round bale	14%
Large square bale	12%

*Below 25% humidity, each dry matter point causes a loss of 1% of leaves. It is strongly recommended to apply Protect-Foin Plus when the percentage of humidity for each type of bale exceeds that indicated in the table.

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!

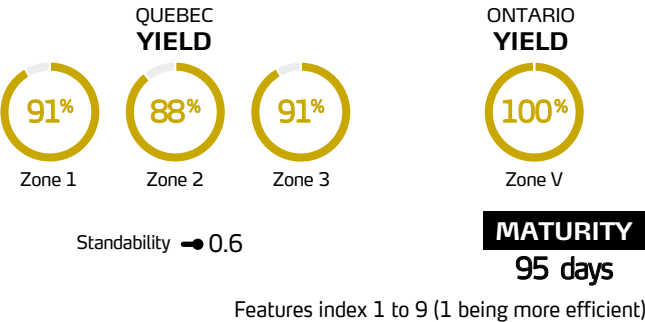
OATS



Mistral... for its whiteness

White oat who have a good resistance of leaf diseases

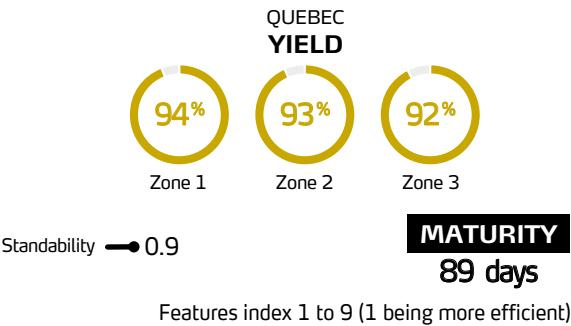
Recommended seeding rates: 425 to 400 seeds/m² (160 to 195 kg/ha)



Synextra... the protein pro

Specific weight superior, solid and tall straw

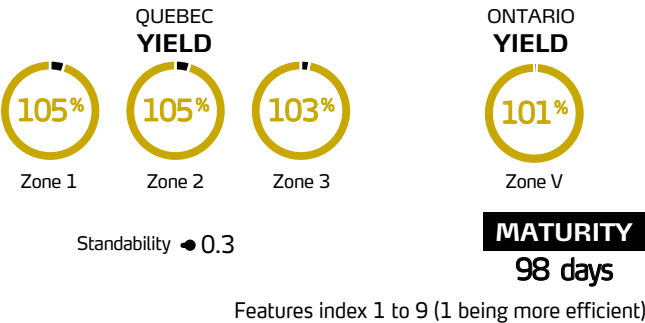
Recommended seeding rates: 425 to 400 seeds/m² (135 to 165 kg/ha)



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



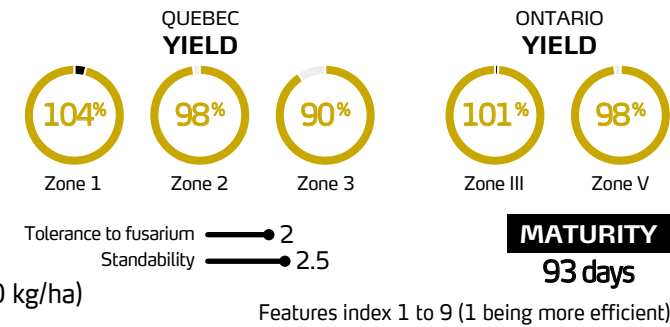
AAC Synox... superior quality

- 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.



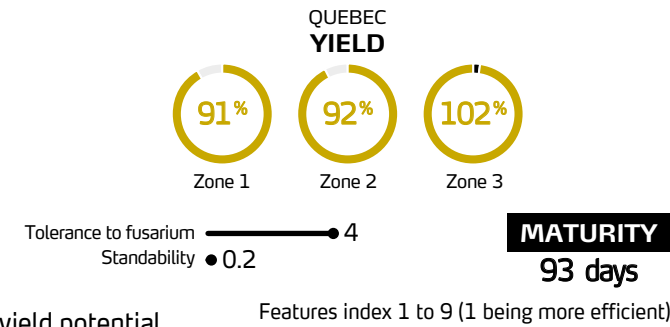
RGT Presidio... guaranteed yield

- 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.

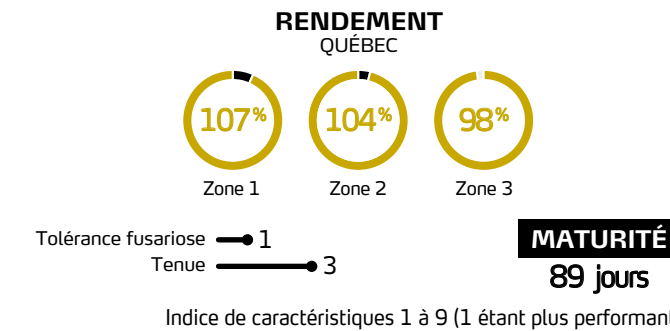


AAC ATEA... rendement et hâtivité

- 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)



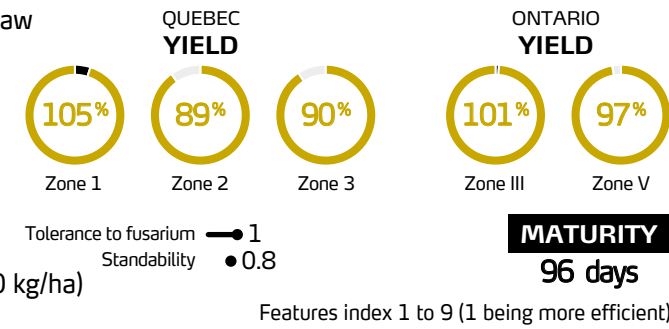
Major... high tolerance to Fusarium

- 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:

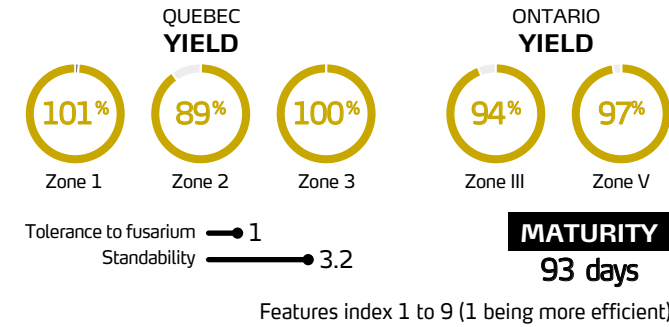
- Seeding rates 495 to 575 seeds/m² (200 to 240 kg/ha)
- Nitrogen dose: 125 to 150 kg/ha
- Fungicide: T1: If needed
T2: If needed
T3: If needed
- Growth regulator: Recommended in conditions where there is a risk of lodging



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.



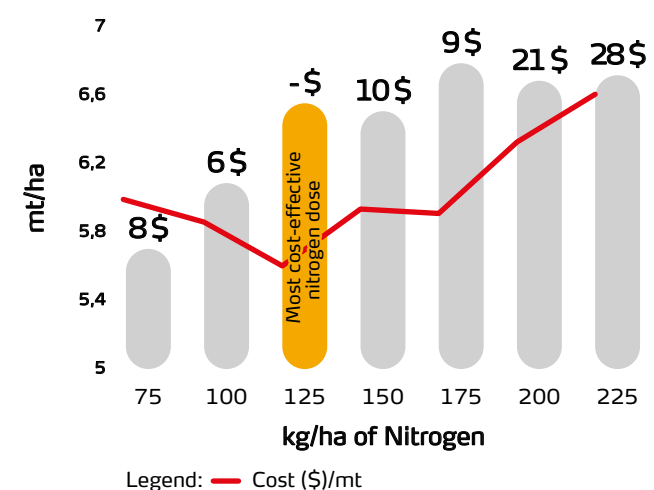
NITROGEN IN WHEAT

RESULTS

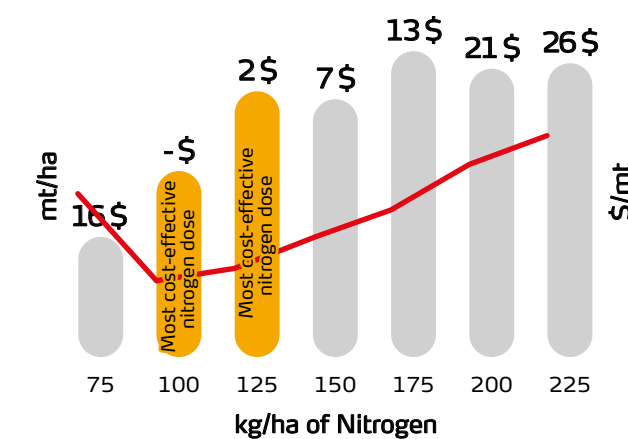
YaraBela® AXAN 27-0-0-3.75 (S)

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.



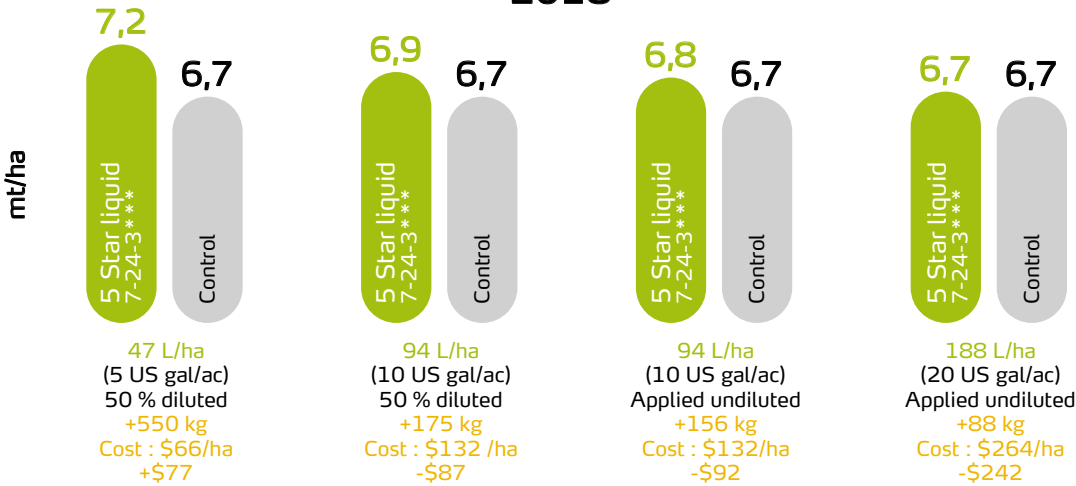
The primary goal of a liquid starter fertilizer, such as the 7-24-3 (5*), is to promote early plant growth and facilitate rapid root establishment. The effectiveness of a starter fertilizer lies in its ability to provide readily available phosphorus and facilitate quick absorption by the plant.



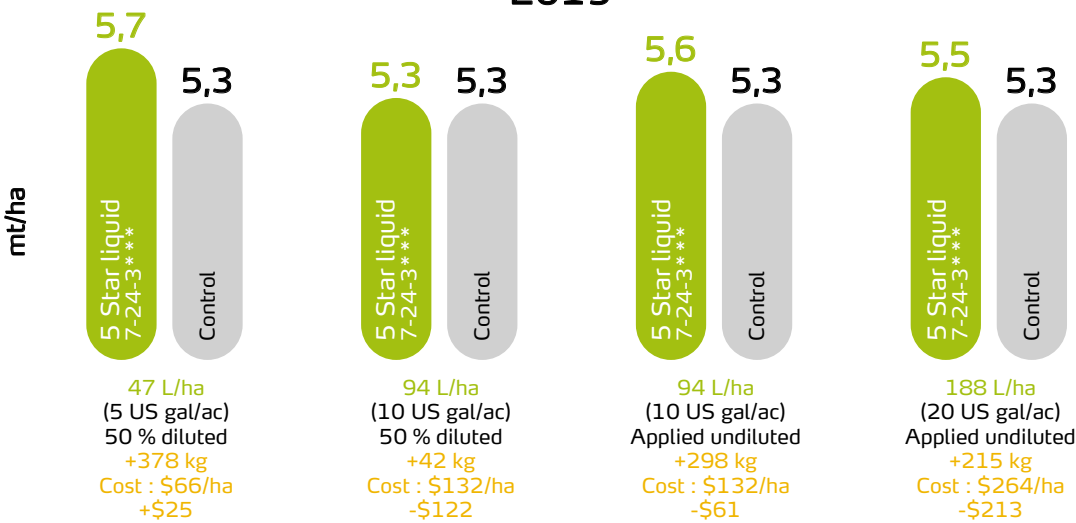
LIQUID
STARTER
IN WHEAT

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

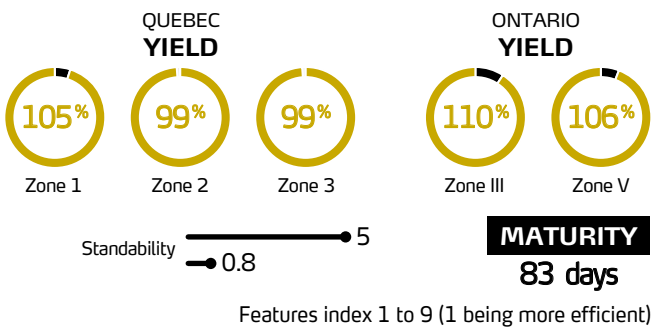
BARLEY



Waterloo... best yield in its category

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

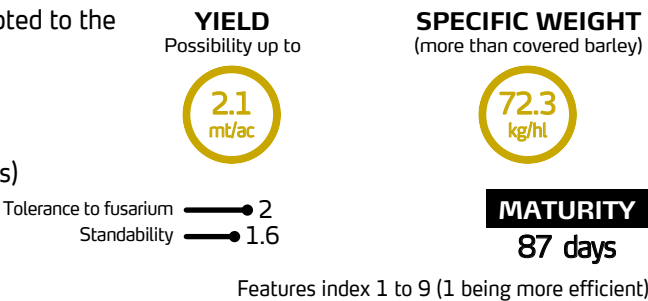
- Long and solid straw
- Specific weight around 68 kg/hL



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

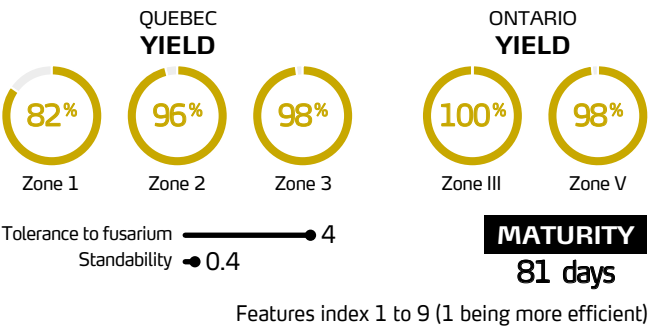
Growth regulator: Recommended

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



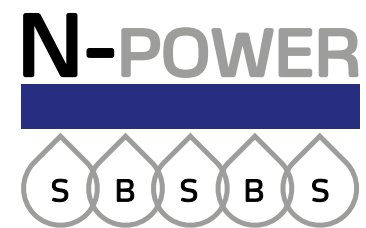
Recommended seeding rates: 375 to 440 seeds/m² (180 to 200 kg/ha)

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.

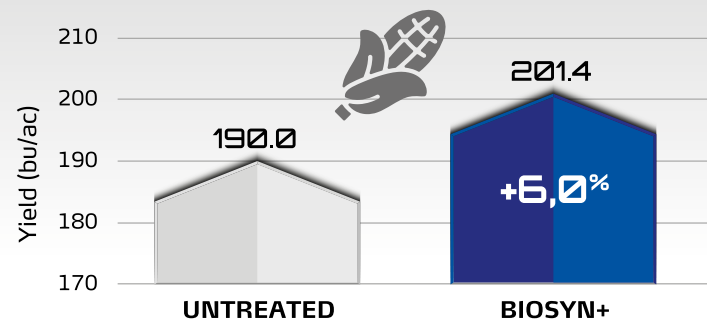
** Fusarium Head Blight: 1 = best tolerance, 9 = most susceptible.



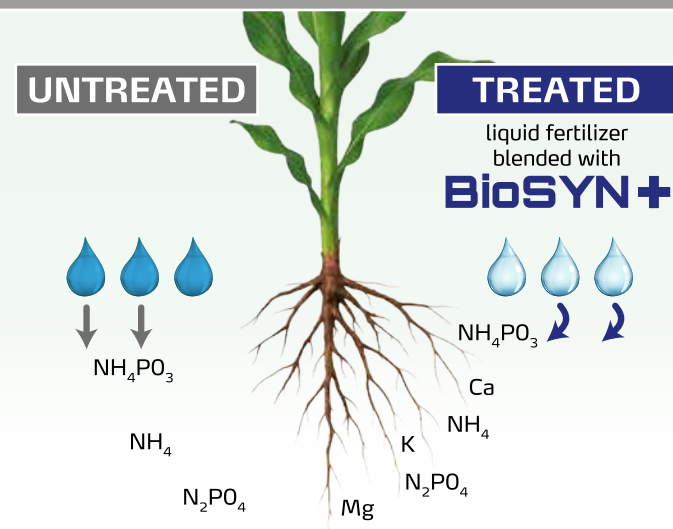
BioSYN+

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.

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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

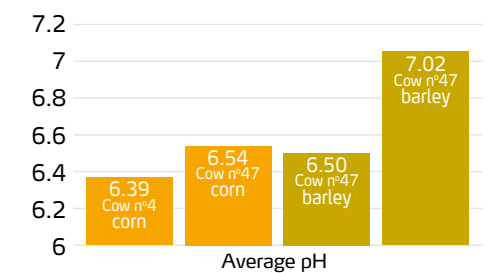
Purchase price of ground corn (\$/t)	Purchase price of ground hulless barley		
	\$275	\$250	\$225
\$255	\$138	\$169	\$200
\$265	\$169	\$181	\$213
\$275	\$200	\$194	\$225
\$285	\$150	\$206	\$238
Savings between \$6,900 and \$11,900 per year for a herd of 50 cows			

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					

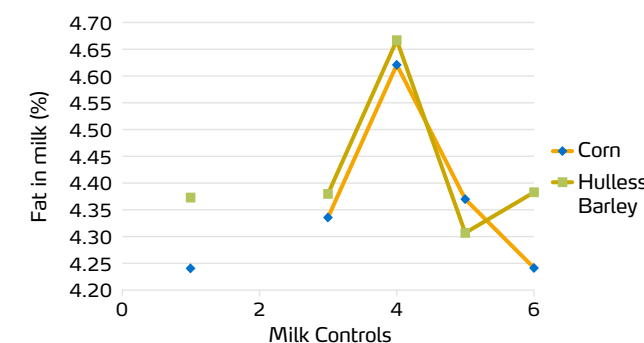
Zootechnical Results

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

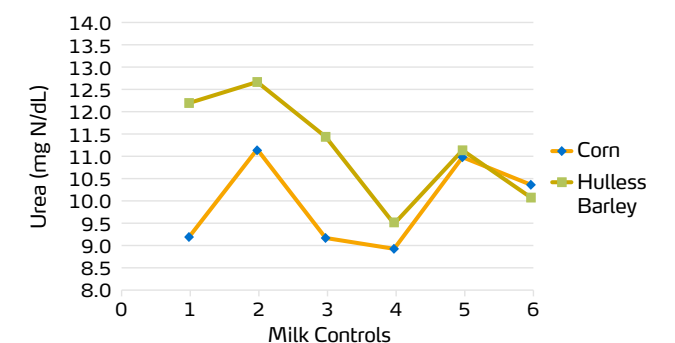
Average Ruminal pH Values of Four Sentinel Cows



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

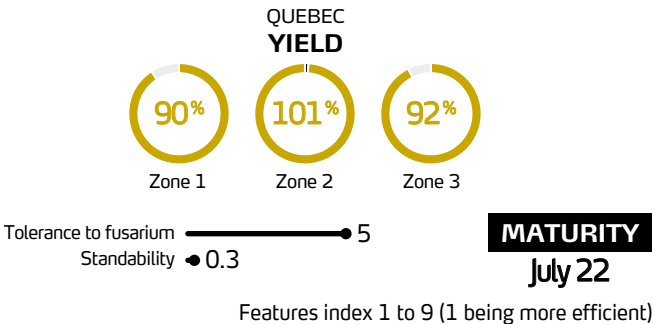
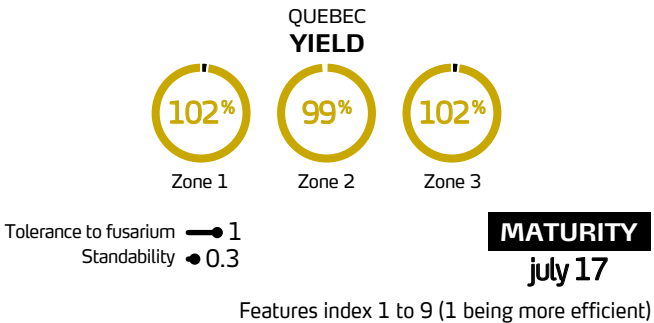
Recommended seeding rates: 500 to 550 seeds/m² (200 to 220 kg/ha)



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.

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

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

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).



Clean fields, clear outcomes

The only thing that should be growing like a weed this season is your corn. Lay the groundwork for clean high-yielding fields with the Foundation Acre® portfolio.

The Foundation Acre® lineup offers high performing herbicides for excellent, long lasting defense against yield-robbing pests.

With flexible pre-emerge and post-emerge application timing, you can customize your strategy to suit your crops and schedule.

Check out our herbicide options at [Syngenta.ca](https://www.syngenta.ca)

 **Acuron® Flexi**

 **Halex® GT**

 **Storen™**

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syngenta®



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*.

Making History

[DEKALB.ca](https://www.DEKALB.ca) | 1 888-283-6847 | [@DEKALB_Canada](https://www.instagram.com/DEKALB_Canada) | [@Bayer4CropsCA](https://www.instagram.com/Bayer4CropsCA)

* Source: Stratus Ag Research (2024)
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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

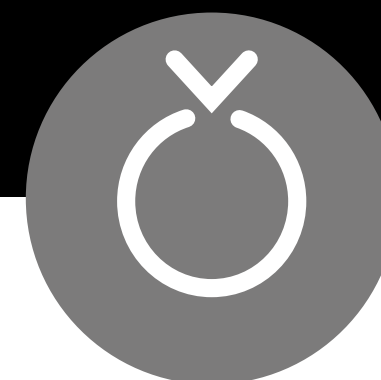
We are committed to developing and distributing
high-quality fertilizers that help agricultural producers
optimize their yields.

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.

SOYBEANS & CORN



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Development Manager
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Daniel Barré, MBA
Corn-Soybean & Market
Development Manager
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Proud to contribute to the food of tomorrow.

We are delighted to present the 2027 version of our Corn and Soybean Seed Guide. Our aspiration remains constant: to provide you with high-quality genetics to optimize your yields and ensure the profitability of your operation. To achieve this goal, we will collaborate with six leaders in the seed industry. Their innovations are essential to improving the productivity of your crops. Our partners of choice include:

Dekalb, a world leader recognized for its advanced research and next-generation herbicide tolerance technologies in corn and soybeans. DEKALB® is one of the oldest, most powerful, and most recognized seed brands in the world.

Horizon Seeds Canada Inc. is a family-owned and independent, wholly Canadian-owned company specializing in the research and distribution of high-performance seeds. Based in Courtland, Ontario, it focuses its efforts on the Eastern Canadian markets, particularly Ontario and Quebec.

Lidea Seeds is a leading international seed company, ranking among the top 10 global field crop seed companies. Founded on September 1, 2020, through the merger of two long-established French companies, Euralis Semences and Caussade Semences Group, the company is firmly rooted in Southwest France.

Sevita International, a Canadian expert in specialty soybeans (IP/non-GMO), facilitates access to high-value export markets.

Prograin, the largest privately owned soybean development company in Canada, offers varieties perfectly adapted to our climatic conditions.

Belcan, a trusted specialist, valued for its meticulous selection and local service, takes into account the specific needs of producers.

Consult this guide to identify the variety best suited to the specific challenges of your soil. Don't hesitate to contact our dedicated teams for support from sowing to harvest.



Every farm has different needs, whether it's IP production, standard markets, or weed control technologies. To simplify your selection, Synagri has compiled the standout varieties from its partners' offerings. This table provides a quick overview of the main recommended choices based on maturity zone and desired characteristics. For complete descriptions and detailed technical data, our partners' guides are available from your Synagri representative.

Partner	Variety	CHU	Zone*	Technology	Market	Profile or Characteristic
DEKALB	DKB 001-07	2325	1	Xtend	Standard	Very early
	DKB 006-80	2450	1,2	Xtend	Standard	Remarkable vigor
	DKB 03-25	2625	1,2	Xtend	Standard	Tolerance to sclerotinia
	DKB 08-80	2750	2,3	Xtend	Standard	Stable yield
	DKB 11-84	2825	3	Xtend	Standard	High potential
	DKB 11-11XF	2850	3	XtendFlex	Standard	Clay soils
	DKB 14-65	2925	3	Xtend	Standard	Very consistent and robust
SEVITA	Roxton	2575	2	Conventional	IP	Versatile
	Dundee	2700	2	Conventionnel	IP	High protein
	Matilda	2775	3	Conventional	IP	Excellent yield
	Alinova	2900	3	Conventionnel	IP	High yield
	SI 0225E3	2575	2	Enlist E3	Standard	Very early
	SI 0825E3N	2725	2	Enlist E3	Standard	High yield
	SI 1222E3N	2825	3	Enlist E3	Standard	Very versatile
BELCAN	OAC Champion	2650	2	Conventional	IP	IP contracts
	OAC Évolution	2700	2	Conventionnel	IP	High potential
	Serena	2700	2	Conventional	IP	High protein
PROGRAIN**	KOA	2475	1	QualiPro	IP	Good field stability
	HANA	2575	1	QualiPro	IP	Agronomic performance
	HOLA	2675	1	QualiPro	IP	Excellent lodging
	NORCO R2X	2325	1	Xtend R2X	Standard	Consistent variety
	TANGO R2X	2525	1	Xtend R2X	Standard	High yield potential
	ENRICO E3	2650	1	Enlist E3	Standard	Great field potential

LEGENDS :

*Zones

Zone 1 = Early area (Abitibi-Temiscamingue, North Shore, Quebec, Lac-Saint-Jean, Bas St. Laurent)
Zone 2 = Intermediate area (North Shore, Quebec, Eastern Montérégie, Western Montérégie)
Zone 3 = Late area (Western Montérégie, Eastern of Ontario)

**Prograin

These Prograin soybeans varieties are available only for the Quebec, Temiscamingue, Saguenay Lac St-Jean and Bas St-Laurent areas.

Choosing the right hybrid is crucial for maximizing yield potential based on your region, soil type, and production goals. The hybrids presented in this section represent Synagri's selection from the genetics offered by our partners. They were chosen for their adaptation to Eastern Canadian conditions, their stability, and their agronomic performance. For a complete analysis of each hybrid's characteristics, our partners' technical guides are available from your Synagri representative.

Partner	Hybrid	CHU	Zone*	Technology	Use	Profile or Characteristic
DEKALB	DKC 072-12RIB	2075	1	VT2P	Double use	Early vigor
	DKC 074-82RIB	2125	1	VT2P	Double use	Superb appearance
	DKC 082-21RIB	2475	1	Trecepta	Grain	Earlier Trecepta
	DKC 36-48RIB	2600	2	VT2P	Double use	Versatile
	DKC 091-11RIB	2750	2,3	VT4P	Grain	All-purpose
	DKC 094-94RIB	2850	3	VT4P	Grain	Large ears
	DKC 46-40RIB	2875	3	VT2P	Grain	Early flowering
	DKC 100-01RIB	3025	3	VT4P	Grain	Fast drying
	DKC 101-33RIB	3075	3	SSX PRO	Grain	Very high yield potential
HORIZON	HZ 1435	2225	1	PowerCore Enlist	Grain	Stress tolerance
	HZ 2315	2500	2	Conv - NGX	Grain	Consistent performance
	HZ 2536	2550	2	Duracade Viptera	Grain	Very robust
	HZ 2945	2675	2,3	Conv - NGX	Grain	Grain quality
	HZ 3247	2750	3	Duracade Viptera	Grain	Insect resistance
	HZ 3511	2850	3	Conv - NGX	Grain	Very vigorous
	HZ 3690	2875	3	PowerCore Enlist	Grain	Disease tolerance
LIDEA	LID1145C	2350	1	Conventional	Grain	Very early
	LID2020C	2650	2,3	Conventional	Grain	High yield
	ES Mylady	2850	3	Conventional	Grain	High performer

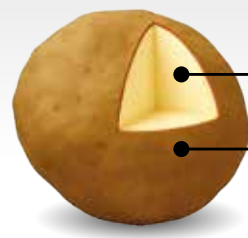
LEGENDS :

*Zones

Zone 1 = Early area (Abitibi-Temiscamingue, North Shore, Quebec, Lac-Saint-Jean, Bas St. Laurent)
Zone 2 = Intermediate area (North Shore, Quebec, Eastern Montérégie, Western Montérégie)
Zone 3 = Late area (Western Montérégie, Eastern of Ontario)

**Double use

Range of corn hybrids offered by our partners, that can be harvested either for grain or for silage, giving you great flexibility of use at the end of the season.



BioSYN+
It is mixed with our
superior quality
liquid fertilizers

BioSYN+

THE BENEFITS OF HUMIC
SUBSTANCES FOR CROPS

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)

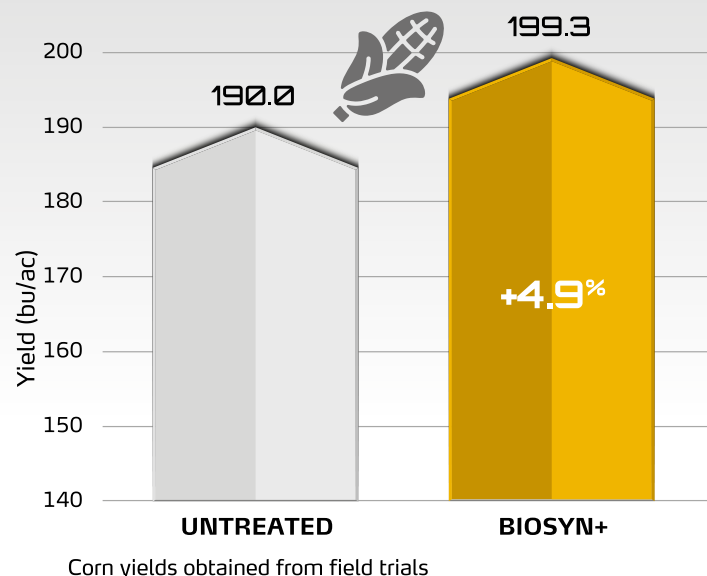
50\$/ac
*Including the cost of the product

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



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** ↑

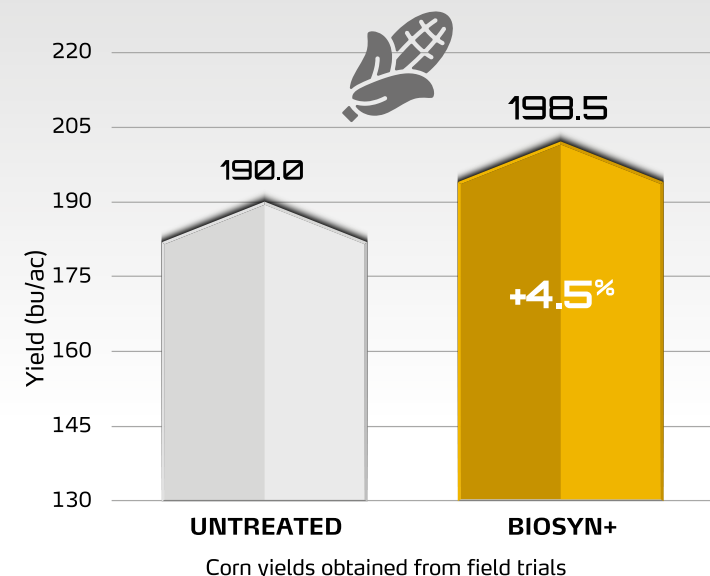
Increase your net income*
(based on a corn price of \$5.85/bu)

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

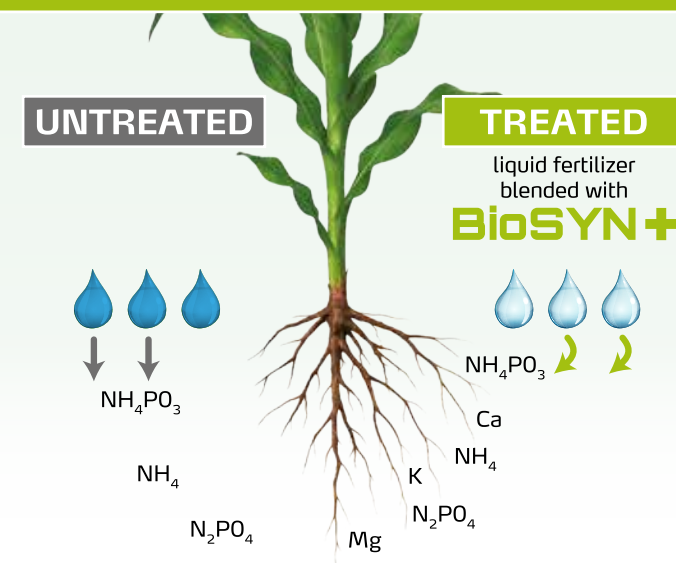
Example for a farm with 250 ac in corn

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**



Ease of application –
no special storage conditions



BioSYN+ improves

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

Faster Nodulation. Stronger Soybeans.

Optimize® FXC DS is a super-concentrated inoculant packed with two elite strains of *Bradyrhizobium japonicum*. Powered by exclusive LCO Promoter Technology™, Optimize® FXC DS kick starts early nodulation and maximizes nitrogen fixation, driving faster growth, stronger plants, and bigger yields across a wide range of field conditions. More nodules. More nitrogen. More return.

Optimize® FXC DS

See your local retailer today.

BIOLOGICALS
by



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ACTIVÉ PAR / ACTIVATED BY / ACTIVADO POR

**Oligo
Prime®**

CropBooster®

Exclusive to Synagri



We've got you covered.

Include **CropBooster® OP** in your corn post emergent herbicide programs to alleviate unwanted abiotic stress caused by herbicides and weather/soil conditions.

CropBooster® OP will deliver additional on farm profit of \$31/acre!

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.





SOYBEAN IP & ORGANIC GUIDE

2026-2027

High-performing varieties for IP and organic market

NEW FOR 2026-2027

SERENA CHU 2700

Belcan's new variety combining high yield potential, high protein content and excellent disease tolerance.

42.1%
PROTEIN

EXCELLENT
SCLEROTINA
TOLERANCE

TOP YIELD
POTENTIAL
IN TRIAL

IP



PERFORMANCE

QUALITY

RELIABILITY

PROXIMITY

180, Montée Sainte-Marie, Sainte-Marthe



BELCAN SOYBEANS 2026-2027

DESCRIPTIVE CHART									
BELCAN SOYBEAN VARIETIES									
CHU	2650			2700			NOUVEAU 2700		
VARIETIES	OAC CHAMPION			OAC EVOLUTION			SERENA		
Seeds/kg	5000			5000			4880		
Row spacing (inches)	7	15	30	7	15	30	7	15	30
Seeding rate (x 1000)/ha *Ideal Rate	500	*500	475	450	*437	*350	450	*437	*350
Seeding rate (kg/ha)	100	90	84	90	84	80	90	84	80
Type of plant	Semi-bushy			Semi-bushy			Semi-bushy		
Plant height (cm)	86			87			Average		
Hilum colour	Imperfect yellow			Imperfect yellow			Yellow		
Protein content (%)	42.0			40.0			42.1		
Yield potential	High			Very High			Higher than the average in trial		
Standability (1-5)	4.0			4.8			4.5		
Disease resistance (1-5)	4.5			4.5			4.7		
Adaptability (1-5)	4.2			4.0			4.2		
Vigor (1-5)	4.0			5.0			4.5		
Adaptation to 30" rows (1-5)	4.0			4.0			4.0		

Plant height: 1=short, 3=medium, 5=tall
Protein content and seeds/kg: indicative data

OAC CHAMPION CHU 2650

- Excellent tolerance to *White Mold*
- Very high demand on the IP market
- Organic buyback contract available

ESTABLISHED ORGANIC
BUYBACK CONTRACT

OAC EVOLUTION CHU 2700

- Excellent tolerance to *White Mold*
- Excellent yield potential
- No obligation to deliver the harvest (open loop available)

HIGH YIELD
POTENTIAL

NEW FOR 2026-2027

SERENA CHU 2700

- 42.1% protein
- Higher yield than average in trials
- Excellent tolerance to *White Mold*
- Yellow hilum

NKS :
PI 88788

Phytophthora :
1c

It is recognized that the likelihood of maximizing soybean yields increases with early planting. This practice strongly encourages the use of a starter fertilizer, which promotes faster plant emergence in cooler soil conditions compared to late planting. A starter fertilizer containing phosphorus and a small amount of nitrogen is beneficial, as these two nutrients promote early root development, which in turn stimulates nodule formation and nitrogen fixation.

The nitrogen in the starter fertilizer supports root development without replacing or hindering nodule development. On the contrary, a well-developed root system enables leaves to engage in photosynthesis more quickly, thanks to the supply of fertilizing elements. Well-developed leaves can provide sugars to the nodules, which, in turn, supply nitrogen to the plant and so on. Yields are maximized when the nodules can rapidly and abundantly supply nitrogen to the plant.



STARTER
IN SOYBEAN

RESULTS

a highly recommended approach

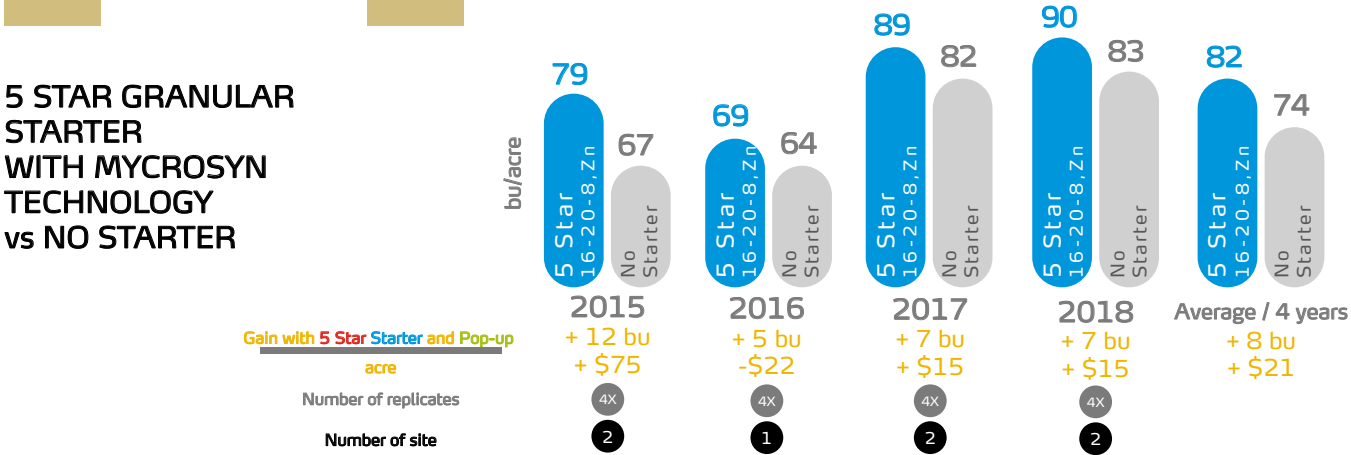
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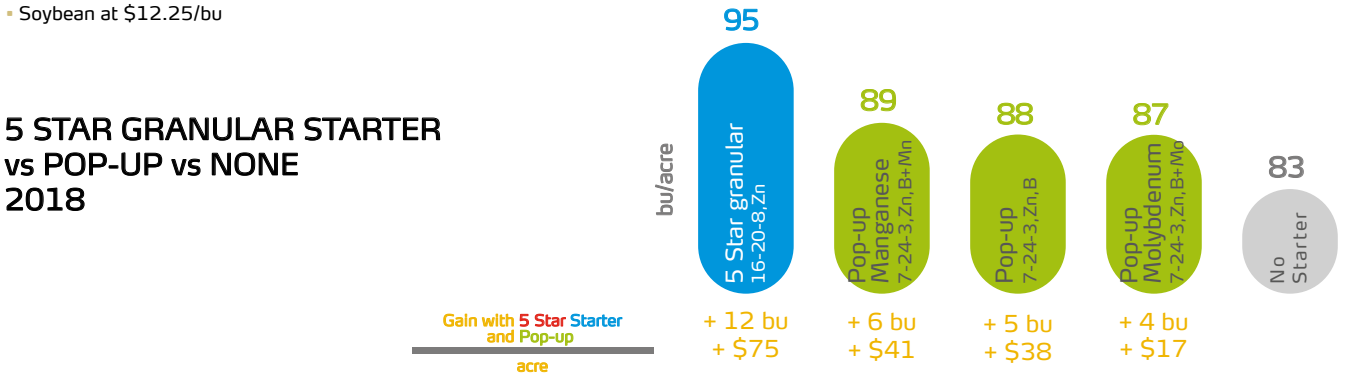
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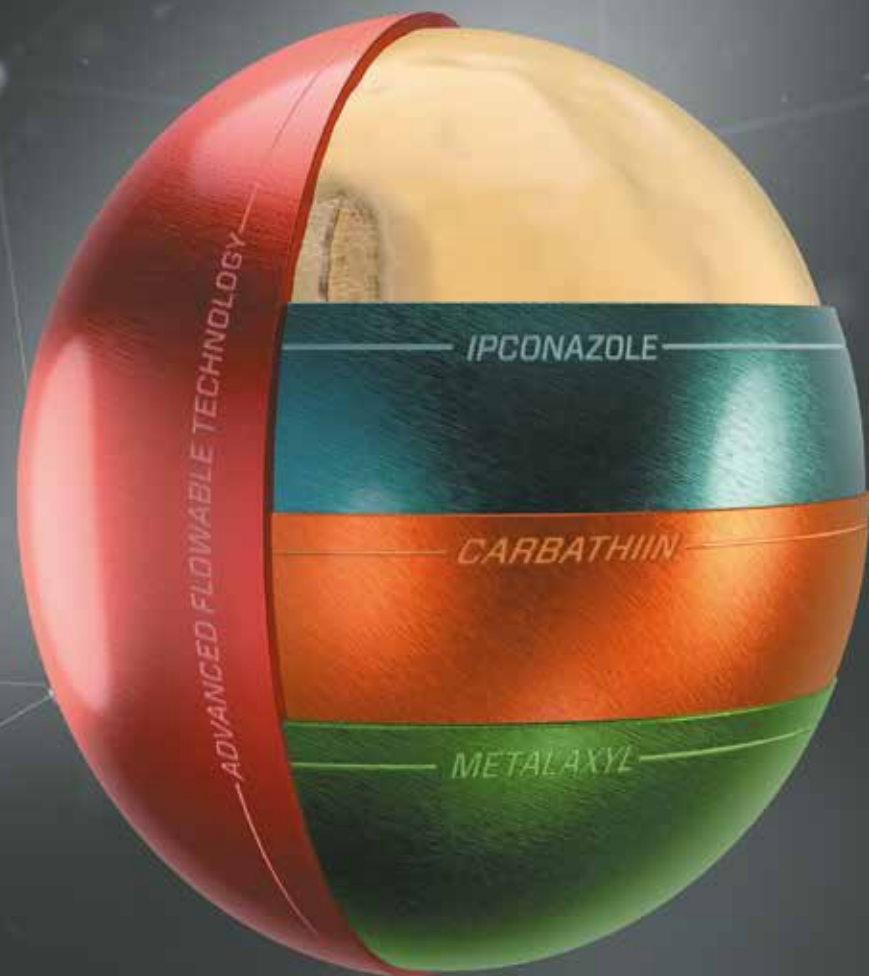
PHOSPHORUS

5 STAR GRANULAR STARTER WITH MYCROSYN TECHNOLOGY vs NO STARTER



5 STAR GRANULAR STARTER vs POP-UP vs NONE 2018





THREE POWERFUL FUNGICIDES. ONE AMAZING SEED TREATMENT.

Rancona® Trio fungicide seed treatment for cereal and pulse crops takes disease protection and improved crop emergence to new levels. By combining three powerful fungicides that provide both contact and systemic activity with the superior coverage and adhesion of Rancona® advanced flowable technology, you have a seed treatment that delivers more consistent protection under a wider range of conditions. Because when more seed treatment stays on the seed, you get more out of your seed treatment.



Scan to learn more or talk to your dealer or
UPL representative about Rancona® Trio 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



WEED PREVENTION FROM THE GROUND UP

In the battle against tough weeds, soybean growers can let their soil do the fighting. Authority® Supreme herbicide, applied pre-plant or pre-emergence, creates a powerful soil-based defence that weeds can't get past. The effective Group 14 and Group 15 combination delivers broadleaf and grassy weed control that keeps soybeans clean through the critical weed-free period.

Ask your local retailer how you can save up to \$5/acre when you purchase
Authority® Supreme herbicide and a Bayer Sencor® product.



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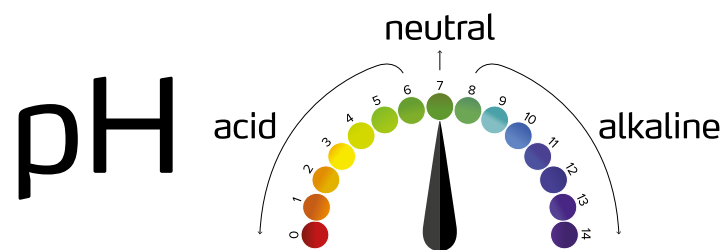
PRECISION AG



EXPERTS IN PRECISION FARMING



THINK ABOUT YOUR SOIL
ANALYSES THIS FALL,
GPS SAMPLING



- GPS Soil Analyzes
- Soil Analyses and easy-to-understand analysis report
- Georeferenced Mapping
- Recommendations for Lime and Variable-Rate
- Recommendations for Nitrogen and Variable-Rate seeding
- Digital Farming Management Platform- FieldView
- Field support with our or with your equipments

Our expert consultants combine their expertise with new agricultural technologies to find solutions, maximize your harvests, and build a sustainable future together.

Thanks to precision agriculture, every acre can be managed to reach its full potential. By leveraging the variability observed within each field, this approach enables smarter use of resources, reduces operating costs, and sustainably improves productivity.

Maximize the
potential and
profitability of
your land with the
expertise of our team.

Contact your Synagri
representative to
discover our full
range of precision
agriculture services.



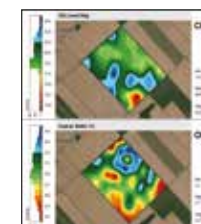
GPS Soil Sampling

The Wintex hydraulic soil sampler ensures consistent sampling depth.



Geosol Laboratory

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



Georeferenced Mapping

A detailed soil fertility report, including maps of all soil analysis parameters illustrating their spatial variability.



Variable-Rate Lime and Fertilizer Prescriptions

Improve soil fertility and optimize crop management.



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Québec Region

90 Des Grands-Lacs Street
Saint-Augustin-de-Desmaures, QC
G3A 2K1
418-878-1247

North Shore Region

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Road
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450-752-1081

East Ontario Region

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