



SEEDS GUIDE

2026-2027

SEEDS. SOLUTIONS.
FOR PROFITABLE AND SUSTAINABLE PERFORMANCE.



FORAGE

Forage Mixtures
Cover Crops
Intercrops Mixes
Riparian Mix
Conservation Products





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IS MUCH MORE
THAN A SLOGAN

GROW CROPS
DIFFERENTLY

IT REPRESENTS
OUR MISSION

“Supporting agricultural producers to make them more productive”

PREFACE



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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

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.

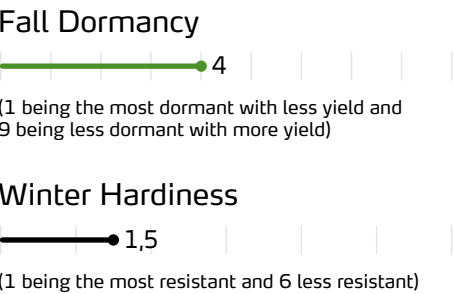
Don't forget that we also offer the full range of conservation products associated with dry hay (**PROTECT-FOIN PLUS, TOP-SIL**), haylage (**SILOSOLVE, MOLD-ZAP, BIO-PLUS, MAGNIVA O and MAGNIVA SILVER**), corn silage (**BIO-PLUS, TOP-SIL, MAGNIVA O and MAGNIVA Silver**) and for total mixed rations (**MOLD-ZAP**).

CULTIVARS



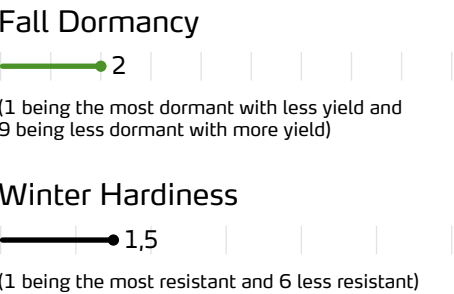
STELLAR III Alfalfa... superior yield and quality

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



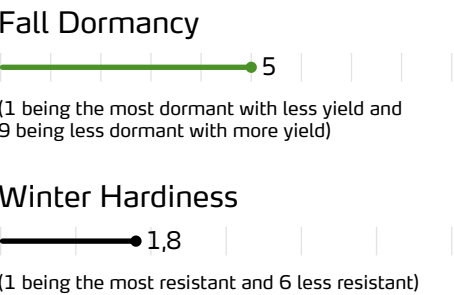
AAC TRUEMAN Alfalfa... excels in wet soil

- 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



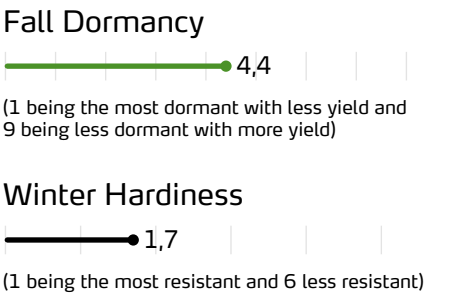
DOMINATOR II Alfalfa... for intensive harvest management

- 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%



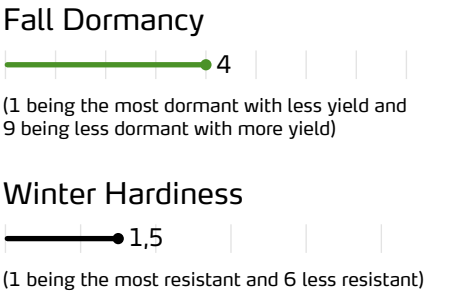
WL 344HQ Alfalfa... for its winning qualities

- 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)



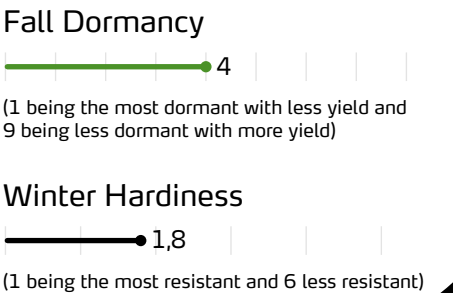
UPSURGE HG Alfalfa... highly digestible

- 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



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.



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

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

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

-  **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



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	\$\$\$



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



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 Bromegrass	15%
CDC TORSION	Meadow Bromegrass	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 Bromegrass	40%
CDC TORSION	Meadow Bromegrass	60%

- A mixture of a two-brome variety combining yield, quality and palatability
- Smooth bromegrass is erected and meadow bromegrass 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 Bromegrass	35%
CDC TORSION	Meadow Bromegrass	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 Bromegrass	35%
CDC TORSION	Meadow Bromegrass	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 Bromegrass and ryegrass (separately): 10 kg/ha

LESTRIS	Red Clover	10%
BOMBUS LADINO	White Clover	20%
DAWN	Timothy	20%
CDC TORSION	Meadow Bromegrass	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



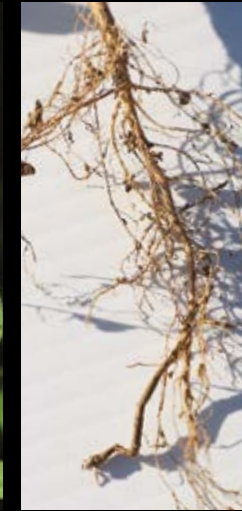
Forage peas

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



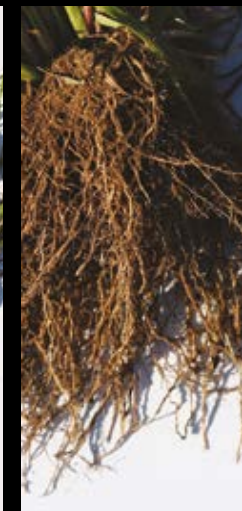
Oat

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

- Faba bean
- Common vetch
- Berseem clover
- Crimson clover
- 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

- Forage peas
- 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

- Forage peas
- Daikon radish
- 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

- Common oat and CDC Haymaker oat
- Forage peasr

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

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

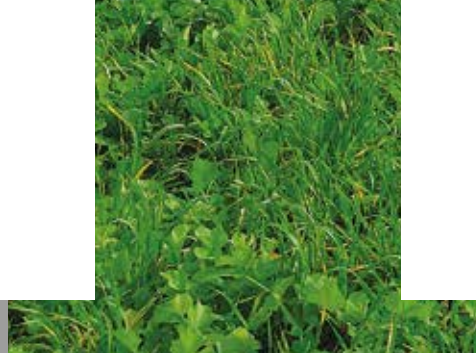
A mix of brassicas crops that promotes rapid growth and, consequently, dense ground cover. The different root structures help improve the topsoil. Keep in mind that some brassicas crops (kale and turnip) are biennial and therefore survive the winter.

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

- MELQUATRO biennial ryegrass
- 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

- MELQUATRO biennial ryegrass
- Daikon radish
- Crimson clover

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	

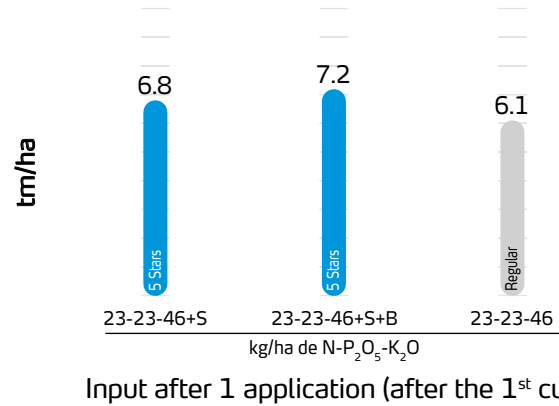
The composition of solid and liquid manure may not always align with the specific nutrient requirements of forage plants. To maintain soil fertility, balance, and ensure optimal growth and high-quality yields, the use of synthetic fertilizers becomes necessary. Synthetic fertilizers provide forage plants 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.



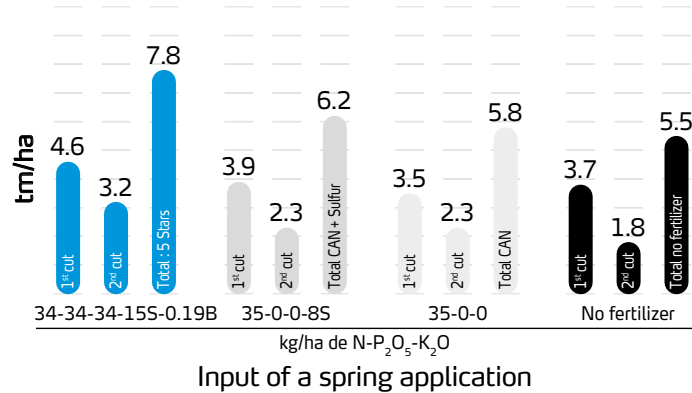
STARTERS
IN FORAGE PLANTS

RESULTS

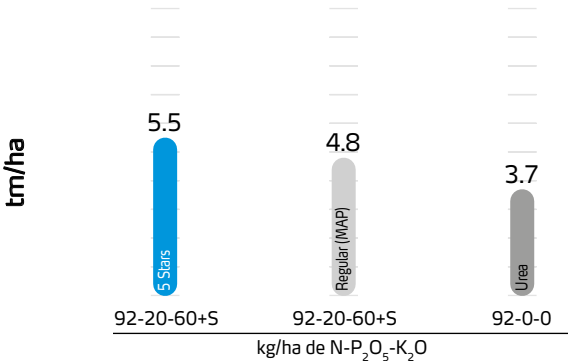
ALFALFA FERTILIZATION TESTS IN THE ESTRIE REGION, 2010. YIELD (KG/HA) AT THE 2ND CUT



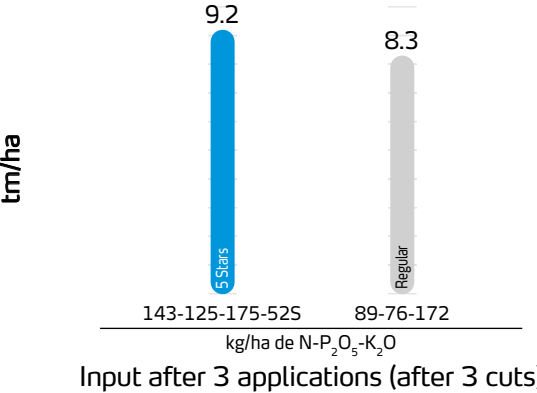
FERTILIZATION TESTS ON A 60% GRASS AND 40% LEGUMES (CLOVER) PRAIRIE, LAC-SAINT-JEAN, 2014 AND 2015
Yields (MT/ha) according to the treatments



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.

BIO-PLUS... for silage

200 g water soluble product (treats 40 MT of corn silage or 20 MT of grass silage). It's a unique and natural non corrosive product that combines 3 lactic bacteria and 3 enzymes.

A HOMOFERMENTATIVE inoculant

- Produces only lactic acid
- Lowers pH very quickly by preserving all sugars and producing very little heat
- Minimizes the loss of dry materials
- Improves the digestion of forage

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.

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.

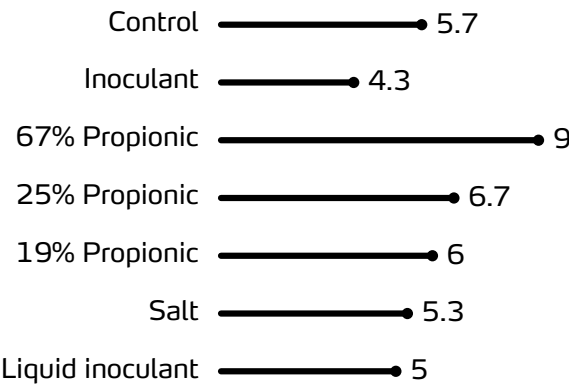
PROTECT-FOIN PLUS MOULD INHIBITOR CONTAINS 56% PROPIONIC ACID AND 14% ACETIC ACID.

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.

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.



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

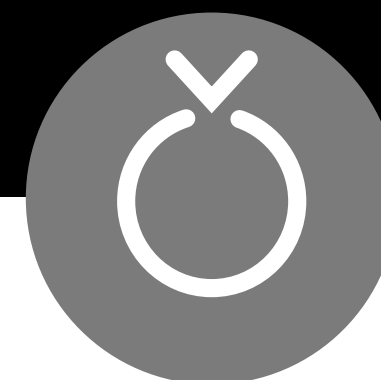
We are committed to developing and distributing
high-quality fertilizers that help agricultural producers
optimize their yields.

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.



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