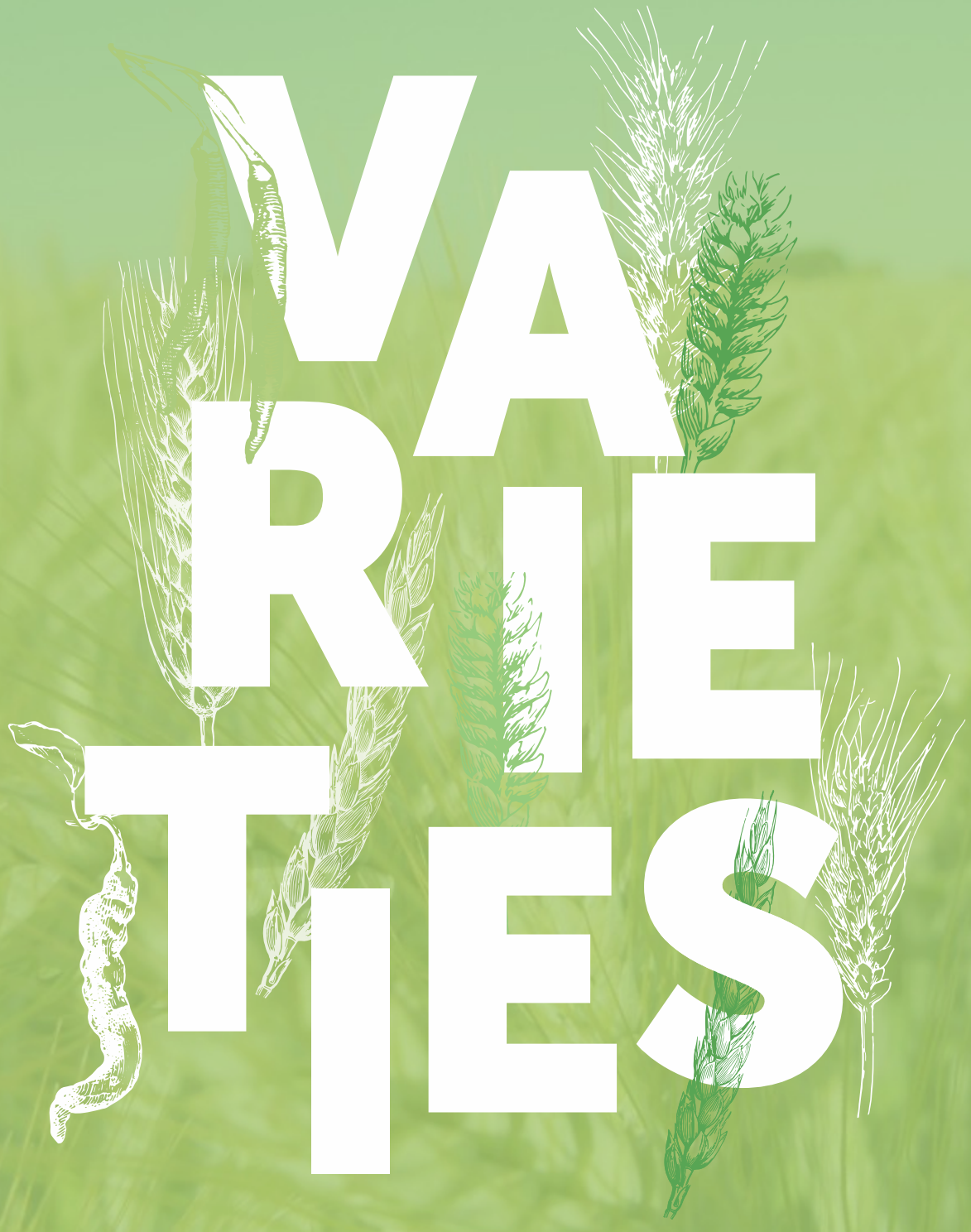
SEMENCES
Lemaire Deffontaines
SÉLECTIONNEUR OBTENTEUR



CONVENTIONAL AND ORGANIC FARMING

INTERNATIONAL CATALOGUE

EDITORIAL

Understanding and anticipating the expectations of farmers and markets to create the varieties of tomorrow.

Agricultural production faces many significant challenges. Although environmental constraints, societal pressure and expectations in terms of greenhouse gas reduction are weighing on agricultural policy orientations, the primary vocation of agriculture remains food.
Current geopolitical events and their consequences remind us that the balance is fragile.

LEMAIRE DEFFONTAINES is a French family business with over one hundred and fifty years of experience in variety selection. We develop varieties of straw cereals and protein peas. We also produce certified seed for our farmers in France.

In 2023, a new generation of managers is taking over the reins of the company. It wishes to invest even more in research in order to always offer varieties that meet the needs of farmers, the market and climatic hazards.

Any person or company wishing to work with us is welcome to visit our offices. We select from the best of our varieties to meet your needs in your area. Our agronomists can also visit your facilities. "We'll come and see you in your fields".

SEMENCES
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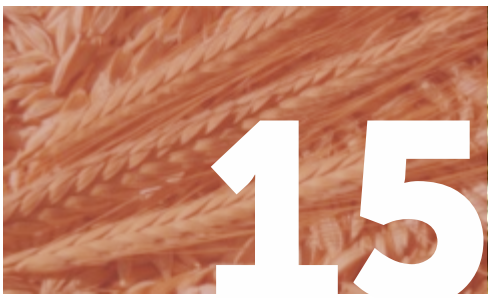

Discover our varieties via our website:
lemaire-deffontaines.com

THE WHEAT

Wheat for milling:
ARCACHON, CROSSWAY, ANDORRE...

Early wheats:
FORILLO, COMILFO, ALBIANO...

Biscuit wheat:
COSMIC, ADRIATIC, NUMERIC...

Wheat for organic farming:
LD CHAINE, LD VOILE, LD CAPE...

Lemaire Deffontaines offers you a whole range of productive and quality varieties selected for different markets, with conventional and also organic cultivation methods, for which Lemaire Deffontaines has a specific programme (covering power, tolerance to diseases, ability to better use nitrogen).

The new ANDORRE variety has entered the French catalogue in 2023. By its results, it meets the expectations in terms of diseases. It is also a fairly short variety with a high yield potential.

Lemaire Deffontaines is also introducing its new LD CAPE variety for organic farming, which is resistant to orange midges.

ARCACHON

- Early superior bread wheat
- Variety under observation by the French Milling Industry
- Very good yield potential: 103.1% of registration controls
- Very good ear fertility
- Variety fairly resistant to lodging
- Good cold tolerance
- Good disease tolerance profile: yellow rust, powdery mildew and septoria tritici blotch
- Fairly high specific weight

ALTERNATIVITY
winter to 1/2 winter type (3)

PRECOCITY OF HEADING
early (7)

HEIGHT:
short (3)

RESISTANCE TO LODGING
not very sensitive and fairly resistant (6.5)

RESISTANCE TO COLD
not very sensitive (6)

ANDORRE

NEW

- 1/2 early winter type variety
- Good productivity, variety registered with a yield of almost 101% of controls
- Short wheat with low lodging sensitivity
- Good resistance against diseases, with little difference in yield between treated and untreated situations
- High specific weight
- Variety suitable for traditional bread making
- Tolerance of the mosaic virus

ALTERNATIVITY
winter type (2)

PRECOCITY OF HEADING
1/2 early (6.5)

HEIGHT:
fairly short (4)

RESISTANCE TO LODGING
not very sensitive (5.5)

RESISTANCE TO COLD
fairly resistant (6.5)

LD VOILE

- BPS (superior bread wheat) bearded winter type semi-early
- Very good baking value, wheat with corrective profile, high protein and W content
- Good yield potential: 105.4% of organic registration controls
- A fairly tall variety
- Good resistance against powdery mildew, wheat leaf rust and fairly exceptional against fusarium head blight
- Very high specific weight

ALTERNATIVITY
winter to 1/2 winter type (3)

PRECOCITY OF HEADING
1/2 early (6.5)

HEIGHT:
medium (5)

RESISTANCE TO LODGING
not very sensitive (5)

RESISTANCE TO COLD
not very sensitive (5.5)

COSMIC

- Early winter wheat
- Biscuit wheat with very good performance in the official French test
- Excellent yield potential: 115% of registration controls in Italy
- Very good resistance against powdery mildew and yellow rust
- Variety with low lodging sensitivity
- Low P/L (0.2 to 0.3)
- W fairly low, 80-110 at 11% protein
- Very similar resistance to the Crousty reference in the office French biscuit test

ALTERNATIVITY
winter type (2)

PRECOCITY OF HEADING
early (7)

HEIGHT:
short (3.5)

RESISTANCE TO LODGING
not very sensitive (5.5)

RESISTANCE TO COLD
not very sensitive (6)

WHEAT

	VARIETIES	Beardedness	Alternativity	Precocity of bolting	Precocity of heading	Tillering	Height	Accidents in vegetation	
								Lodging	Cold
LEMAIRE DEFFONTAINES VARIETIES	AMBOISE		5	3	5.5	MEDIUM	SHORT	6.5	7
	ANTIBES ➲		4	2	6	FAIRLY STRONG	FAIRLY SHORT	7.5	6.5
	AVIGNON ➲	B	2	3	6	FAIRLY STRONG	MEDIUM	6	6
	BROADWAY		2	2	5.5	MEDIUM	MEDIUM	6	6.5
	CROSSWAY		2	2	5	FAIRLY HIGH	MEDIUM	6.5	7
	KIPLAY ●		2	2	5.5	FAIRLY HIGH	MEDIUM	5.5	6
	RECIPROC ➲	B	3	3	6.5	MEDIUM	MEDIUM	5	5.5
	ADRIATIC ▲ ➲		3	1	7	MEDIUM	FAIRLY SHORT	7.5	6
	ALBIANO	B	5	4	7	FAIRLY STRONG	SHORT	6	5.5
	ARCACHON ➲		3	4	7	FAIRLY STRONG	SHORT	6.5	6
	COMILFO ➲	B	3	4	7	MEDIUM	FAIRLY SHORT	5.5	5.5
	COSMIC ➲		3	2	7	MEDIUM	SHORT	6	5
	LD CHAINE ▲ ➲	B	3	3	6.5	FAIRLY STRONG	FAIRLY SHORT	5.5	6
	LD VOILE ▲ ➲	B	3	3	6.5	MEDIUM	FAIRLY HIGH	5	6
	NUMERIC ▲ ➲		3	3	7	MEDIUM	MEDIUM	6	6.5
	ADDICT ➲		4	4	6.5	MEDIUM	MEDIUM	6	5.5
	FORILLO ➲	B	2	4	7.5	FAIRLY STRONG	MEDIUM	6.5	5.5
	ALLIANCE ➲		8	4	8	MEDIUM	SHORT	5.5	2
	DIMARCO		4	7	8	MEDIUM	SHORT	5.5	6
	LD CAPE ▲ ●	B	3	3	6.5	STRONG	FAIRLY SHORT	7	6
	ANDORRE ● ➲		3	3	6.5	MEDIUM	FAIRLY SHORT	5.5	6.5
	FEELING ▲ ➲	B	9	4	6	FAIRLY STRONG	MEDIUM	5	3
REFERENCE VARIETIES	ACTIVUS	B	3	3	6	FAIRLY STRONG	MEDIUM TO HIGH	6	6.5
	ALESSIO	B	2	2	5.5	MEDIUM	MEDIUM TO HIGH	5.5	7
	CHEVIGNON		3	2	6	MEDIUM	FAIRLY SHORT	6	6.5
	ARTIMUS	B	3	4	7.5	MEDIUM	FAIRLY HIGH	7	7
	GRIMM	B	3	3	7	FAIRLY STRONG	SHORT	6	7

LEGEND

▲ Varieties available as organic seed.
● New.
➲ Available abroad.

Alternativity: from 1 = very winter to 9 = spring

Precocity of flowering: from 5 = late to 8 = very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

* Currently known and studied strains

Resistance to diseases*						Quality					
Eyespot	Yellow rust	Leaf rust	Powdery mildew	Fusarium head blight	Septoria tritici blotch	PS	Proteins (GPD)	Class	Resistance to midge	Resistance to chlortoluron	Resistance to the mosaic virus
3	3	7	8	3.5	7	4	7	BAU (Wheat for other uses)	T	T	S
4	8	6	6	5	6.5	5	4	BPS (Superior bread wheat)	S	T	S
2	7	4	6	4	5.5	7	6	BPS (Superior bread wheat)	S	T	S
6	7	6	7	5	6.5	7	6	BPS (Superior bread wheat)	S	T	S
2	7	4	6.5	5	6.5	5	5	BPS (Superior bread wheat)	T	T	S
3	7	6	7	5	6.5	6	6	BPS (Superior bread wheat)	T	T	S
3	4	7	6	4	6	6	5	BP (bread wheat)	S	S	S
4	4	7	6	5.5	5	3	4	BB	S	S	S
3	8	8	5	3	5	7	6	BP (bread wheat)	S	T	S
3	7	6	7	5	6	6	5	BPS (Superior bread wheat)	S	T	S
3	4	6	6	5	5	6	5	BPS (Superior bread wheat)	S	S	S
3	6	6	6	5	4.5	3	4	BB	S	T	S
2	7	7	7	6.5	6	6	4	BPS (Superior bread wheat)	S	S	S
3	5	6	7	6.5	5.5	9	9	BPS (Superior bread wheat)	S	T	S
3	7	6	5	5	6	7	4	BB	S	T	S
2	4	7	7	4	6.5	7	7	BAU (Wheat for other uses)		T	S
3	6.5	4	6	4.5	7	7	6	BP (bread wheat)	S		S
2	8	6	6.5	6	6	7	6	BP (bread wheat)	S	S	S
3	6	7	6	5	6.5	7	5	BP (bread wheat)	S	T	R
3	7	7	7	5	6	6	5	BP (bread wheat)	R		S
3	7	7	8	5	6	8	4	BPS (Superior bread wheat)	S	T	R
3	4	6	8	5	6	7	6	BPS (Superior bread wheat)	S	T	S
4	5	7	6	5	6	7	7	BAF (improving or strengthening wheat)	S	T	S
4.5	8	7	6.5	6	6	9	7	BAF (improving or strengthening wheat)	S	T	S
3	7	6	6	5	7	5	6	BPS (Superior bread wheat)	S	T	S
4.5	6	7	6.5	6	5	9	8	BAF (improving or strengthening wheat)	S		S
3	7	6	6	5	6.5	6	6	BPS (Superior bread wheat)	T	S	S

NOTE:
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THE TRITICALES

Lemaire Deffontaines is strengthening its position as a major player in the selection of triticale varieties. Research efforts in favour of this species by selecting lines that are productive, disease tolerant and have good grain qualities have resulted in a wide range of varieties: BILBOQUET and KITESURF as well as BICROSS and BONJOUR in 2023.

We offer a wide range of varieties adapted to different growing situations and to all markets, including methanisation. With the KITESURF variety, we are reinforcing this range with BICROSS. KITESURF is being developed on a large scale in Germany for its biomass production (biomethanisation orientation). EXAGON is a variety cited as a reference in CROATIA.

KITESURF

- Triticale ½ alternative ½ early with high vigour
- Very good yield potential
- Strong vegetative development and high biomass production
- Fairly high specific weight
- Very good resistance against powdery mildew and yellow rust
- Fairly good cold and lodging tolerance
- Fairly high protein content

ALTERNATIVITY
1/2 alternative (7)

PRECOCITY OF HEADING
1/2 early (6.5)

HEIGHT:
high (7.5)

RESISTANCE TO LODGING
not very sensitive (5.5)

RESISTANCE TO COLD
not very sensitive (5.5)

BILBOQUET

- Triticale ½ alternative ½ early
- Very good yield potential: 103% of registration controls
- Fairly high specific weight
- Very good health status, especially with regard to powdery mildew and rust
- Good cold and lodging tolerance
- Fairly high protein content

NEW

BICROSS

- Triticale ½ alternative ½ early with very good yield potential: 105.4% of registration controls
- Very high specific weight, 104.7% of controls
- Very good resistance against powdery mildew and rust
- Very high protein content, 103.8% of controls

NEW

BONJOUR

- Alternative and early triticale with a good yield level
- Rather tall triticale with a strong vegetative development and high biomass production
- Good lodging resistance
- High resistance to mildew, yellow and brown rust and scald
- High protein content (108 % of controls at listing)
- Rather high specific weight

ALTERNATIVITY
1/2 alternative (6)

PRECOCITY OF HEADING
1/2 late 1/2 early (6)

HEIGHT:
fairly high (7)

RESISTANCE TO LODGING
not very sensitive to fairly resistant (6.5)

RESISTANCE TO COLD
fairly resistant (7)

ALTERNATIVITY
1/2 alternative (6)

PRECOCITY OF HEADING
1/2 early (6.5)

HEIGHT:
fairly high (7)

RESISTANCE TO LODGING
not very sensitive (6)

RESISTANCE TO COLD
not very sensitive (5.5)

ALTERNATIVITY
alternative spring type (8)

PRECOCITY OF HEADING
early (7)

HEIGHT:
fairly high (7)

RESISTANCE TO LODGING
not very sensitive (6)

RESISTANCE TO COLD
not very sensitive (5.5)

	VARIETIES	Alternativity	Precocity of bolting	Precocity of heading	Height	Accidents in vegetation		Resistance to diseases*							Quality		Viscosity
						Lodging	Cold	Eyespot	Yellow rust	Leaf rust	Powdery mildew	Fusarium head blight	Septoria tritici blotch	Scald	PS	Proteins (GPD)	
LEMAIRE DEFFONTAINES VARIETIES	BIKINI ▲ ➲ ■	8	5	8	SHORT	6.5	6		8	6	5			7	7	7	2.6
	BILBOQUET ▲ ➲	6	1	6	MEDIUM	6.5	7		8	8	7			5	5	4	4.1
	JOKARI ▲ ➲	7	5	7.5	SHORT	6	4.5		8	6	6			7	7	6	2.2
	KITESURF ▲ ➲ ■	7	4	6.5	FAIRLY SHORT	5	5.5	4	8	5	7			4	7	5	2.6
	OXYGEN ➲	7	2	6.5	MEDIUM	6	6		5	8	6			7	8	7	2.3
	TRICANTO ▲ ➲	3	1	6	FAIRLY SHORT	7	7		7	6	6			6	8	6	
	DICAPRIO ➲	4		7	MEDIUM	6.5	7.5	4.5	7	6.5	6.5		5.5	5.5			
	ALAMBIC ➲	8		7	MEDIUM	6	5	5	7	6	8		7		8	7	
	BIENVENU ➲	8		7.5	MEDIUM TO FAIRLY HIGH	7	6	5	8	9	9	4	6	5			
	EXAGON ➲	6		6.5	FAIRLY HIGH	5	6.5	5	5	9	8		5.5				
	MENHIR ➲	3		6	FAIRLY HIGH	6.5	5	7	6	8	8		6	7	9		
	BICROSS ● ➲ ■	6		6.5	HIGH	6	5.5	5	8	8	7	5.5	7	6	8	7	3
	BONJOUR ▲ ● ➲ ■	8		7	FAIRLY HIGH	6.5	5.5	5	8	6	8	4.5	7	6		7	2.2
REFERENCE VARIETIES	PZO TENDER ■	4	3	6	HIGH	5.5	7		4	8	7		6		7	5	
	PRESLEY	3	2	6	SHORT	7	6	5	8	7	8			6	7	6	3.6

LEGEND

- ▲ Varieties available as organic seed.
- ● New.
- ➲ Available abroad.
- ■ Biomethanisation orientation

( ): to be confirmed.

Alternativity: from 1 = very winter to 9 = spring

Precocity of flowering: from 5 = late to 8 = very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

* Currently known and studied strains

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SPRING OATS

Biomass production is often equivalent between winter and spring oats despite very different plant architectures. This is because the plant cover is rather short and dense in winter oats, whereas the plants develop more during the bolting period in spring oats. In the choice of varieties, a variety with low susceptibility to crown rust should be preferred.

For use as a cover crop, it is important to destroy it properly towards the end of December and to find out about the regulations in force in your area (via the Nitrate Directive), particularly concerning the choice of species, dates and methods of destruction.

VARIETIES		JOUVENCE ➲	CORNEIL	DUFFY ▲	REFERENCE VARIETY HUCUL
LEMAIRE DEFFONTAINES VARIETIES					
	Grain colour	White	Black	White	Black
	Alternativity	9	9	9	9
	Precocity of maturity			6	
	Precocity of heading	5.5	5.5	6	6
	Height	5.5	5	5	5
	Lodging	6	5.5	5.5	6
Resistance to diseases*	Powdery mildew	6	5	5	5
	Crown rust	5.5	4	5.5	7
	Septoria tritici blotch	5.5	4		7

JOUVENCE

- White oats ½ early (DUFFY type)
- Medium size, not very sensitive to lodging
- Very good yield potential: 102.2% of registration controls
- Good tolerance to diseases
- TGW fairly high and good kernel content

ALTERNATIVITY
spring

PRECOCITY OF HEADING
1/2 early (5.5)

HEIGHT:
medium to high (5.5)

RESISTANCE TO LODGING
not very sensitive (6)

LEGEND

▲ Varieties available as organic seed.
➲ Available abroad.

( ): to be confirmed.

Alternativity: from 1 = very winter to 9 = spring

T: Tolerant

Precocity of flowering: from 5 = late to 8 = very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

NOTE:
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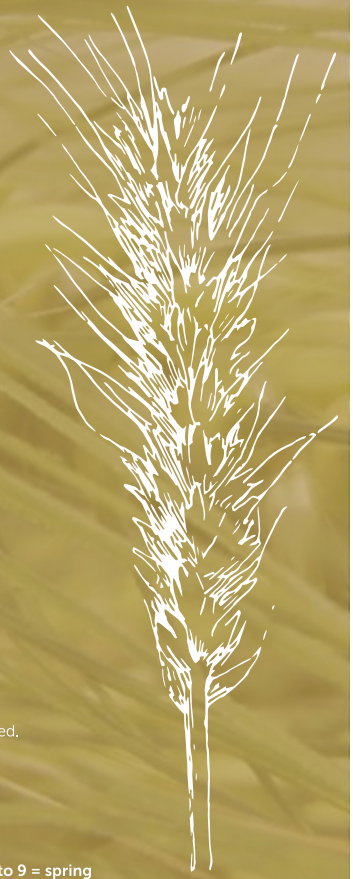
THE BARLEY

Winter barley selection is focused on multi-row and two-row varieties. Particular emphasis is placed on fertility, winter hardiness and disease resistance: powdery mildew and rust as well as resistance to yellowing.

Our TOUAREG variety has been a symbol of stability for over 10 years. CREATIVE strengthens the range with its productivity. While TERRAVISTA performs very well in terms of disease and cold tolerance (CTPS bonus), which is why it is of interest in organic farming.



LEGEND

- ▲ Varieties available as organic seed.
- ➲ Available abroad.
- ■ Forage orientation
- ■ Brewing orientation

( ): to be confirmed.

Alternativity: from 1 = very winter to 9 = spring

T: Tolerant

Precocity of flowering: from 5 = late to 8 = very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

NOTE:
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	VARIETIES	Number of rows	Alternativity	Precocity	Height	Accidents in vegetation: Lodging	Accidents in vegetation: Cold	Resistance to diseases*: Powdery mildew	Resistance to diseases*: Leaf rust	Resistance to diseases*: Leaf blight	Resistance to diseases*: Scald	Resistance to diseases*: Mosaic	Resistance to diseases*: Rumularia leaf spot	Resistance to diseases*: JNO (Barley yellow dwarf)
LEMAIRE DEFFONTAINES VARIETIES	TERRAVISTA ▲ ➲ ■	2	6	6.5	4.5	6	7	7	7	6	6	T		S
	CREATIVE ➲ ■	6	6	7	5	5.5	5.5	6	6	7	6	T		S
	TOUAREG ➲ ■ ■	6	6	7.5	4.5	4.5	6.5	5	5	4	6	T		S
	SIXTINE ➲ ■	6	3	8	4.5	4	6	9	6	9	4	T		S
REFERENCE VARIETIES	COCCINEL ▲ ■	6	6	7	4.5	5	7	7	7	6	6	T		T
	DEMENTIEL ■	6	4	6.5	4.5	5.5	4.5	6	5	6	6	T		S
	ETERNEL ▲ ■	6	6	7	4.5	5.5	4	6	5	5	6	T		T

TERRAVISTA

- Winter feed barley ½ late to ½ early
- Good yield potential: 102.5% of registration controls
- Medium-sized variety with good tolerance to cold and lodging
- Very good disease resistance
- High specific weight

CREATIVE

- Six-row winter barley with malting quality
- Early-maturing variety (= Touareg) fitting large European area
- Rather good frost resistance
- Good overall disease resistance including high resistance to net blotch.
- 119 % of controls in national listing in Italy.
- Good results in national listing in France: 103.12% of controls.
- Good calibration
- Medium-high protein content
- Medium-high specific weight between Amistar and Casino

TOUAREG

- Early winter barley for forage
- High yield potential
- Good frost resistance
- Adapted to a large area
- Mosaic resistant

ALTERNATIVITY
1/2 alternative (6)

PRECOCITY OF HEADING
mid-late to mid-early (6.5)

HEIGHT:
medium (4.5)

RESISTANCE TO LODGING
not very sensitive (6)

RESISTANCE TO COLD
fairly resistant to resistant (7)

ALTERNATIVITY
1/2 alternative (6)

PRECOCITY OF HEADING
early (7)

HEIGHT:
medium (5)

RESISTANCE TO LODGING
not very sensitive (5.5)

RESISTANCE TO COLD
medium (5.5)

ALTERNATIVITY
winter type with 1/2 alternative (6)

PRECOCITY OF HEADING
early (7)

HEIGHT:
quite short (4.5)

RESISTANCE TO LODGING
not very sensitive (5)

RESISTANCE TO COLD
not very sensitive (6)

SPELT

This cereal is suitable for human consumption (in mills after hulling) and for animal feed. It is used in the crop rotation of mixed farming operations as it is a choice feed for ruminants and horses because of its high fibre and protein content.

The dehulling stage after harvest is necessary to remove the grain bound to the husk. The husk can also be recycled in different markets: energy (pellets, briquettes, etc.), animal welfare (bedding) and other products with added value for human consumption.

This species is very suitable for organic farming.

CONVOITISE

- Large spelt registered in Belgium
- Very good yield potential: 106% of registration controls
- Good baking quality
- Very good disease tolerance, suitable for organic farming

ALTERNATIVITY
winter (3)

PRECOCITY OF HEADING
1/2 late 1/2 early (6)

HEIGHT:
fairly high (6)

RESISTANCE TO LODGING
not very sensitive (5.5)

RESISTANCE TO COLD
not very sensitive (6)

		LEMAIRE DEFFONTAINES VARIETIES	REFERENCE VARIETIES			
		VARIETIES	CONVOITISE	ALKOR	SERENITE	GLETSCHER
	Alternativity	3	3	3	3	3
	Precocity	6	6	6	5.5	6
	Height	6	6	6	6	5
Accidents in vegetation	Lodging	5.5	7	6	6	6.5
	Cold	6	9	7	7	7
Resistance to diseases*	Eyespot	6		6	6	5
	Powdery mildew	7	6	6.5	7	7
	Yellow rust	7	7	7	7	6
	Leaf rust	6	7	7	7	7
	Fusarium head blight	6	7	7	5.5	5
	Septoria tritici blotch	7	7	7	7	7
	Plant germination		8			

LEGEND

▲ Varieties available as organic seed.
➲ Available abroad.

( ): to be confirmed.

Alternativity: from 1 = very winter to 9 = spring

T: Tolerant

Precocity of flowering: from 3 = half-late to 8 = early to very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

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EINKORN

The demand for small spelt is increasing due to its higher nutritional value than wheat and its multiple health benefits. It has many advantages over modern wheat. For example, small spelt contains about 50% more protein and has a unique gluten structure, making it the preferred choice for consumers sensitive to wheat.

The growing demand for organic products is one of the main factors driving the demand for small spelt.

LD PHI

- Triticum monococcum registered in Germany
- Very good yield potential and good stem strength in contrast to existing varieties
- Good baking quality combined with the benefits of low gluten
- Yellow flour with high protein content
- Very good resistance, resistant to major diseases
- Suitable for organic and extensive farming, as well as for dry and difficult conditions.

ALTERNATIVITY
winter type (5)

PRECOCITY OF HEADING
1/2 late 1/2 early (6)

HEIGHT:
medium to high (4)

RESISTANCE TO LODGING
not very sensitive (7)

RESISTANCE TO COLD
not very sensitive (7)

		LEMAIRE DEFFONTAINES VARIETIES	
	VARIETIES	LD PHI ▲ ➲	LD BALLE ●
Resistance to diseases*	Septoria tritici blotch	6	6
	Fusarium head blight	7	7
	Leaf rust	6	6
	Yellow rust	7	7
	Powdery mildew	7	7
	Eyespot	6	6
Accidents in vegetation	Cold	7	7
	Lodging	7	7
	Height	4	4
	Precocity	6	5.5
	Alternativity	5	4

LEGEND

▲ Varieties available as organic seed.
➲ Available abroad.
● New.

( ): to be confirmed.

Alternativity: from 1 = very winter to 9 = spring

T: Tolerant

Precocity of flowering: from 3 = half-late to 8 = early to very early

Diseases and accidents in vegetation: 1=very sensitive, 2=sensitive, 3=fairly sensitive to sensitive, 4=fairly sensitive, 5=fairly sensitive to not very sensitive, 6=not very sensitive, 7=not very sensitive to fairly resistant, 8=fairly resistant to resistant, 9=resistant.

NOTE:
The information provided in this document is for guidance only and may vary according to agronomic and climatic conditions and cultivation techniques. Disease resistance concerns only those diseases and strains currently known and studied in France.

SPRING PROTEIN PEAS

Currently, European feed protein production covers 77% of its needs, the remaining 33% is imported. CAP (Common Agricultural Policy) regulations are pushing farmers and breeders to include these crops in crop rotation.

Forage plants cover 42% of the needs, followed by cereals such as wheat and barley at 22%. Pulses (peas, lupin beans, etc.) only cover a small proportion of requirements compared to cereals, although their protein content is over 20%. Under the new CAP, protein crops could be supported through eco-regimes and coupled support.

At Lemaire Deffontaines, we anticipated these changes almost 30 years ago by diversifying our breeding programme towards spring protein peas. Today, we are developing some of the most productive and protein-rich spring peas such as BELMONDO, ANGELUS, BATIST and CAPTUR.

CAPTUR

- Spring peas with yellow grain
- Very good yield potential: 110.6% of registration controls
- ½ early variety with good stem strength in vegetation and at harvest
- Very high protein content (102.9% of controls)

GRAIN COLOUR
yellow

PRECOCITY OF FLOWERING
1/2 early (Kayanne + 1 day)

PRECOCITY OF MATURITY
1/2 early

HEIGHT AT END OF FLOWERING
high (=Kayanne)

HEIGHT AT MATURITY
high (=Kayanne)

TGW
medium to high (Kayanne + 15g)

BATIST

- Spring peas with yellow grain
- Very good yield potential: 106% of registration controls
- Excellent results in the 2021 trials
- ½ early variety, fairly high at harvest
- Above-average protein content

ANGELUS

- Afila peas with yellow grain
- ½ early variety (Lumina type)
- Very good stem strength in vegetation and at maturity
- Medium TGW (245 to 260 grams)
- Very good yield potential (102.6% of registration controls)
- Very high protein content (24.2)

CORTEX

NEW

- New in 2023: Protein peas with yellow grain
- Excellent yield potential: 110.1% of controls
- Fairly early variety with good stem strength in vegetation and at harvest
- Medium protein content

GRAIN COLOUR
yellow

PRECOCITY OF FLOWERING
1/2 early (Kayanne)

PRECOCITY OF MATURITY
1/2 early

HEIGHT AT END OF FLOWERING
high (>Safran)

HEIGHT AT MATURITY
high (>Safran)

TGW
medium to high (Kayanne + 30g)

GRAIN COLOUR
yellow

PRECOCITY OF FLOWERING
1/2 late 1/2 early (Lumina)

PRECOCITY OF MATURITY
1/2 early

HEIGHT AT END OF FLOWERING
high (>Avantgarde)

HEIGHT AT MATURITY
high (=Kayanne)

TGW
medium (=Lumina - 5g)

GRAIN COLOUR
yellow

PRECOCITY OF FLOWERING
1/2 early (Kaméléoni)

PRECOCITY OF MATURITY
1/2 early

HEIGHT AT END OF FLOWERING
high (=Safran - 5cm)

HEIGHT AT MATURITY
high (>Safran)

TGW
medium to high (=Safran)

SPRING PROTEIN PEAS

	VARIETIES	Grain colour	Precocity of flowering	Precocity of maturity	Height at end of flowering	Height at harvesting	TGW	Protein content
LEMAIRE DEFFONTAINES VARIETIES	ANGELUS	yellow	1/2 VE	1/2 P	H	H	M	24.2
	BATIST	yellow	1/2 P	1/2 P	H	H	ME	24
	CAPTUR	yellow	1/2 P	1/2 P	H	H	ME	25
	EQUINOX	yellow	1/2 VE	1/2 P	H	H	M	24
	PROSPER	yellow	1/2 P	1/2 P	H	H	AF	22
	SIDERAL	yellow	1/2 VE	1/2 P	AH	H	AE	24
	VERTIGE	green	1/2 VE	1/2 P	H	H	M	21
	BELMONDO	yellow	1/2 VE	1/2 P	H	M	H	25
	CORTEX	yellow	1/2 P	1/2P	H	H	AE	24
	RIVOLI	yellow	1/2 VE (Equip)	1/2 P	T (Kayanne)	T (Astronaute)	p (Kayanne)	24.2
REFERENCE VARIETIES	GREENWAY	green	1/2 P	1/2 P	H	H	M	24
	ROCKET	yellow	1/2 P	AP	VH	VH	p	21

LEGEND

- ▲ Varieties available as organic seed.
- ● New.
- ➲ Available abroad.
- ■ Biomethanisation orientation

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* Currently known and studied strains

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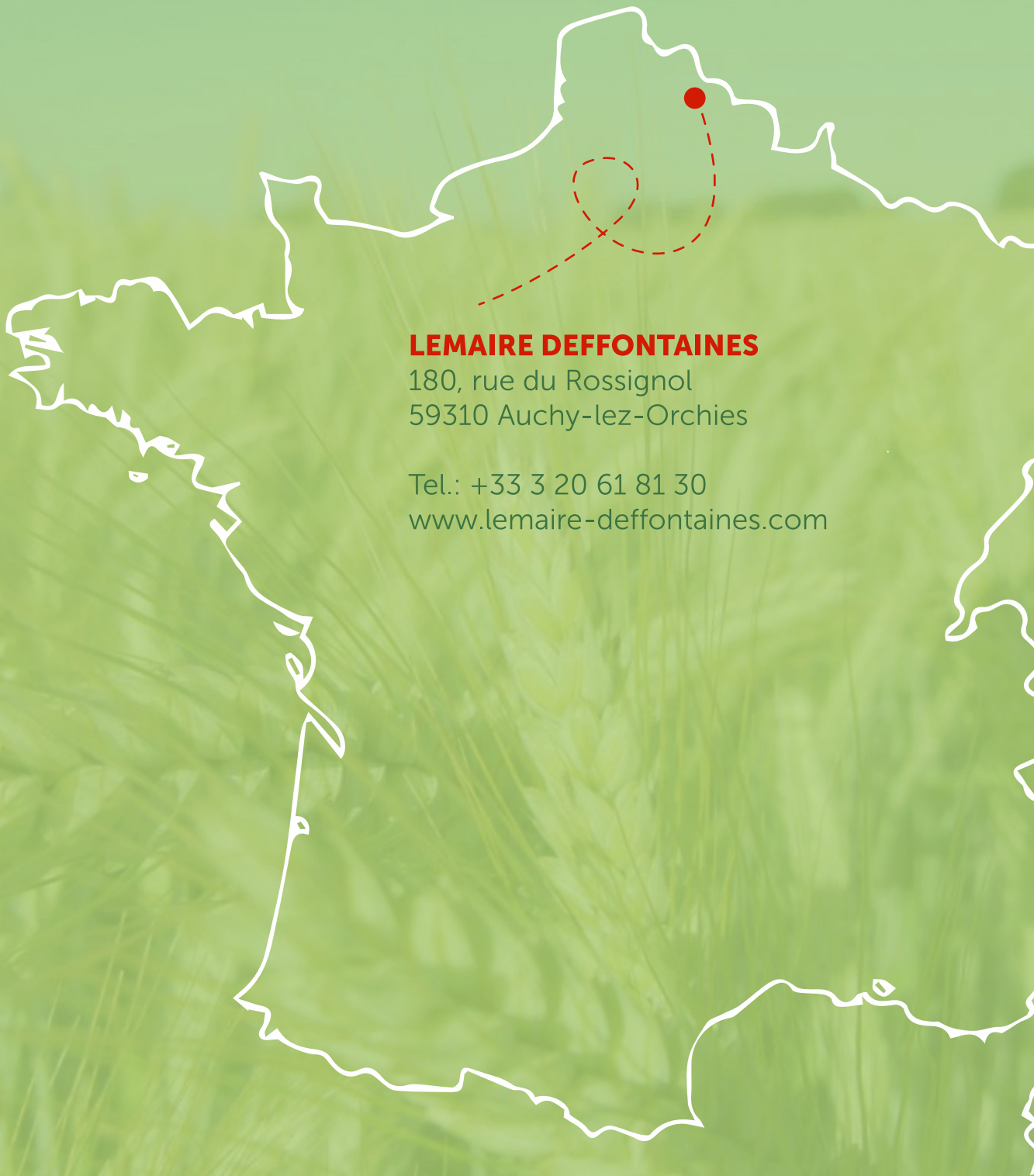
NOTES

Discover our varieties via our website:
lemaire-de□□ontaines.com

SEMENCES
Lemaire Deffontaines
SÉLECTIONNEUR OBTENTEUR



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