

# VARIETAL CATALOGUE

PLANT **BREEDING**  
WRITTEN IN  
OUR DNA

A **MULTI-POTENTIAL**  
PLANT

**INNOVATION,**  
SECURITY AND  
ECONOMIC  
DEVELOPMENT

**SOCIAL AND  
ENVIRONMENTAL**  
RESPONSIBILITY



**HEMP***it*  
Industrial hemp  
seed creator

SEMENCES   
MADE IN   
FRANCE 





A WORD FROM

## THE R&D MANAGER

**HEMP-it**, a breeder and producer of hemp seeds intended for industrial and bio-sourced markets, creates varieties to meet client expectations in France and worldwide.

The existing and emerging hemp markets require varieties with ever-more precise and complex biological and agronomical characteristics to improve.

Research and Development is a strategic element for breeder-specific work: helping to anticipate needs and imagining the varieties for the challenges we may face tomorrow.

This is why HEMP-it invests over 10 % of its turnover in varietal innovation and hemp improvement. Investments which were used to create a Research and Development laboratory. This new activity is driven by a dynamic team and will reinforce, accelerate and enhance the varietal creation of hemp. The R&D programs will enable a better understanding of the biology and genetics of hemp, to grasp the transmission mechanisms of the

biological properties to sustainably boost the genetics of the new, agri-food oriented hemp varieties.

This activity ties in with the HEMP-it culture, a cooperative which is run by farmers who are convinced that hemp is a plant of the future, and genuinely wanting to have it promoted, investing in the innovation whilst ensuring coherent progress in response to the user needs.

The concerns of HEMP-it and its farmers-partners are the challenges for the R&D which will be the driving forces of their success.

**Fabienne Mathis**

**R&D MANAGER**





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## PRESENTATION

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**HEMP***it*  
Industrial hemp  
seed creator

HARVESTS THE NUMEROUS HEMP PROSPECTS

POSSIBLE HEMP USAGES:  
AERONAUTICS, HOUSING, TEXTILES, FOOD, COSMETICS...



## PLANT BREEDING WRITTEN IN OUR DNA

All the administrative, business and operational jobs within the structure are run by young employees, with an equal number of men and women, boasting earth-science literacy to guarantee top-level technical proficiency.

An expertise reinforced by valuable industrial equipment and facilities: production site, seed quality laboratory, R&D centre, first-class scientific partnerships and a specialised network of farmer-producers.



## MULTI-POTENTIAL PLANT

Hemp has many advantages, notably the fact that the whole plant can be used: Hemp seeds, Shives, and fibres. This particularity provides development possibilities in numerous markets: such as for plastic processes (automobile, aeronautics, household-appliance industry, housing), animal and human foodstuffs (oil, flour, seeds...), cosmetics (body and hair care...), textile, building, agronomy and agriculture (plant used for agri-environmental purposes).



## INNOVATION, SECURITY AND ECONOMIC DEVELOPMENT

It handles all the upstream operations related to the innovation and sustainability of the sector through: market monitoring, preservation, selection and varietal innovation, proliferation of G0, G1, G2, approval of genetic work and varieties created for the market, filing PBRs\*, advice and assistance from producers, research centres and other sector-specific players as well as worldwide promotion of French hemp which has been preserving bio-diversity since 1973 through its assignment of managing a DNA database.



## SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

Hemp has high environmental value characteristics: it needs little water and no pesticides to grow and the whole plant can be used. A strong tie exists between these hemp-specific characteristics and the company culture. The latter ensures the preservation of the environment and health: it protects, coordinates and adapts whilst remaining independent.

\*PBR = Plant Breeder's Rights



# PREFACE

In the description of varieties presented here, you will find indications regarding the full-flowering date and the growth-cycle duration. Regardless the variety, the full-flowering date depends on the day-length and consequently varies very little, irrespective of the sowing date.

So, the growing-cycle durations indicated correspond to a sowing date on May 10. Earlier sowings can extend the cycle by a week and inversely, the cycle of later sowings can be shortened by a week.

When growing at other latitudes, the production potentials (straw, seeds and fibres) and the growing times vary, but the other criteria remain unchanged.

The seed quality being sold is also presented. The average germination capacity for the past 10 years (considering that the seed certification standard imposes a minimum of 75% of growth) and the average male purity level for the past 10 years (number of males observed for 100 plants) are indicated.

Last but not least, a calendar will remind you of the main cycles for growing at latitudes equal to Le Mans, using the following key:



**Potential of straw production**  
(1: very low yield – 10: very high yield)

**Potential of fibre production**  
(1: very low yield – 10: very high yield)

**Fibre content**  
(1: not fibre-rich – 10: very fibre-rich)

**Potential of seed production**  
(1: very low yield – 10: very high yield)

**Earliness**  
(1: very early-flowering variety – 10: late-flowering variety)

**TKW (thousand kernel weight)**  
(1: very small seeds – 10: very large seeds)

**THC level**  
(1: no THC – 10: 0.2% THC)

**CBD level**  
(1: no CBD – 10: very rich in CBD)

**Lodging sensitive**  
(1: no lodging – 10: very lodging-sensitive)

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13	.....	Férimon
14	.....	Fédora 17
15	.....	Félina 32

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## INDUSTRIAL VARIETIES

### STRAW ORIENTED VARIETIES

19	.....	Futura 75
20	.....	Dioïca 88

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## PREMIUM VARIETIES

### FIBRE ORIENTED VARIETIES

26	.....	Santhica 27
27	.....	Santhica 70
28	.....	Fibror 79

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## PREMIUM VARIETIES

### SEED ORIENTED VARIETIES

29	.....	Earlina 8 fC
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# APPLICATIONS IN ALL FIELDS

- 01 - BUILDING & CONSTRUCTION
- 02 - RAILWAY INDUSTRY
- 03 - FOOD-PROCESSING INDUSTRY
- 04 - AUTOMOBILE INDUSTRY
- 05 - FASHION
- 06 - GASTRONOMY
- 07 - NUTRITION
- 08 - PERSONAL CARE PRODUCTS

THEY BELIEVE IN US



01



02



03



04

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## FOOD

Hemp seeds have nutritional properties which are still unknown by consumers. To better inform the general public, brands like Sojade, have developed desserts which naturally contain omega 3 and have little saturated fats.

## THE AUTOMOBILE INDUSTRY

It uses reinforced hemp-fibre composite materials for dashboards catering to major French or foreign manufacturers. Lighter than plastics made from petrol, and with the equivalent technical abilities, these bio-sourced plastics have two ecological advantages : a recyclable product and less CO2 emissions.



## FASHION

**Hemp Eyewear innovates by marketing the first glasses in hemp fibres.**

Manufactured in Edinburgh, Scotland, these frames can be recycled and are more resistant and light than those made with carbon fibres.



## COSMETICS

Today there are numerous dermatological product ranges with properties allowing to moisturise, reduce redness associated with eczema and psoriasis. These organic products are made using pure essential oils which contain absolutely zero chemical products.



# INDUSTRIAL VARIETIES

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## IDEAL FOR MANY USAGES

Thanks to their plasticity and hardiness, industrial varieties were chosen as very versatile and therefore suitable for various usage types depending on the latitude at which they are grown:

- Solely the straw market (unthreshed crop) for more northern latitudes,
- Mixed market of straw + seeds (threshed crop) for intermediate latitudes,
- Solely seeds market for southern latitudes.



# INDUSTRIAL VARIETIES

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# SEED OR MIXED-ORIENTED VARIETIES

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A REASSURING CHOICE FOR  
TWO-FOLD ECONOMIC ENHANCEMENT

You can find here all the varieties which can be farmed for seed production  
(threshed crop).

## INDUSTRIAL VARIETIES

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## SEED OR MIXED ORIENTED VARIETIES

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12	.....	Usa	31
13	.....	Férimon	
14	.....	Fédora	17
15	.....	Félina	32





**INDUSTRIAL VARIETIES**  
**SEED OR MIXED**  
**ORIENTED VARIETIES**

# FÉRIMON

MONOECIOUS

**Cycle duration: 129 to 134 days**  
 (for threshed crop at Le Mans latitude)

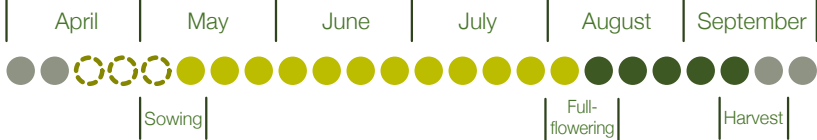
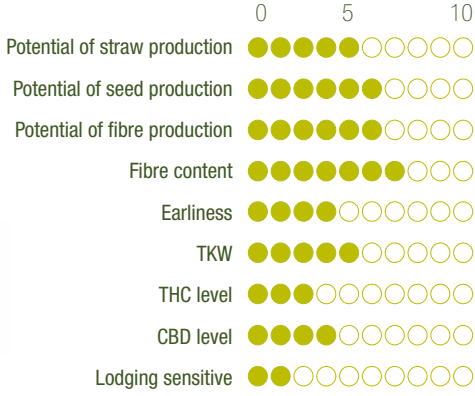
## Seed quality

<b>Germination capacity</b> (average over 10 years): <b>91%</b>	<b>Type:</b> Monoecious
<b>Male purity rate</b> (average over 10 years): <b>0.15%</b>	<b>Percentage:</b> in $\Delta 9\text{-THC}$ < 0.2%

**Earliness:** full-flowering observed on August 4\*  
 (at Le Mans latitude)

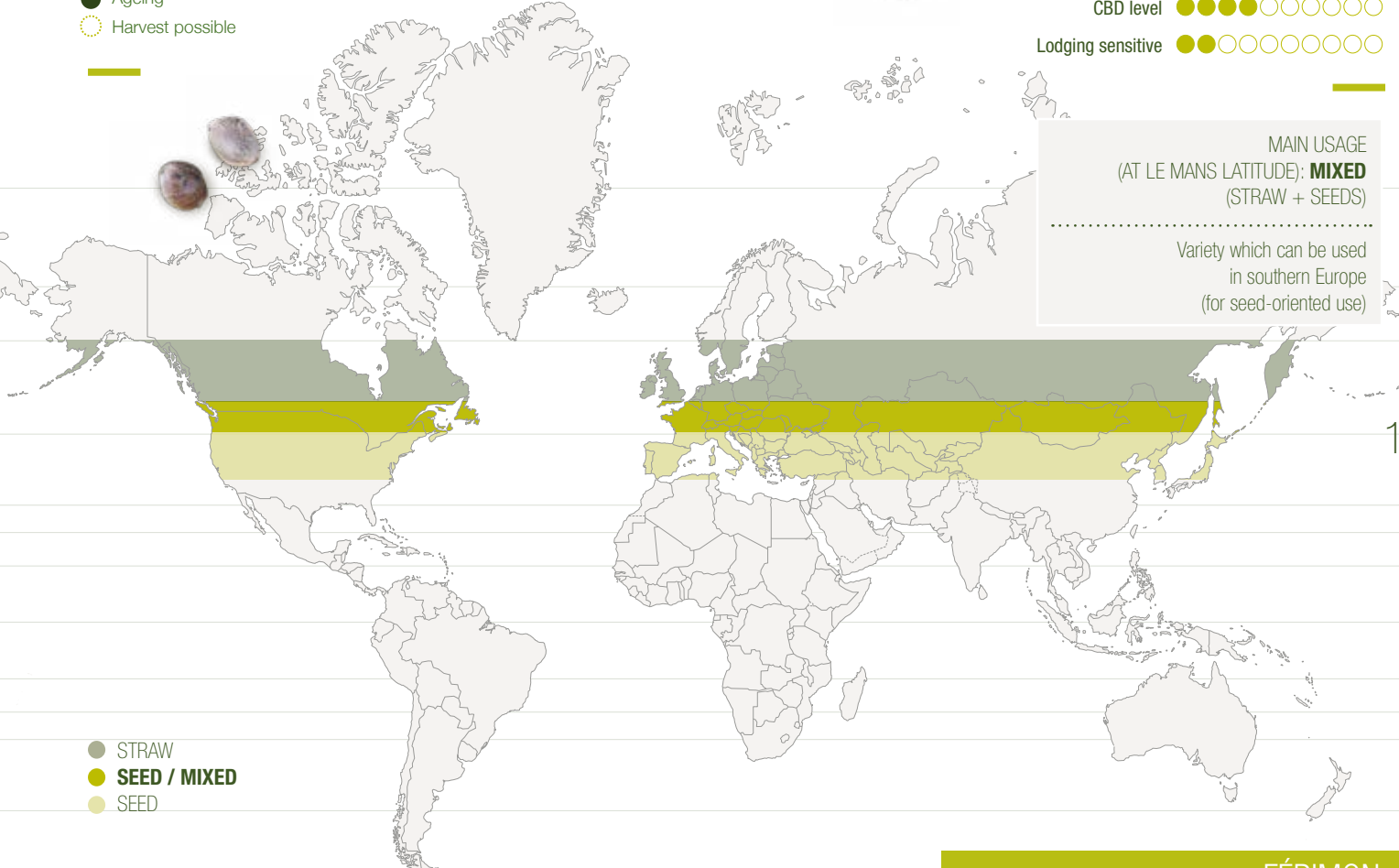
## Varietal characteristics

### Data sheet:



- Sowing possible
- Growth
- Ageing
- Harvest possible

**MAIN USAGE**  
 (AT LE MANS LATITUDE): **MIXED**  
 (STRAW + SEEDS)  
 Variety which can be used  
 in southern Europe  
 (for seed-oriented use)



- STRAW
- SEED / MIXED
- SEED

**INDUSTRIAL VARIETIES**

**SEED OR MIXED  
ORIENTED VARIETIES**

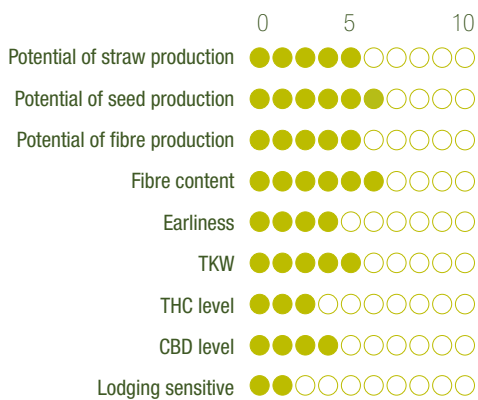
# FÉDORA 17

MONOECIOUS

**Cycle duration: 129 to 134 days**

(for threshed crop at Le Mans latitude)

**Data sheet:**



**MAIN USAGE**

(at Le Mans latitude) : **MIXED** (STRAW + SEEDS)

Variety which can be used in southern Europe (for seed-oriented use)

## Seed quality

**Germination capacity** (average over 10 years): **91.8%**

**Male purity rate** (average over 10 years): **1.74%**

## Varietal characteristics

**Type:** Monoecious

**Percentage:** in Δ9-THC < 0.2%

**Earliness:** full-flowering date observed on August 4\* (at Le Mans latitude)



- Sowing possible
- Growth
- Ageing
- Harvest possible

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- STRAW
- SEED / MIXED
- SEED

FÉDORA 17

\* For sowing undertaken around May 10



**INDUSTRIAL VARIETIES**  
**SEED OR MIXED**  
**ORIENTED VARIETIES**

**FÉLINA 32**

MONOECIOUS

**Cycle duration: 133 to 138 days**

(threshed crop, at Le Mans latitude)

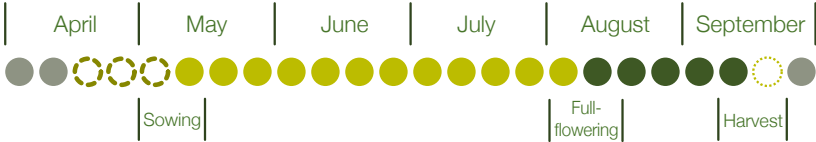
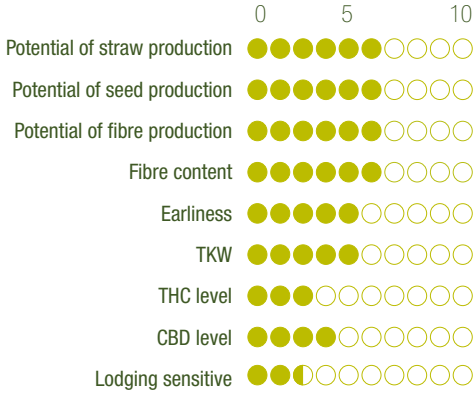
**Seed quality**

**Varietal characteristics**

<b>Germination capacity</b> (average over 10 years): <b>91.5%</b>	<b>Type:</b> Monoecious
<b>Male purity rate</b> (average over 10 years): <b>0.17%</b>	<b>Percentage:</b> in $\Delta 9$ -THC < 0.2%

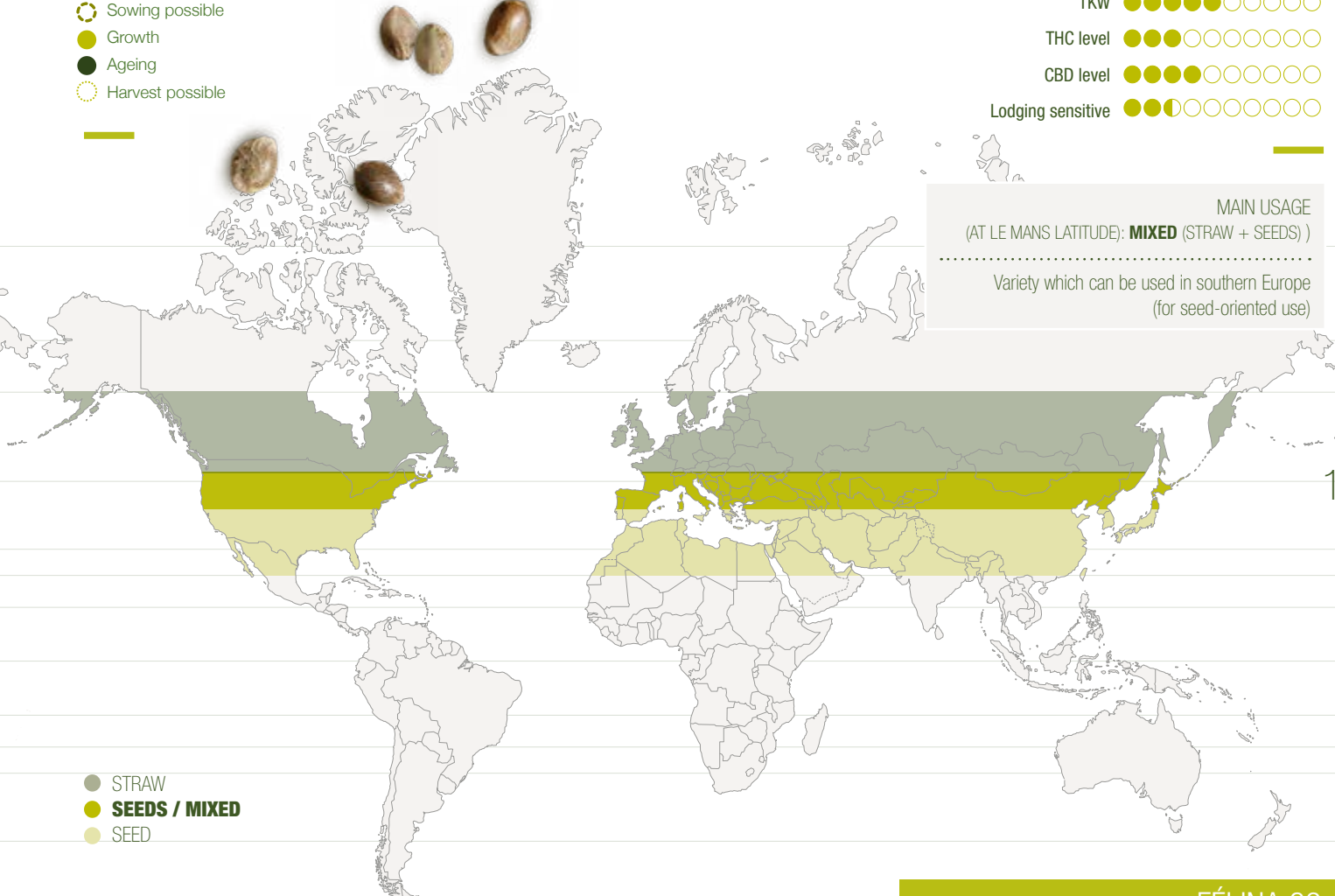
**Average earliness:** full-flowering date observed August 8\*  
 (at Le Mans latitude)

**Data Sheet:**



- Sowing possible
- Growth
- Ageing
- Harvest possible

**MAIN USAGE**  
 (AT LE MANS LATITUDE): **MIXED** (STRAW + SEEDS) )  
 Variety which can be used in southern Europe  
 (for seed-oriented use)

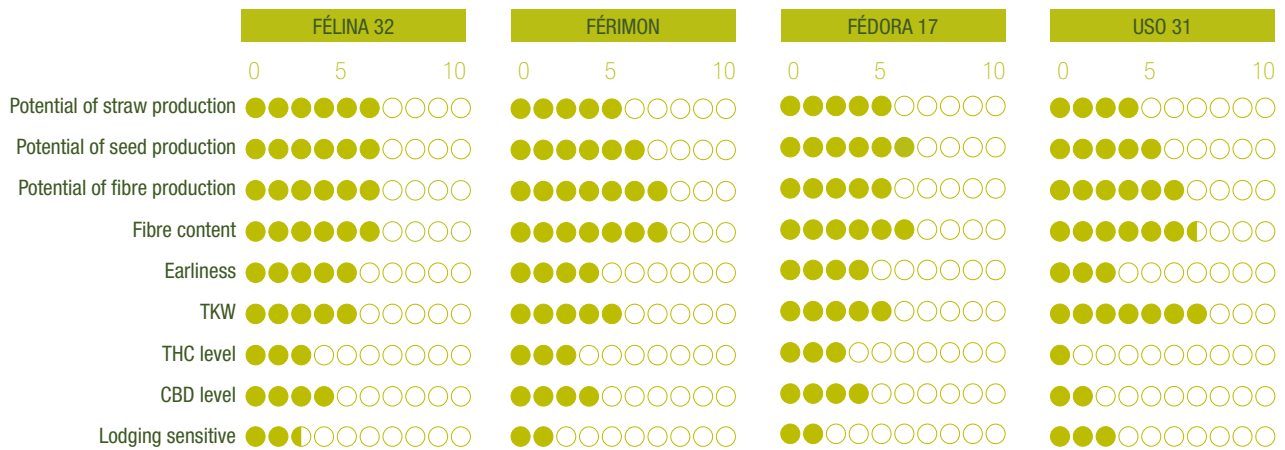


# SUMMARY

## OF INDUSTRIAL VARIETIES



## SEED OR MIXED ORIENTED VARIETIES



MAIN USAGE (at Le Mans latitude):

**MIXED**  
(STRAW + SEEDS)

**MIXED**  
(STRAW + SEEDS)

**MIXED**  
(STRAW + SEEDS)

**SEEDS**







# INDUSTRIAL VARIETIES

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# STRAW ORIENTED VARIETIES

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THE APPROPRIATE CHOICE FOR  
BIOMASS PRODUCTION

Here, you'll find all the varieties which can be grown for producing straw  
(unthreshed crop harvesting).

**INDUSTRIAL VARIETIES**

**STRAW**

**ORIENTED VARIETIES**

19 .....	Futura 75
20 .....	Dioica 88



**INDUSTRIAL VARIETIES**  
**SEED OR MIXED**  
**ORIENTED VARIETIES**

**FUTURA 75**

MONOECIOUS

**Seed quality**

**Varietal characteristics**

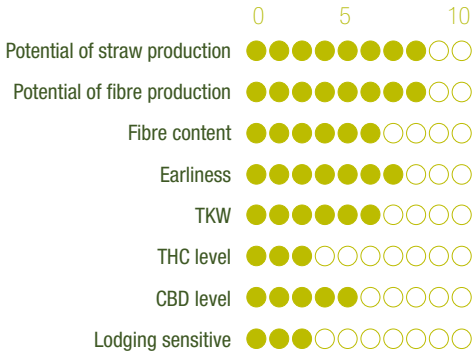
<b>Germination capacity</b> (average over 10 years): <b>89.3%</b>	<b>Type</b> : Monoecious
<b>Male purity rate</b> (average over 10 years): <b>0.17%</b>	<b>Straw potential</b> : high yield
	<b>Percentage</b> : in $\Delta 9$ -THC < 0.2%

**Cycle duration: 97 to 102 days**

(for unthreshed crop, at Le Mans latitude)

**Late-maturing**: full-flowering date observed on August 16\*  
 (at Le Mans latitude)

**Data sheet:**



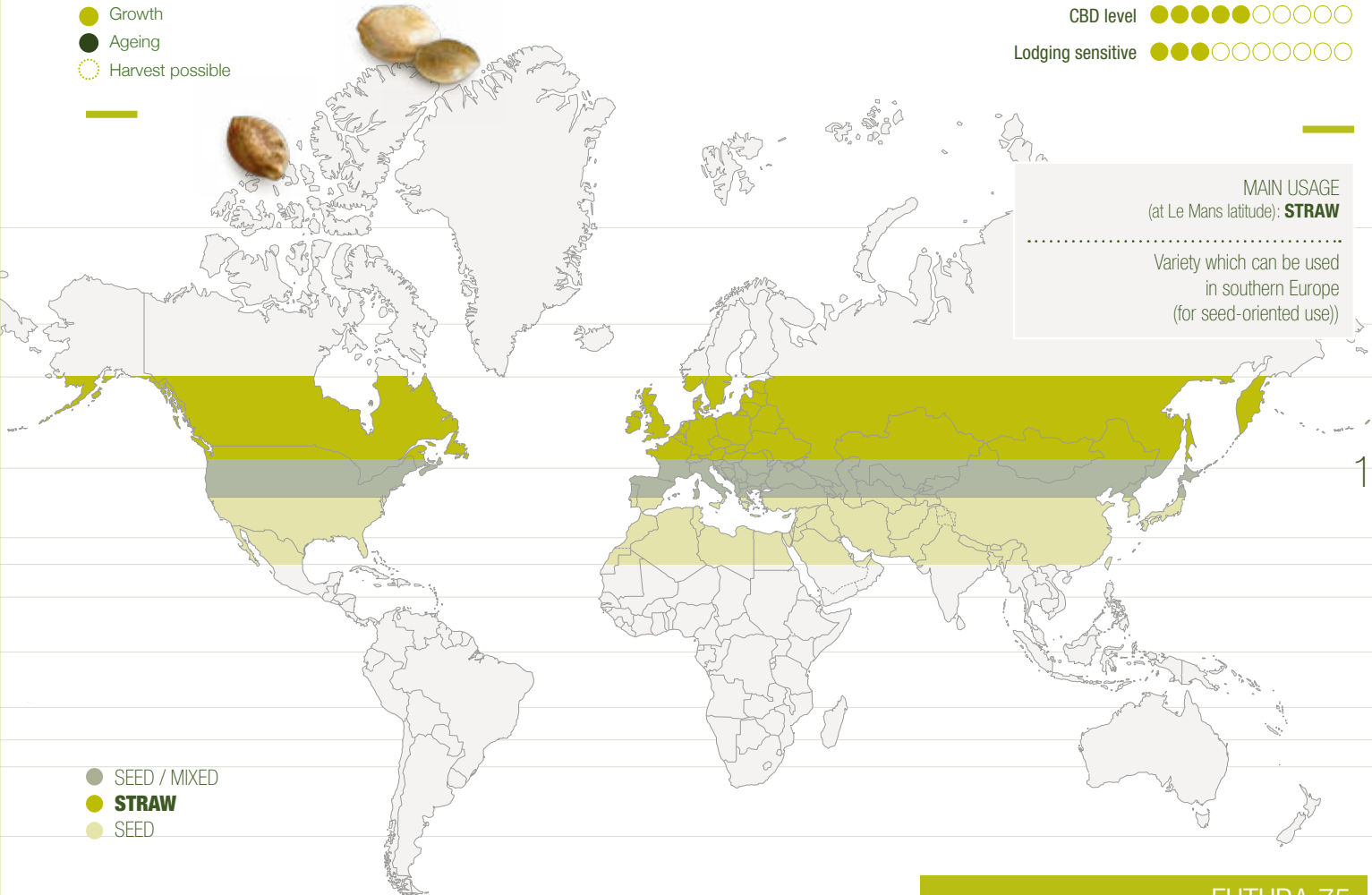
\* For sowing undertaken around May 10



- Sowing possible
- Growth
- Ageing
- Harvest possible



**MAIN USAGE**  
 (at Le Mans latitude): **STRAW**  
 .....  
 Variety which can be used  
 in southern Europe  
 (for seed-oriented use))



- SEED / MIXED
- **STRAW**
- SEED



**INDUSTRIAL VARIETIES**  
**STRAW**  
**ORIENTED VARIETIES**

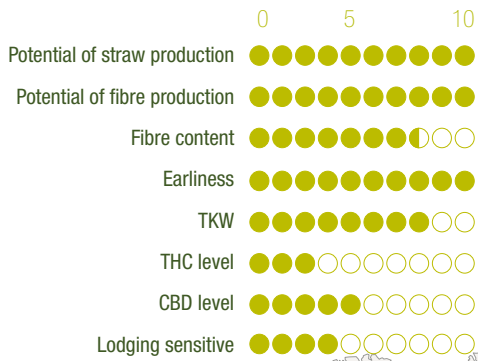
**DIOICA 88**

DIOECIOUS

**Cycle duration: 120 to 125 days**

(unthreshed crop, at Le Mans latitude)

**Data sheet:**



**Seed quality**

**Germination capacity** (average over 10 years): -

**Male purity rate** (average over 10 years): -

**Type:** Dioecious

**Percentage:** in  $\Delta 9$ -THC < 0.2%

**Straw potential:** high yield

**Late-maturing:** full-flowering date observed on September 9\*  
 (at Le Mans latitude)



- Sowing possible
- Growth
- Ageing
- Harvest possible



**MAIN USAGE**  
 (at Le Mans latitude): **STRAW**  
 .....  
 Variety can be used in southern Europe (for seed-oriented use)

- **STRAW**
- SEED / MIXED

**DIOICA 88**

\* For sowing undertaken around May 10

# SUMMARY

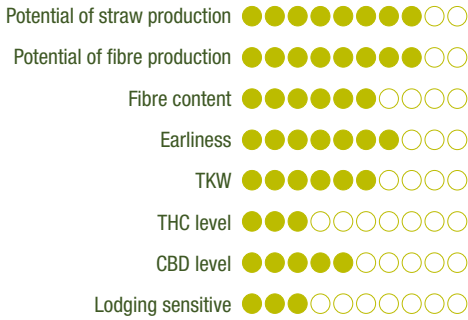
## INDUSTRIAL VARIETIES



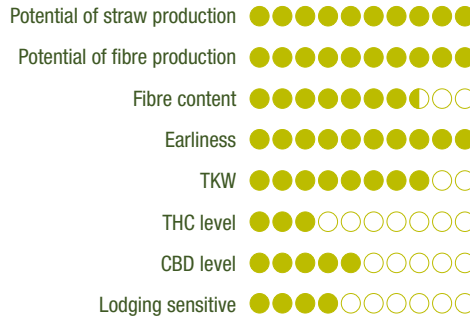
## STRAW ORIENTED

### FUTURA 75

0 5 10



### DIOÏCA 88



MAIN USAGE (at Le Mans latitude):

**STRAW**



**STRAW**

## SEED, STRAW AND MIXED ORIENTED VARIETIES

# WORLDWIDE USAGE

### HEMP-IT VARIETIES EXPORTED.

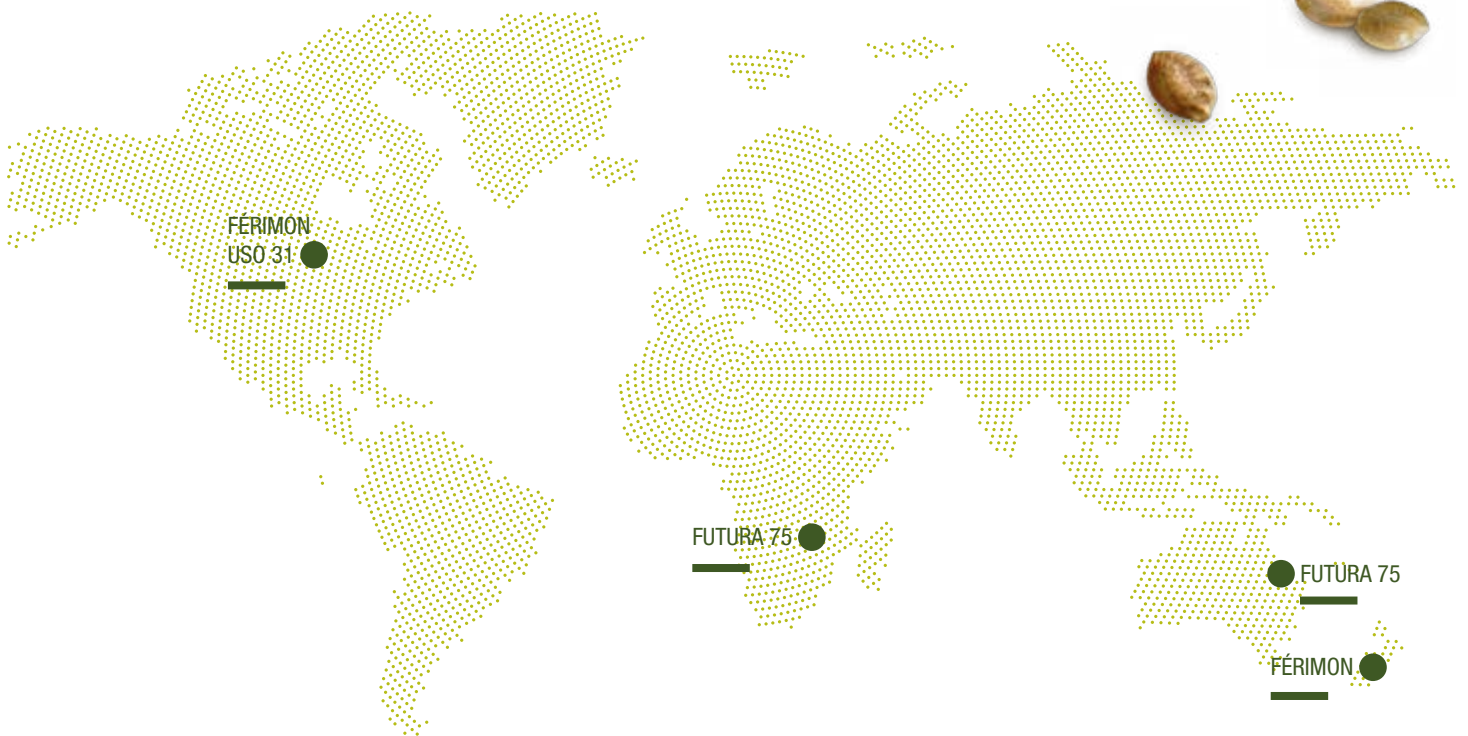
Hemp plasticity generates diverse possible answers depending on the environment, climate and latitude.

**HEMP** varieties have not yet been tested worldwide but if you wish to farm them in a new area, we can assist you to implement varietal trials to thus more accurately estimate their behaviour in your environment. For example, some of our Canadian clients use the FÉRIMON and USO 31 varieties for seed production

In New Zealand, it's also the Ferimon variety which is mostly farmed to produce hemp seeds. The cycle durations are fairly close to what has been observed in France, but the cycles are undertaken out-of-season (sowing during the month of November to be harvested in March).

**In some areas, thanks to the climate and favourable photoperiod, it is possible to do several cycles in a year.**

Indeed, in Queensland, Australia, FUTURA 75 can be farmed for the production of hemp seeds, and it's possible to undertake 2 or even 3 cycles throughout the year outside. This same pattern was observed in Malawi.






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## OUR PRODUCERS

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The **HEMPid** cooperative production area has always been for producing hemp. Its proximity with the Loire and its river-borne deposit make this a perfect region for producing hemp.

It's therefore quite natural that the production of hemp develops in this area which is very focused on producing specialised crops (notably seeds). The demanding and technical nature of our producers make them autonomous for roguing, allowing not only to harvest the amount requested, but also to provide outstanding seeds.

### SOME FIGURES:

- Production surface area in 2018: 1500 hectares
- 130 cooperative producers
- Over 10 hectares of hems seeds per farm.
- 200 seasonal workers trained for roguing throughout the whole area.
- 13 specially-designed hemp combine harvesters for 2 months.
- Area-specific harvesting and drying capacity: 100 tons/day.





# PREMIUM VARIETIES

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IDEAL FOR PROCESSING  
MANUFACTURERS

Premium varieties are chosen to meet very specific uses and their full potential is only revealed if given very special attention. In order to fully benefit from the high variety-specific standards when growing, we urge you to closely follow our farming recommendations.





# PREMIUM VARIETIES

## FIBRE OR SEED ORIENTED

Here, you'll find all the varieties which can be grown for producing fibre (unthreshed crop harvesting) or for producing seeds (threshed crop).

### PREMIUM VARIETIES

#### FIBRE

#### ORIENTED VARIETIES

26 .....	Santhica 27
27 .....	Santhica 70
28 .....	Fibror 79

### PREMIUM VARIETIES

#### SEED

#### ORIENTED VARIETIES

29 .....	Earlina 8 fC
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PREMIUM VARIETIES

FIBRE ORIENTED VARIETIES

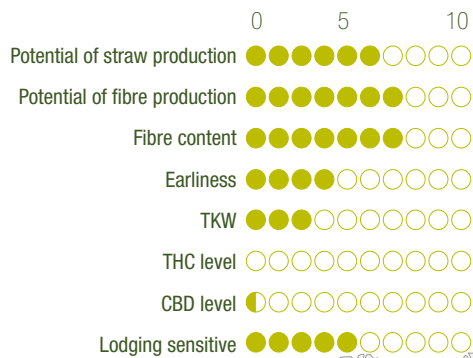
# SANTHICA 27

MONOECIOUS

**Cycle duration: 90 to 95 days**

(for unthreshed crop, at Le Mans latitude)

**Data sheet:**



## Seed quality

**Germination capacity** (average over 10 years): **89.6%**

**Male purity rate** (average over 10 years): **0.06%**

## Varietal characteristics

**Type:** monoecious

**Percentage:** THC 0%

**Fibre potential:** Rich

**CBD:** Very low

**Average early maturing:** full-flowering date observed on August 11\* (at Le Mans latitude)



\* for sowing undertaken around May 10

- Sowing possible
- Growth
- Ageing
- Harvest possible

## FARMING RECOMMENDATIONS:

To get the best out of this fibre-rich content variety, it is recommended to not sow at a density less than 60kg/ha (which is around 3,500,000 and 4,000,000 plants per hectare). For optimal fibre quality, we recommend a harvest between the full-flowering and end-flowering phases (less secondary fibre).

**MAIN USAGE: FIBRE.** Threshed crop harvest possible (40 days more), to the detriment of the fibre quality.

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● FIBRE

SANTHICA 27



**PREMIUM VARIETIES**  
**FIBRE**  
**ORIENTED VARIETIES**

**SANTHICA 70**

MONOECIOUS

**Cycle duration: 97 to 102 days**

(unthreshed crop, at Le Mans latitude)

**Seed quality**

<b>Germination capacity</b> (average over 10 years): -
<b>Male purity rate</b> (average over 10 years): -

**Varietal characteristics**

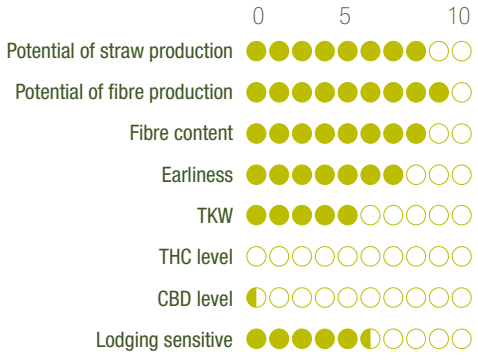
<b>Type:</b> Monoecious
<b>Fibre potential:</b> Rich
<b>Percentage:</b> THC 0%
<b>CBD:</b> Very low

**Late maturing: full-flowering date observed on August 17\***  
 (at Le Mans latitude)



- Sowing possible
- Growth
- Ageing
- Harvest possible

**Data sheet:**



**FARMING RECOMMENDATIONS :**

To get the best out of this fibre-rich content variety, it is recommended to not sow at a density less than 60kg/ha (which is around 3,500,000 and 4,000,000 plants/hectare). For optimal fibre quality, we recommend a harvest between the full-flowering and end-flowering phases (less secondary fibre).

**MAIN USAGE: FIBRE.**  
 Variety which can be adapted for use in southern Europe (for fibre-oriented use).



\* Pour des semis réalisés aux alentours du 10 mai



**PREMIUM VARIETIES**

**FIBRE ORIENTED VARIETIES**

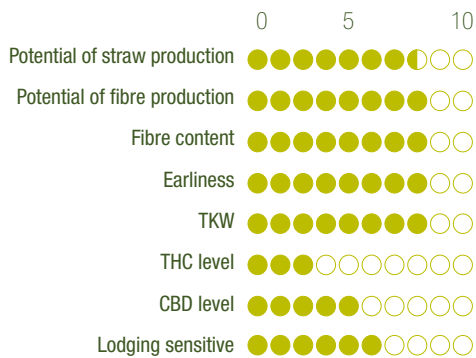
# FIBROR 79

MONOECIOUS

**Cycle duration: 101 to 106 days**

(unthreshed crop, at Mans latitude)

**Data sheet:**



**Seed quality**

**Germination capacity** (average over 10 years): -

**Male purity rate** (average over 10 years): -

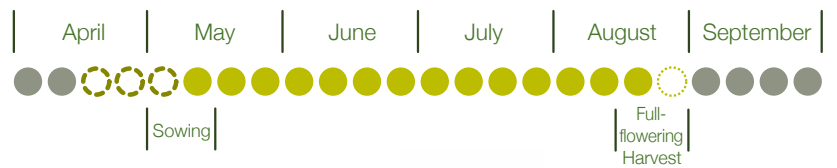
**Varietal characteristics**

**Type:** Monoecious

**Percentage:** in  $\Delta 9$ -THC < 0.2%

**Fibre potential:** Rich

**Late maturing:** full-flowering date observed on August 22\* (at Le Mans latitude)



\* For sowing undertaken around May 10

- Sowing possible
- Growth
- Ageing
- Harvest possible

**FARMING RECOMMENDATIONS:**

To get the best from this fibre-rich content variety, it is recommended to sow seeds at a density between 70 and 80 kg/ha (which is about 3,500,000 and 4,000,000 plants/hectare). The variety is naturally yellow, therefore, providing additional nitrogen to compensate this characteristic is highly discouraged to not counterbalance the genetic effect. For optimal fibre quality, we recommend a harvest between the full-flowering and end-flowering phases, including in the most northern regions.

**MAIN USAGE: FIBRE.**

Variety which can be adapted to be used in southern Europe (for fibre-oriented use)

28

● FIBRE

NEW IN  
2019

PREMIUM VARIETIES

SEED  
ORIENTED VARIETIES

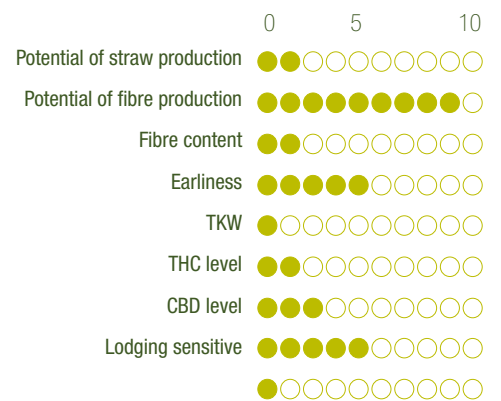
# EARLINA 8 FC

MONOECIOUS

Cycle duration\*: 115 to 120 days

(threshed crop, at Le Mans latitude)

### Data sheet:



## Seed quality

Germination capacity (average over 10 years): -  
Male purity rate (average over 10 years): -

## Varietal characteristics

Type : Monoecious  
Percentage: in  $\Delta 9$ -THC < 0.2%

Very-early maturing: full-flowering date observed on July 20\*  
(at Le Mans latitude)



- Sowing possible
- Growth
- Ageing
- Harvest possible

### FARMING RECOMMENDATIONS:

To facilitate the seed yield expression of this variety, it is not necessary to sow with a high density. This can be between 25 and 30 kg/ha (which is about 2,000,000 and 2,500,000 plants/hectare).

MAIN USAGE:  
SEEDS.

\* For sowing undertaken around May 10

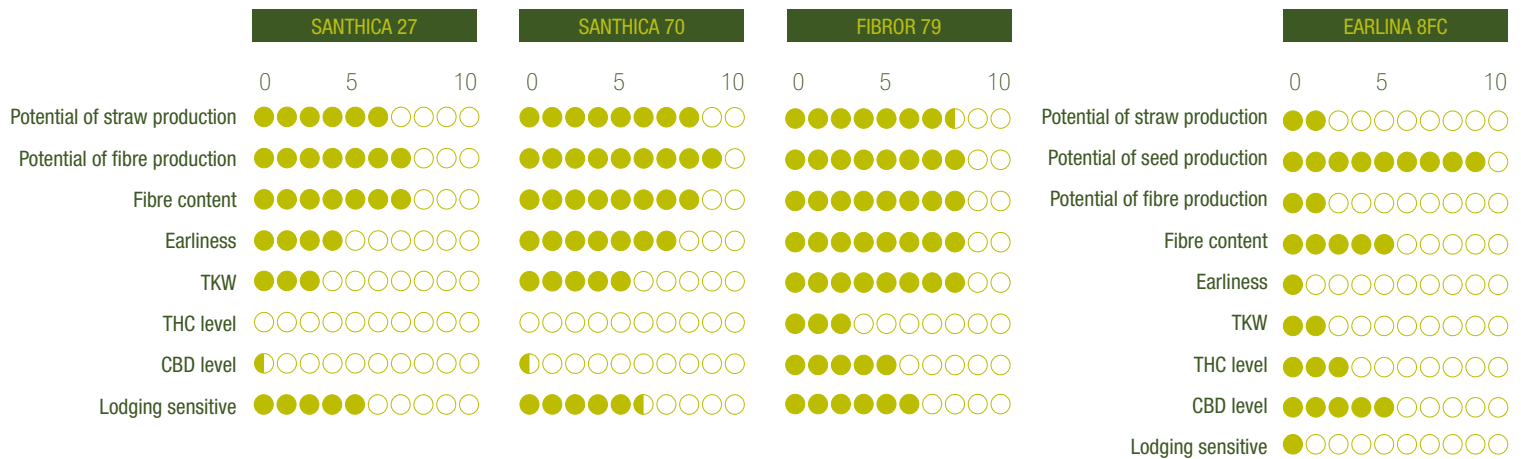


# SUMMARY

## OF PREMIUM VARIETIES



## SEED AND FIBRE ORIENTED VARIETIES



MAIN USAGE :

**FIBRES**



**FIBRES**

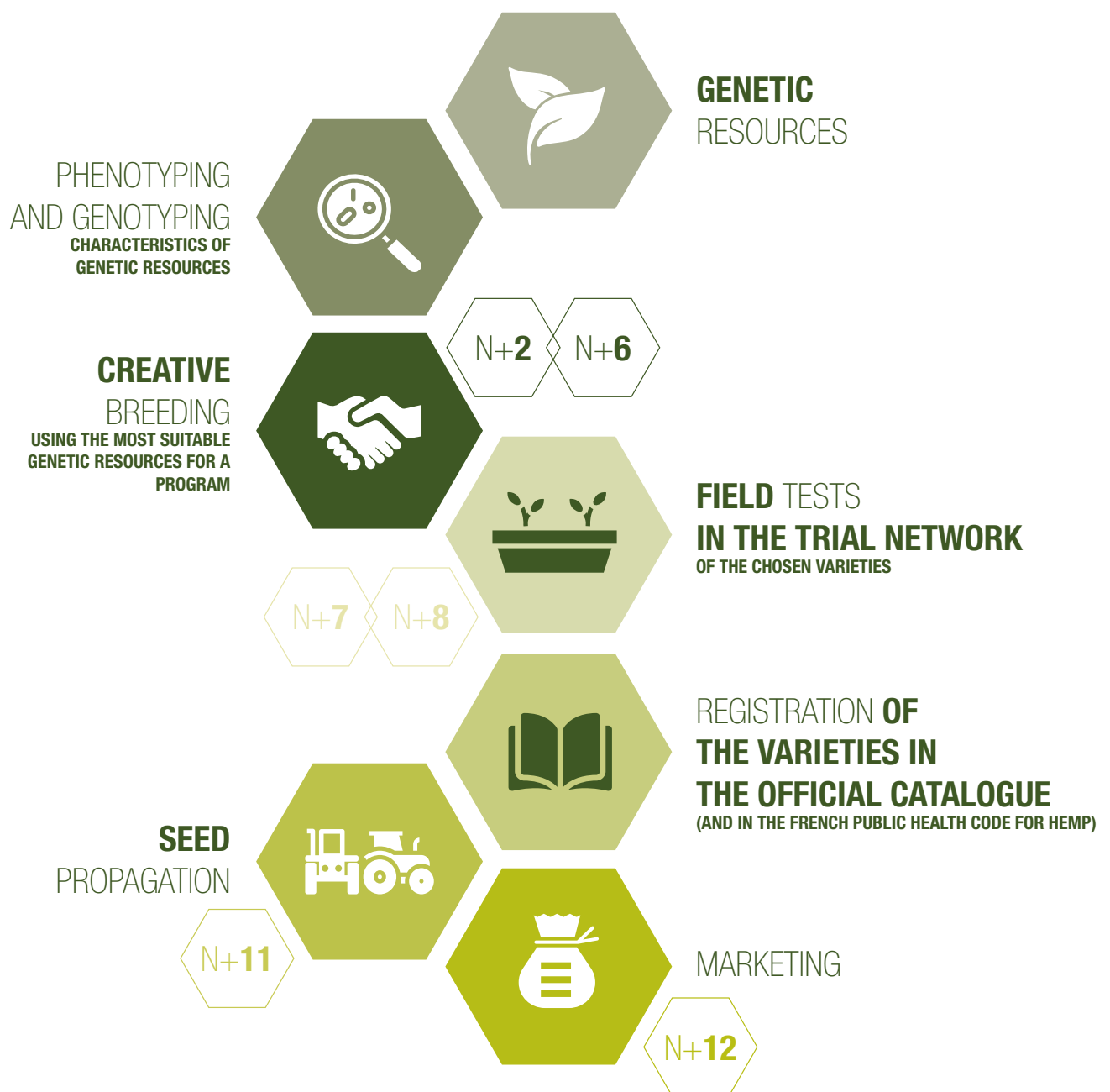


**FIBRES**



**SEEDS**

# PLANT BREEDING





# AN INDUSTRIAL PRODUCTION SITE

A COOPERATIVE BOASTING EFFICIENT INDUSTRIAL EQUIPMENT

Processing, storage functions and shipping solutions are at the heart of **HEMP** missions as they are essential to guarantee quality service.

- Drying
- Revolving straw remover
- Sorting using a cleaner-separator
- Sorting using a densimetric table
- Storage in cold room
- Seed analysis
- Shipping

The production site is **nearly 8000m<sup>2</sup>** and equipped with a set of specific machines allowing the smooth running of each production step and guaranteeing volumes and short deadlines







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## THE SEED PRODUCTION FACILITY

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HAS RECENTLY BEEN EQUIPPED WITH AN  
INTERNAL SEED ANALYSIS LABORATORY

In our endeavour to constantly improve our seeds, we wanted to **develop the skills of our agents** to directly **analyse our producer-specific batches on our site**.

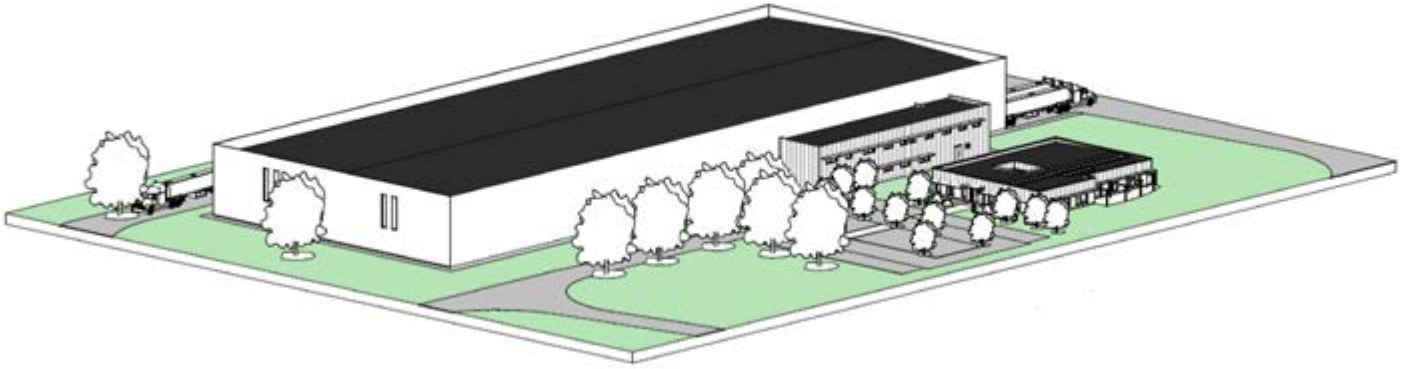
**These analyses allow us to manage the production facility, providing a unparalleled quality** in the supply of hemp crops on an international level.

With this expertise we can now be diligent regarding the following analyses:

- **Batch approvals using micro-cleaning**
- **Germination capacity**
- **Purity, enumeration**

There are thus over 600 batches which are analysed every year in our laboratory.





# OUR VISION FOR HEMP-IT 2021

Highly-aware of the social and environmental concerns of tomorrow, the **HEMP** cooperative wanted to lead the way. We would like to participate in promoting bio-sourced hemp construction and to have our employees, clients and farmers be the first beneficiaries. We have decided to invest in a modern, welcoming area where it will make working-together lots of fun. A cheerful place to consolidate our collective intelligence, pool our means, develop future talents and imagine a hemp-filled future!

We have entrusted this assignment to **C ^ N**, a Nantes-based engineering firm using bio-sourced materials, which knows how to most appropriately use hemp to further our development.

Yes, we **C ^ N**... so just **HEMP**!!!!



Bio-sourced materials decrease the environmental impact of construction and guarantee excellent sanitary and thermal quality for users. These are renewable materials which, for the most part, represent genuine carbon absorbers, contributing to keeping our planet in balance.



## C ^ N

Thanks to the double-competence of engineers and architects (leading Civil Engineering School and the Paris La Villette School of Architecture), and to various experiences in the field of construction using bio-sourced materials, **C ^ N** aims to promote responsible, fully-mastered building, through the various projects it undertakes.

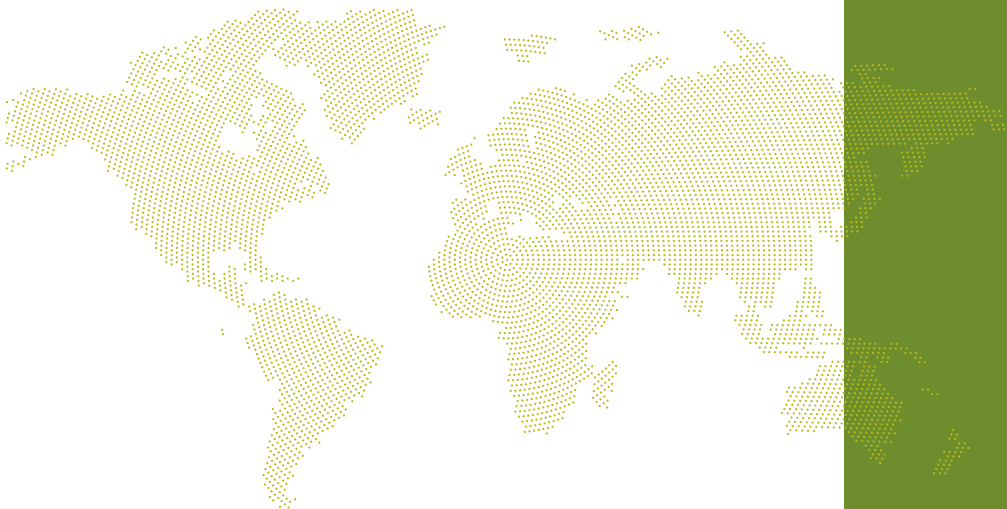




www.hemp-it.coop



SEED OFFERS  
MADE IN FRANCE  
ADAPTED TO THE WORLD



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SEMENCES   
MADE IN   
FRANCE 