

Fresh  
market

# Harvest our experience

Our offer in pea, bean, and sweet corn



syngenta®



TM



# Dedicated to fresh

Keeping up with consumer trends. Growing crops that perform well in the field, the packaging plant and the supermarket. Competing on a global scale. The fresh vegetable industry is full of challenges. At Syngenta, we apply our experience and know-how to help our customers succeed, for this year's harvest and for the years ahead.

It all begins with the essentials:

- Varieties with proven consumer appeal that are easy to grow, harvest and package
- Continuous innovation in shapes, sizes, tastes, colours and desirable traits, for crops which are the 'pick of the crop'
- Reliable supply of high quality seed, and partnerships at all levels from day-to-day growing to worldwide product development

## The strength of a leader...

You can depend on Syngenta, because we combine our strength as one of the world's foremost agribusinesses with the commitment of a specialist in fresh crops. What's more, you can come to us for seeds and crop solutions. Whether you are a grower, integrated producer or seed distributor, Syngenta is your "one stop shop" for complete solutions.

## ... the commitment of a specialist

Our commitment means we are a partner for the long-term in this constantly evolving market. Through close relationships throughout the value chain and extensive consumer research, we understand the industry's needs and put them at the heart of our breeding programs.

Our strength allows us to act on a global scale, with screening and trials in Europe, Africa and the Middle East. So you can count on Syngenta for varieties suited to the demands of your global customers, which are also fully adapted to your local conditions.

# Shelling pea

## Somerwood

This mid season variety has excellent stress tolerance and the large pods with high ovule count make it well suited to fresh market use.



### Advantages

- Large pod type
- High ovule count
- Constant high yield
- Strong vine, under stressful conditions

### Main agronomical characteristics

• Plant type	: standard leaf
• Average nr. of seeds per pod	: 9
• Average nodes till 1 <sup>st</sup> flowering	: 14
• Plant height	: 80-90 cm
• Heat units	: 870°C
• Seed colour	: dark green
• Pod shape	: pointed
• Pods per axil	: 2
• TSW	: 210 g
• IR	: Ep / Fop: 1

Grading	7,5 - 8,75 mm	8,75 - 10 mm	> 10 mm
TM 120	5	45	50

## Strong worldwide

Syngenta is one of the world's leading agri-companies with more than 25,000 employees in over 90 countries dedicated to our purpose: Bringing plant potential to life. Through world-class science, global research and commitment to our customers we help to increase crop productivity in growing regions worldwide, with a high level of investment in crops destined for the fresh market.



## Mucio

This large podded main crop variety performs well under stressful circumstances and is well adapted to hotter climates.



### Advantages

- Large pod type
- High ovule count
- Constant high yield
- Strong root system
- Well adapted to stressful conditions

### Main agronomical characteristics

• Plant type	: standard leaf
• Average nr. of seeds per pod	: 9
• Average nodes till 1 <sup>st</sup> flowering	: 14
• Plant height	: 65-70 cm
• Heat units	: 825°C
• Seed colour	: medium green
• Pod shape	: pointed
• Pods per axil	: 2
• TSW	: 210 g
• HR	: Ep
• IR	: Fop: 1

Grading	7,5 - 8,75 mm	8,75 - 10 mm	> 10 mm
TM 120	5	60	35

## Grundy

A large podded main crop variety which is strong against root rot and highly resistant against powdery mildew.



### Advantages

- Large pod type
- High ovule count
- Constant high yield
- Strong against root rot
- Good disease package

### Main agronomical characteristics

• Plant type	: standard leaf
• Average nr. of seeds per pod	: 9
• Average nodes till 1 <sup>st</sup> flowering	: 16
• Plant height	: 70-80 cm
• Heat units	: 889°C
• Seed colour	: dark green
• Pod shape	: pointed
• Pods per axil	: 2
• TSW	: 180 g
• HR	: Ep / Fop: 1

Grading	7,5 - 8,75 mm	8,75 - 10 mm	> 10 mm
TM 120	15	65	20

# Snap pea

## Sugar Flash

A very productive mid-season variety with improved heat tolerance.



### Advantages

- Uniform attractive pod size
- Strong plant with upright bush
- High yield
- Improved heat tolerance
- Sugar Boys type

### Main agronomical characteristics

• Earliness	: medium late
• Plant type	: standard leaf
• Pod type	: stringless
• Pod shape	: blunt
• Pod colour	: green
• Average pod size	: 7 cm
• Average nodes till 1 <sup>st</sup> flowering	: 14
• Average plant height	: 80-90 cm
• Heat units	: 870°C
• Average nr. of days to maturity	: 70
• TSW	: 200 g
• HR	: Ep
• IR	: Fop: 1

## Sugar Heart

A stringless edible podded variety with improved heat tolerance.



### Advantages

- Uniform attractive pod size
- Strong plant with upright bush
- High yield
- Improved heat tolerance
- Sugar Prince type

### Main agronomical characteristics

• Earliness	: medium late
• Plant type	: standard leaf
• Pod type	: stringless
• Pod shape	: blunt
• Pod colour	: medium green
• Average pod size	: 8 cm
• Average nodes till 1 <sup>st</sup> flowering	: 15
• Average plant height	: 71 cm
• Heat units	: 900°C
• Average nr. of days to maturity	: 70
• TSW	: 200 g
• HR	: Ep
• IR	: Fop: 1

## Sugar Lady

A semi leafless variety with stringless fleshy round edible pods and attractive appearance.



### Advantages

- Uniform attractive pod size
- Fits perfectly for fresh market
- High yield
- Sugar Lace type

### Main agronomical characteristics

• Earliness	: medium late
• Plant type	: semi leafless
• Pod type	: stringless
• Pod shape	: blunt
• Pod colour	: medium green
• Average pod size	: 8 cm
• Average nodes till 1 <sup>st</sup> flowering	: 16
• Average plant height	: 75 cm
• Heat units	: 950°C
• Average nr. of days to maturity	: 75
• TSW	: 300 g
• HR	: Fop: 1
• IR	: Ep

## Snow Wind

A semi leafless snow pea variety with outstanding yield and quality.



### Advantages

- Straight dark green pods
- Semi stringless

### Main agronomical characteristics

• Plant type	: Semi leafless
• Pods	: Straight, flat and dark green
• Average pod size	: 9 cm
• Average nodes till 1 <sup>st</sup> flowering	: 16
• Heat units	: 920°C
• Average nr. of days to maturity	: 72
• TSW	: 300 g
• IR	: Ep / Fop: 1

## Snow Green

This standard leaf snow pea is the reference variety for the export market.



### Advantages

- Uniform attractive dark green pods
- Slow seed development
- Semi stringless

### Main agronomical characteristics

• Plant type	: standard leaf
• Pods	: straight, dark green
• Average pod size	: 9 cm
• Average nodes till 1 <sup>st</sup> flowering	: 16
• Heat units	: 920°C
• Average nr. of days to maturity	: 72
• TSW	: 300 g
• HR	: Fop 5, 6 / BYMV / BLRV / PSbMV
• IR	: Ep

## Strength in genetics

Syngenta is a global leader in research and development in plants and crop protection. We have extensive in-house expertise and a world-class pool of genetic material. Syngenta also has one of the world's largest platforms for plant development based on molecular markers. This helps speed development of varieties with desirable traits. These range from consumer benefits to improved handling characteristics and longer shelf life.



# Varieties with proven consumer appeal

Consumers and retailers are constantly looking for innovation – greater choice, more convenience, different tastes, healthier options, smaller products, eye-catching colours, shapes, etc.

With over 20 nurseries around the world, Syngenta has the industry's largest breeding network to develop varieties that ensure you can stay ahead. Besides agronomical performance, they are bred for market needs and profitable growing.

You will find an array of varieties with commercially important characteristics – from stringless snaps and top-tasting sweet corn to premium beans and baby corn.

## Innovations for a changing world

As a committed specialist in fresh, Syngenta uses its strategic knowledge, partnerships and dedicated research to continuously anticipate your future needs.

That includes working with growers, integrated producers and retailers on product development and trials. We also conduct extensive market research, and run unique online consumer panels in several countries to gather direct feedback on the products we're creating.

This lets us incorporate consumer preferences into added-value products that give you a competitive edge all along the value chain in fresh.



# Bean

## Serengeti

A rust resistant very fine type with beautiful pods and high yield potential. Is perfect for the export market.



### Advantages

- Rust resistance
- Uniform, very attractive pods
- Good shelf life
- High yield potential
- Strong plant
- Vegetative plant

### Main agronomical characteristics

• Pod length	: 14-16 cm
• Pod thickness	: 6-8 mm
• Pod shape	: circular and straight
• Pod colour	: uniform dark green glossy
• Plant habit	: medium erect bush
• Average plant height	: medium high
• Heat units	: 700 °C
• Average nr. of days to maturity	: 72
• TSW	: 210 g
• HR	: Cl: 1 / BCMV / Ua (Ur4+5)

## Konza

This rust resistant, very fine, late variety fits perfectly the export market requirements.



### Advantages

- Rust resistance
- Uniform, very attractive pods
- Good shelf life
- High yield potential
- Good disease package

### Main agronomical characteristics

• Pod length	: 15-17 cm
• Pod thickness	: 7-9 mm
• Pod shape	: round
• Pod colour	: uniform dark green glossy
• Plant habit	: medium erect bush
• Average plant height	: medium high
• Heat units	: 700 °C
• Average nr. of days to maturity	: 72
• TSW	: 230 g
• HR	: Cl:1 / BCMV / Ua (Ur5)

## Carson

A productive fine wax bean of lustrous yellow pods with high quality and excellent flavour.



### Advantages

- Attractive uniform yellow pods
- High yield potential

### Main agronomical characteristics

• Pod length	: 13-14 cm
• Pod thickness	: 9-10,5 mm
• Pod shape	: round
• Pod colour	: uniform yellow
• Plant habit	: erect bush
• Average plant height	: medium high
• Average nr. of days to maturity	: 53
• TSW	: 230 g
• HR	: Cl: 1 / BCMV
• IR	: Cl / Pss

## Quality from the ground up

We couple our strength in innovation, with our commitment to reliability. That means living up to our promises and providing high quality seeds that deliver high, predictable yields.

As a global company, we conduct trials in all kinds of vegetable growing conditions. So you have a wide choice of varieties suited to your local soils and climate. You can count on us for varieties that ensure vigorous growth from healthy plants, for optimal output per hectare.

As part of this, we're constantly working to deliver advances against pests like thrips, as well as diseases like mildew, rust, fusarium and sclerotinia through resistant varieties and new plant architectures.

We also help you address evolving industry challenges from drought to the demand for environmentally-friendly products. Our worldwide agronomic experience means we can apply genetic know-how from one region to solve challenges in another – ensuring performance and productivity for all our customers.

### A matter of trust

For us, quality in every aspect of our seeds and varieties is fundamental. Our seeds meet rigorous quality protocols, as well as high germination norms.

Transparency is also one of our key values. Syngenta is ISO certified (ISO9001), so our internal processes are open to external auditing. And we are committed to being open and honest in our communications with you too – you can trust us to keep you informed on issues that matter to you like seed availability and supply.

# Baby corn

## SG17 super

This hybrid baby corn has a long shelf life and fantastic yield potential.



### Advantages

- Long shelf life
- High standard and uniform cob shape
- High yield potential
- Ideal for fresh pack and processing
- Male sterile, so no need to detassel
- Fine ovaries
- Easy to dehusk
- Average of 3 cobs per plant

### Main agronomical characteristics

• Earliness	: harvest after 52-64 days
• Ear shape	: conical
• Ear size	: > 11 cm
• Ear diameter	: 2 cm
• Colour of ovaries	: pale yellow
• Yield	: yield potential about 11.2 to 13.7 tons/Ha
• Dehusk weight	: 1.6 - 1.8 tons/Ha
• Average plant height	: medium tall, 180 cm

## SG18

This hybrid baby corn has excellent shelf life and high yield potential. Is well suited to fresh and processing markets.



### Advantages

- Long shelf life
- Uniform conical cob shape
- High yield potential
- Ideal for fresh pack and processing
- Male sterile, so no need to detassel
- Easy to dehusk
- Average of 2-3 cobs per plant

### Main agronomical characteristics

• Earliness	: harvest after 52-59 days
• Ear shape	: conical
• Ear size	: > 11 cm
• Ear diameter	: 2 cm
• Colour of ovaries	: pale yellow
• Yield	: yield potential about 11.3 to 13.8 tons/Ha
• Dehusk weight	: 1.8 - 2.2 tons/Ha
• Average plant height	: medium tall, 175 cm

# Sweet corn



## Excelis® A passport for excellence

Excelis is our commercial offer for sweet corn seeds.

Syngenta Seeds aims to provide the whole chain requirements from the processors to the consumer.

All our varieties are subject to consumer acceptance and demand.

### Therefore :

- We sell only non-GM varieties in Europe, Middle East and Africa
- We demonstrate due diligence with preventive and corrective actions to give our sweet corn varieties an optimal non-GM seed purity.
- Excelis® provides a new service.



**Concerning non-GM seed purity, Syngenta Seeds – Vegetables, will deliver technically achievable, feasible and legally sustainable norms.**

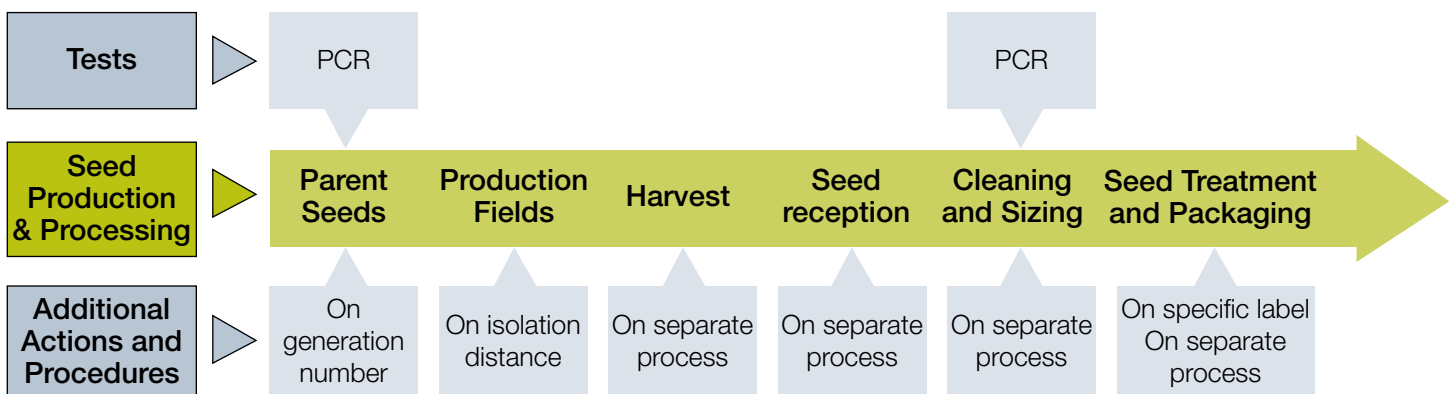
**The non-GM seed purity is an additional quality criteria** to our current quality specifications.

Where are the sweet corn products available on the market ?

- In Europe, Middle East and Africa only Syngenta offers Excelis® seeds.
- All seeds lots have been tested by the PCR method.

## What are Excelis® seeds ?

In addition to our current high quality standard, we implement an optimal and specific non-GM seed purity at key steps of the seed production and process :



- In order to become Excelis® quality, seeds have to pass **13 checks** throughout the whole process.
- A robust test plan is supporting the Excelis® qualification :  
PCR tests on commercial seeds are carried out upon 3 x 10 000 seeds.



## Primetime

This hybrid has become the most widely grown fresh market variety for the European market and the reference for the supermarket.



### Advantages

- Excellent tip fill
- Very high yield of marketable cobs per Ha
- Cylindrical cobs look great in tray pack

### Main agronomical characteristics

• Type	: Sh2 / Super sweet
• Kernel colour	: yellow
• Husk colour	: dark green, good flags
• Earliness / Heat units	: 79 days average / 920 heat units
• Average ear length	: 20 cm
• Average ear diameter	: 4 cm
• Average row count	: 14-16
• Average plant height	: 229 cm
• TSW	: 150 g
• HR	: Et
• IR	: Pst

## Prime Plus

Widely adapted variety with healthy plants and outstanding quality.



### Advantages

- Excellent tip fill
- Cylindrical cobs look great in tray pack
- High yield of marketable cobs
- Improved Primetime variety

### Main agronomical characteristics

• Type	: Sh2 / Super sweet
• Kernel colour	: yellow
• Husk colour	: dark green, good flags
• Earliness / Heat units	: 78 days average / 909 heat units
• Average ear length	: 20 cm
• Average ear diameter	: 4,6 cm
• Average row count	: 14-16
• Average plant height	: 215 cm
• TSW	: 150 g
• HR	: Et / Ps (Rp1-d)
• IR	: Pst

## Garrison

Excellent fresh market variety for the mid season with a complete disease package.



### Advantages

- Good disease package
- Excellent tip fill
- Cylindrical cobs look great in tray pack
- High yield potential

### Main agronomical characteristics

• Type	: Sh2 / Super sweet
• Kernel colour	: yellow
• Husk colour	: green
• Earliness / Heat units	: 79 days average / 920 heat units
• Average ear length	: 20 cm
• Average ear diameter	: 5 cm
• Average row count	: 16
• Average plant height	: 210 cm
• TSW	: 143 g
• HR	: Bm / Et / Ps (Rp1-d), Ps (Rp1-i) / Pst / MDMV

## GSS3287 / Overland

High yielding strong growing variety with attractive cobs and good eating quality.



### Advantages

- Strong, healthy plant
- Big cob with deep kernels
- High yield potential
- Good disease package

### Main agronomical characteristics

• Type	: Sh2 / Super sweet
• Kernel colour	: yellow
• Husk colour	: green
• Earliness / Heat units	: 84 days average / 960 heat units
• Average ear length	: 20 cm
• Average ear diameter	: 5,6 cm
• Average row count	: 18
• Average plant height	: 220 cm
• TSW	: 150 g
• HR	: Ps (Rp1-i), Et, Pst
• IR	: Bm, Ps

## Strength in crop protection

Syngenta is a world leader in crop protection and seed care. We aim to create maximum value by combining selected seed traits with chemical treatments that protect the seed from the day it is sown.

# Sharing with you

Our commitment to you is expressed in more than just our products. Like you, we're dedicated to the fresh market, with an ambition for long-term success. That's why we build strong relationships with our direct customers and distributors around the world.

We welcome partnerships and are constantly working to strengthen our relationships with customers of all sizes – from major companies who shape the market to smaller specialist firms.

## Open to partnership

If you're expanding internationally or exploring new production locations, we can support you through our global knowledge and commercial links. Besides our strength in Europe and the USA, we're also active in important emerging markets like Brazil, Russia, India and China.

## Ready with support

If you're looking for support and local knowledge in your region, we are there too. Our sales teams and experts are present in numerous countries, ready to support you with advice, and product, market and technical information.

For all our customers, we're expanding the ways we stay in touch and provide information and news, via all kinds of communication channels from printed brochures, to the internet and SMS messaging.

Contact us to find out what our strength and commitment mean for your business – whether that's cooperation in product development, or the latest varieties and crop protection solutions for high yields of fresh crops that taste and look delicious.



## Explanation of abbreviation

<b>BCMV</b>	Bean common mosaic Virus de la mosaïque commune du haricot <i>Bean common mosaic virus</i>
<b>CI: 1</b>	Anthraxnose Anthraxnose <i>Colletotrichum lindemuthianum</i> race <i>alpha, beta, delta, gamma, lambda</i>
<b>Psp 1, 2</b>	Halo blight Graisse à <i>Pseudomonas</i> <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> race 1, 2
<b>Ua</b>	Rust Rouille <i>Uromyces appendiculatus</i>
<b>Fop: 1</b>	Fusarium wilt Fusariose vasculaire <i>Fusarium oxysporum</i> f.sp. <i>pisi</i>
<b>Ep</b>	Powdery mildew Oidium <i>Erysiphe pisi</i>
<b>Pv</b>	Downy mildew Mildiou <i>Peronospora viciae</i>
<b>Pst</b>	Stewart's wilt Stewart wilt <i>Pantoea stewartii</i> (ex: <i>Erwinia stewartii</i> )
<b>Bm</b>	Southern corn leaf blight (SCLB) Helminthosporiose <i>Bipolaris maydis</i> (ex: <i>Helminthosporium m.</i> )
<b>Et</b>	Northern corn leaf blight (NCLB) Helminthosporiose <i>Exserohilum turcicum</i> (ex: <i>Hel.turcicum</i> )
<b>Ps</b>	Common rust Rouille commune <i>Puccinia sorghi</i>
<b>Um</b>	Common smut Charbon commun du maïs <i>Ustilago maydis</i>
<b>MDMV</b>	Maize dwarf mosaic Mosaïque nanisante <i>Maize Dwarf Mosaic Virus</i>

## Definition of resistances

Resistance is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure.

### Two levels of resistance are defined:

**High resistance (HR)** : plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties.

These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.

**Intermediate resistance (IR)** : plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to resistant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.

### Immunity

Not subject to attack or infection by a specified pest or pathogen.

### Susceptibility

Susceptibility is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

«Syngenta Seeds S.A.S. has exercised reasonable care and skill in compiling this brochure. All resistances quoted refer only to races or pathotypes indicated at the varieties.

Other pathogen races or pest biotypes capable of overcoming the resistance may exist or emerge. Syngenta Seeds Vegetables uses highly elaborate analytical methods to verify specific variety resistances. Specificity of pests or pathogens may vary over time and space and depends on environmental factors. In order to maximize the efficiency of a resistance, it is highly recommended to combine different ways of control such as growing conditions, plant protection products and genetic resistance as part of an integrated crop management.

All data in this brochure are intended for general guidance only and the user should apply it in accordance with his own knowledge and experience of local conditions.

In case of doubt we recommend that a small scale trial production be carried out to determine how local conditions may affect the variety.»



## Contacts

For detailed information, please contact our distributor or one of Syngenta's representatives at the sales office.



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