



**semo**®

**profi**  
2025/28

**Vegetable seed catalog**

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Country distributor:

## Signs

- N new variety
- P variety in preparation
- EU the variety is not registered in the EU

 very suitable variety

 suitable variety

 not suitable variety

## Please note:

All variety descriptions and recommendations in this catalogue are based on our experience in Central Europe. Growing times, size of fruit, color and other characteristics may vary in other regions. Buyers need to determine which varieties are likely to be adapted to the prevailing conditions in their own areas by performing trials in their locations.

## Non-GMO Declaration

We confirm that none of our varieties is a product of genetic manipulation and that our seed is therefore free of genetic modification (GMO).

## Resistance:

We use the definitions according to ISF rules (International Seed Federation):

IR = intermediate/moderate resistance

HR = high/standard resistance

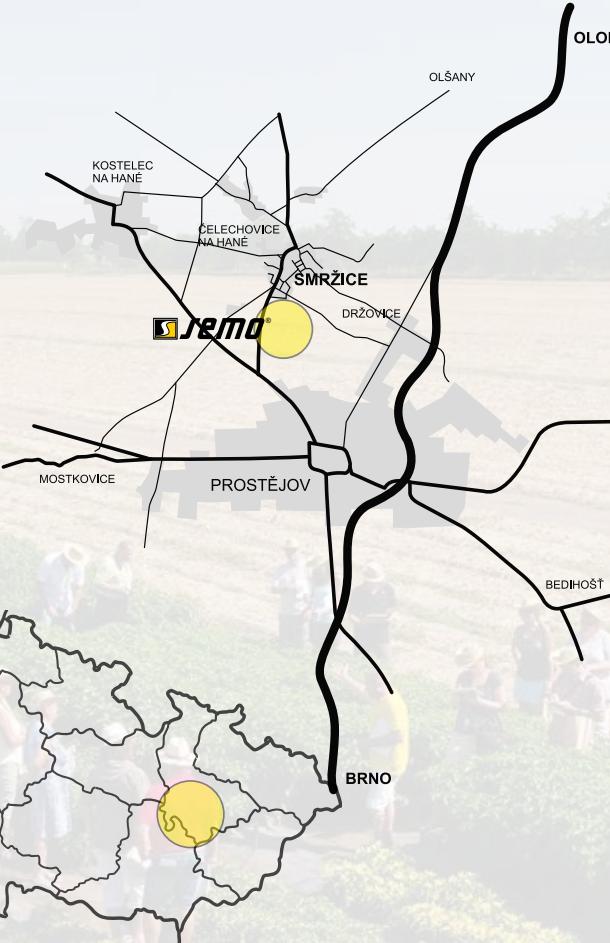


Dear business friends,

We offer an open invitation for you to visit us at our premises, so we can show you SEMO's facilities and our assortment of our new and existing varieties. You are welcome to visit us at any time. The best time for a visit is the last week of July, as this is time when the most crops are ready, especially cucumbers, tomatoes and peppers. Our managers, breeders and the rest of our staff look forward to hosting your visit during this week.

Your SEMO team

**SEMO a.s.**  
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Dear growers,

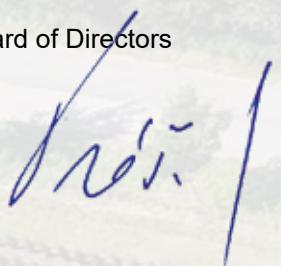
growing vegetables has become highly specialized and intensive activity. Professional gardeners are real pioneers in precision agriculture. In order to be successful in this challenging journey they demand high quality varieties and high quality seed. And we are ready to meet these requirements.

"Everything we do, we do for our shared success". For us it's not just a phrase. In order to succeed in the challenging and competitive world of seed breeding we must offer high quality, competitive varieties of excellent seed quality. This is what we mean by our motto – "Seed from the right hands". The proof of our success is evidenced by the growing interest in our high quality varieties and hybrids from our wide assortment.

We are very pleased to introduce our new catalog. Included in it are established varieties, as well as promising new varieties from our breeding program. We believe that many of them will prove successful in your fields, plastic tunnels or greenhouses. We thank you for your current business and look forward to working with you in the future.

I wish you a successful and profitable growing season.

Jan Prášil  
Chairman of the Board of Directors



## WHO we are

SEMO a.s. is a Czech company that was founded in 1994. With its formation, SEMO continued more than 50 years of tradition in plant breeding connected with the former Vegetable Breeding Station. Now SEMO is acknowledged as a leader in the breeding of vegetable crops in Europe. We concentrate mainly on fruit vegetables (especially tomatoes, cucumbers, and peppers), green peas, lettuce, onions and root crops. Our varieties are known in many countries and our customer base is increasing every year.

In 2017 we acquired the Slovak breeding company Zelseed. The best beans, peppers, sweet corns and tomatoes from its program are now in our catalog.

## Seed Quality

SEMO is proud of the high quality of its products. We produce seeds all over the world – in environments that have the best conditions for seed production for each specific crop. All new seeds are then tested here in our laboratory for germination, purity and health. Testing continues in our greenhouses and trial fields, and the quality of the seed inventory is regularly monitored. All seeds leaving SEMO comply with our high quality standards.

## Approach to Growers

Besides offering high quality seeds, our goal is to provide growers with high quality service. Our customer service does not end with the purchase of the seed. We also offer an advisory service that is available to you throughout the growing season. We are eager to help to solve any problems you encounter.

## Our seeds

We offer the following categories of seeds:





## **NORMAL seed**

NORMAL seed is sold by weight (kilos). Our NORMAL seed meets all ISTA standards (the International Seed Testing Association).

## **PRECISION seed**

PRECISION seed is sorted according to its size. The uniform size of the seed results in uniform germination. It is sold by count (in units of 1 000 seeds). PRECISION seed is of a high quality and is subjected to additional treatments – HWT, SEMO Vital etc.

## **Pills/Pellets**

SEMO offer pellet seed of celeriac, leek, parsnip and lettuce. Current information about the range of pellets for the season can be found in our price list.

## **Organic seed**

Our organic seed is certified by the Czech Government authority, and is intended for organic farming.

## **Seed treatments and seed improving**

### **• Fungicide coating**

Most of the treated seed varieties we offer can also be sold as untreated. Please always specify your request for untreated seeds in your order. The price for untreated seed stays the same as for treated.

### **• Disinfection**

#### **– Hot Water Treatment (HWT)**

HWT is carried out by SEMO on PRECISION seeds of pepper, carrot, parsley and parsnip and brassica seed lots. This treatment eliminates any bacterial infection that may be on the surface of the seed – for example *Candidatus Liberibacter Solanacearum*.

### **• SEMO Vital**

SEMO Vital is the whole set of improving substances. It includes physical disinfection of seeds and the application of supporting substances that improve germination, support the development of the root system and the adaptation of plants to stress. We use SEMO VITAL for PRECISION seeds of onions, bunching onions, root parsley and selected varieties of peppers. For more information, please contact us.

### **• Primed seed of parsley, parsnip, celeriac, carrot, dill, onion and bunching onion**

Germination is quicker and more uniform when using primed seed.

### **• Thermo-primed seed of lettuce**

Important for summer (hot weather) sowing, where the germination is better and more uniform with thermo-primed seed.

### **• Cold plasma seed treatment**

In the testing phase is seed treatment by cold plasma. It is not, of course, a full substitution for chemical treatment. Through this process we can only eliminate pathogens on seeds surface. Unfortunately it does not prevent infection after sowing.

As there is an emphasis on decreasing chemical use in agriculture, existing and new methods of physical seeds disinfection are becoming more and more important.



**BONA****GAMA****AIDAGOLD**

# Bean – bush (dwarf)

*Phaseolus vulgaris L.*



More about all our Beans

## **BONA**

(Green pods: 10–12 cm, diameter 0.7 cm, white seeds: WTS 190 g)

A mid-early variety of French bean with a sturdy plant and uniform pods. It achieves high and early yields. Intermediate resistance to Anthracnose. We recommend this variety for both processing and for fresh market.

## **GAMA**

(Green pods: 10–12 cm, diameter 0.8 cm, white seeds: WTS 220 g)

A mid-late variety of French bean with a sturdy plant and uniform pods. GAMA has a high yield potential. Intermediate resistance to Anthracnose. We recommend this variety for processing and for fresh market.

## **AIDAGOLD**

(Wax pods: 10–12 cm, diameter 0.75 cm, white seeds: WTS 230 g)

A mid-early variety of wax French bean. Its yellow pods are straight and attractive. Medium vigorous plant that is well adapted to mechanical harvesting. Good for fresh market and various processing including canning and freezing.

## **LILANA**

(Wax pods: 12–15 cm, diameter 0.8 cm, light brown seeds: WTS 210 g)

A mid-early bush bean with yellow pods and large, light brown seeds. LILANA offers shiny stringless pods those are perfect for fresh use as well as for freezing and canning. Excellent and fancy appearance.

## **NIGRONA**

(Wax pods: 10–12 cm, diameter 0.9 cm, black seeds: WTS 300 g)

A mid-late bush bean with yellow pods and medium sized, black seeds. NIGRONA is possible for harvest of young pods or nice dark dry seeds.

## **HYNEK**

(Green at young stage then patchy violet and beige in full dry pods: 9–12 cm, almost black seeds: WTS about 600 g)

Mid-late bush shell bean with beige pods and fine, dark grown almost black seeds. Nice variety for shelling of dry seeds. Vigorous plant with violet flowers is very tolerant to dry and other stress conditions. The best harvest time is when pods are dry and beige colored.

**LILANA****HYNEK**

Variety	Days from sowing to harvest	Maturity	Plant height (cm)	Pod			Seed		General remarks
				length (cm)	diameter (cm)	color	average TSW of dry seeds (g)	color	
<b>BONA</b>	70	mid-early	30 - 40	10 - 12	0.7	medium dark green	190	white	for harvest of young pods IR to Anthracnose
<b>GAMA</b>	75	mid-late	40 - 45	10 - 12	0.8	medium dark green	220	white	for harvest of young pods IR to Anthracnose
<b>LILANA</b>	70	mid-early	30 - 40	12 - 15	0.8	yellow	210	light brown	for harvest of young pods, with beige seeds
<b>AIDAGOLD</b>	70	mid-early	30 - 40	10 - 12	0.75	yellow	230	white	for harvest of young pods, straight and attractive pods
<b>NIGRONA</b>	75	mid-late	40 - 50	10 - 12	0.9	yellow	300	black	for harvest of young pods or nice dark dry seeds



RED SHINE



BETINA



DANET F1

## RED SHINE

RED SHINE is monogerm beetroot. Uniform beets are globe-shaped with very smooth skin. Dark red flesh with high sugar content. Vigor is medium with strong, short tops. High tolerance to bolting allows early sowing. Since each seed produces just one embryo, RED SHINE is ideal for precision sowing. Excellent uniformity. Perfect for bunching or marketing without tops at full maturity. Suitable for fresh market and processing.

## BETINA

A selection of DETROIT type with more uniform round roots and very healthy tops. Deep red flesh with slightly paler rings. A reliable variety for fresh market as well as for processing, including canning of baby roots.

# Beetroot

*Beta vulgaris L. var. conditiva Alef.*



More about all our Beetroots

## CERVENA KULATA

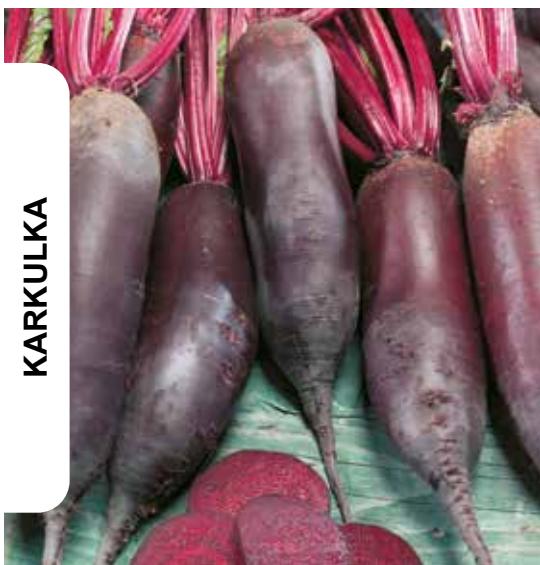
A high yielding, medium-late DETROIT type with strong erect foliage. Beets with a deep-red color and paler rings are very suitable for industry and long term storage. Firm skin and very good plant health is important characteristics of this „time tested“ variety.

## KARKULKA

Excellent flavor and deep red color are the most important characteristics of KARKULKA. Cylindrical shaped roots with smooth skin. High yield potential. Excellent for fresh market and storage. KARKULKA is suitable for all types of processing including slicing, pickling and production of chips. It is sensitive to cold so later spring sowings are recommended to avoid bolting.



CERVENA KULATA



KARKULKA

# Brussels sprouts

*Brassica oleracea L. convar. oleracea var. gemmifera (DC).*

## DANET F1

Nice mid-early hybrid with a short stem and high tolerance to lodging. The sprouts are smaller at the top of the stem and are bigger at the bottom. The firm sprouts are round, with good color and

are easy to harvest. DANET is recommended for home gardens and fresh market. Excellent tolerance to cold allows for winter harvest in areas with moderate winters.

# Celeriac

*Apium graveolens L. var. rapaceum (Mill.) Gaud.*

## NEON

An early, high yielding and reliable variety with smooth white roots (they do not contain Anthocyanin) that stays white when cooked. NEON has an extensive root system, healthy tops and

is not susceptible to Septoria. Roots are dense, resistant to hollow heart, and store well. Suitable for drying and for fresh market. Approximately 137 days from transplanting to maturity.



NEON

**MINICA F1****SLAVA F1**

We offer an exclusive range of cabbage hybrid varieties directly from the breeder, Mrs. Jitka Hrubešová and her team. These hybrids are suitable for fresh market, processing and long-term storage.

### MINICA F1

Nice mini cabbage for high density planting. MINICA is tolerant to cracking and holds well on the field. Heads are small (0.5 kg–1.0 kg) but firm and good for fresh use or storage. Leaves are thin with a nice mild sweet flavor and are excellent for fresh use or cooking.

### SLAVA F1

An early cabbage for early summer harvest. Its round heads are medium dense, resistant to cracking and reach a balanced weight of 0.9 to 1.2 kg. They are primarily intended for fresh market. It grows evenly until harvest maturity. SLAVA is resistant to low temperatures and bolting. This variety is also suitable for year-round growing with direct sowing until July 15th (in Central European conditions).

# Cabbage

*Brassica oleracea L. convar. *capitata* (L) Alef.*[More about all our Cabbages](#)**UNIKAT F1****PORTOZA F1**

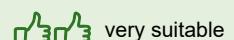
### UNIKAT F1

An early cabbage hybrid for fresh market. Heads are round and uniform, average weight is about 1.2 kg. They have a short core and tender leaves. High tolerance to cracking and good field-standing ability.

### PORTOZA F1

A very attractive hybrid. Firm round heads with a good field holding ability. Weight depends on density of sowing, ranging between 3.0–6.0 kg. Very tolerant to cold conditions, cracking and thrips. An all-purpose variety for processing and long-term storage (Zerlina type). Performs well with stable yields even in difficult weather conditions.

Variety	Use			Maturity	Days from transplanting to harvest*	Head		Recommended number of plants/ha	General remarks	
	fresh market	processing	storability			weight (kg)	shape			
for fresh market										
MINICA F1					early	70	0.5 - 1.0	round to egg-shaped	65 000	short internal core tolerant to cracking
SLAVA F1					early	75	0.9 - 1.2	round	65 000	resistant to low temperatures for year-round growing
UNIKAT F1					early	80 **	0.9 - 1.5	round	60 000	uniform heads with short core, perfect for fresh market, holds well in the field
for processing and long term storage										
PORTOZA F1					late	130	3 - 6	round	32 000	firm head with dense internal structure, tolerant to thrips; good for long term storage and processing



very suitable



suitable



not suitable

\* valid for Central European conditions

\*\* 50 days in Panjab - India

**RAPID F1****CONCORD F1**

# Cabbage – Chinese

*Brassica rapa L.*[More about all our Chinese Cabbages](#)

## **RAPID F1 (SM 9/18 CHU)**

An early hybrid (approximately 60 days from transplanting to maturity). Uniform and really tasty semi cylindrical dark green heads (weight 1.5–2.0 kg) with golden yellow inner core. It is characterized by a sweet taste and a delicate head structure. RAPID is strong against bolting and suitable even for spring planting. Resistant (HR) to Clubroot and tolerant (IR) to pepper spot, Downy Mildew and viral diseases. Recommended hybrid for fresh market and medium term storage.

## **MERKUR F1 (SM 10/18 JIN)**

A mid-early hybrid (approximately 65 days from transplanting to maturity) with shorter semi cylindrical compact heads (weight 1.7–2.5 kg). The heads with nice golden yellow inner core can be easily cleaned after storage. MERKUR is suitable for long term storage. High tolerance to bolting and to packet of fungi diseases are advantages of this hybrid. Recommended for planting in both spring and summer period.

**MERKUR F1****CONCORD F1**

Variety	Maturity	Days from transplanting to harvest*	Recommended for planting*	Head		Recommended number of plants/ha	Disease resistance	General remarks
				weight (kg)	shape			
<b>RAPID F1 (SM 9/18 CHU)</b>	early	60	spring, summer	1.5 - 2.0	barrel - cylindrical	65 000	HR Pb, IR DM	really good fine taste, tolerant to viral diseases, golden yellow inner core
<b>MERKUR F1 (SM 10/18 JIN)</b>	mid-early	65	spring, summer	1.7 - 2.5	barrel - cylindrical	60 000		compact heads with rich golden yellow inner core, high tolerance to bolting
<b>CONCORD F1</b>	mid-late	68	summer	1.5 - 2.0	barrel - cylindrical	65 000		compact, suitable for long term storage, for summer sowing including the early one

\* valid for Central European conditions

**Resistance**

PB = Clubroot (*Plasmodiophora brassicae*),  
DM = Downy Mildew (*Peronospora parasitica*)



CHANTAL (SM 109/2024)



HAMI F1



JOLANA F1

## Carrot

*Daucus carota L.*



More about all our Carrots

### **P CHANTAL (SM 109/2024)**

It is a mid-late Chantenay-type carrot variety. It can be sown early in the spring and in the summer until early June. The root measures 10–14 cm in length and 6–7 cm in width and is resistant to cracking. Due to its root shape, this variety is suitable for cultivation in heavy soils. The root is orange with a smooth surface.

### **N HAMI F1**

An attractive Imperator type of carrot with good health and resistance to cracking and bolting - it can be sown since early spring even under conditions of Central Europe. HAMI has attractive, smooth and really dark orange roots with a blunt end. Good storability also enhances the suitability for bunching. The roots are also fitting for peeling and production of canned or frozen baby carrots.

### **MARQUETTE**

Nantes type carrot perfect for bunching and fresh market. Very uniform smooth roots with excellent internal and external color and nice sweet taste.

### **N TENA F1**

Mid-late hybrid Chantenay with high tolerance to root cracking and bolting – sowing is possible from early spring. TENA offers uniform roots in size and shape and is suitable for sowing even in heavy soils. Roots are smooth skinned with very intensive dark orange color and nice sweet taste. Suitable for all types of use - fresh market, freezing, canning and first of for juicing.

The seeds of this variety will also be available in organic quality for organic farming.

### **JOLANA F1**

A Nantes hybrid that has short, extremely healthy tops. Tolerant (IR) to Alternarium. Roots are attractive, uniform and smooth with excellent external and internal color. Excellent hybrid for bunching and mechanical harvesting.

### **ANINA**

Main Nantes type variety. The roots are smooth skinned, deep orange and have a long cylindrical root with a blunt end. The tops are very healthy and strong. Suitable for fresh market and long-term storage. It is tolerant to high temperatures and for many reasons is really popular in the Middle East. Confirmed variety for Organic growing because stands adverse weather conditions very well.

The seeds of this variety will also be available in organic quality for organic farming.

### **N KORADA F1**

KORADA is more resistant to bolting compared to other carrots of the Kuroda type. Sowing is safe from the beginning of May even under the conditions of Central Europe. Its strong vigorous top shows a high tolerance to fungal leaf diseases. It creates an uniform typical wedge-shaped very smooth root with a blunt end. The flesh is tasty and crunchy with a high sugar and carotene content. KORADA is suitable for bunching due to its strong healthy top and rapid root growth. We can also recommend it for juicing and canning. Really healthy variety – tolerance (IR) to Alternarium and Powdery Mildew.

### **P VIOLETA F1 (SM 161/2024)**

This mid-early Nantes-type carrot variety features a unique purple-colored cortex contrasted by an orange core. The roots are cylindrical with blunt tips and smooth surfaces, exhibiting good health and resistance to cracking. Thanks to its distinctive coloration, this variety is ideal for fresh consumption, such as in salads. Additionally, when cooked, these carrots can impart a vibrant purple hue to dishes, adding an unexpected and visually appealing element to your culinary creations. They also store well, maintaining quality over time.



ANINA



KORADA F1



VIOLETA F1 (SM 161/2024)

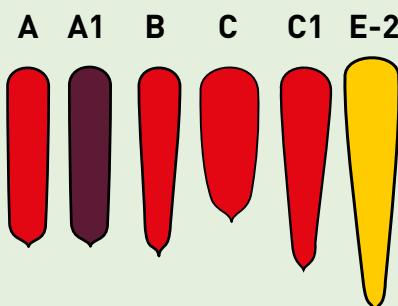
# Carrot

Variety	Type	Maturity	Days from sowing to harvest*	Root			Use			General remarks	
				color flesh/skin	average length (cm)	shape	fresh market	storage	processing		
N	BABETKA	Nantes	very-early	80	7 / 7	A	👍👍	👎	👎	a very early baby carrots with slender roots, for both professional growers and gardeners	
	HAMI F1	Nantes	early	115	8 / 8	A	👍👍	👍👍	👍	smooth roots, perfect for bunching and fresh market	
	MARQUETTE	Nantes	early	115	7 / 8	A	👍👍	👍	👍	longer uniform roots, strong foliage, very good for fresh market	
	JARANA F1	Nantes	mid-early	125	7 / 7	A	👍👍	👍👍	👍	"long uniform roots, strong foliage, performs well in subtropical area, confirmed carrot for organic growing"	
	ANINA	"Berlicum x Nantes"	mid-early	125	7 / 7	23	B	👍👍	👍👍	"resistant to cold weather and suitable even for early spring sowing nice long roots"	
P	LENKA	Nantes	mid-early	125	9 / 8	A	👍👍	👍👍	👍👍	for bunching, also good for late harvest and storage, high tolerance to Alternarium	
	JOLANA F1	Chantenay	mid-late	135	7 / 7	15	C	👍👍	👍	strong foliage and good storage ability, suitable for juicing and fresh market."	
	CHAMARE	Chantenay	mid-late	135	8 / 8	15	C	👍👍	👍	"high tolerance to root cracking and bolting, sowing is possible from early spring"	
	CHANTAL (SM 109/2024)	Chantenay	mid-late	130	8 / 8	12	C	👍👍	👍👍	Suitable for both early and late sowing, with strong foliage, resistant to cracking	
	TENA F1	Kuroda	late	140	9 / 9	18	C1	👍👍	👍	"more tolerant to bolting than other Kurodas, late spring sowing is possible"	
P	KORADA F1	Berlicum	early	120	8 / 8	22	B	👍👍	👍👍	versatile variety for bunching, storage and processing, very healthy leaves	
	VERA F1	Berlicum	mid-early	130	8 / 8	20	B	👍👍	👍👍	due to its strong and healthy leaves it is very suitable for combine harvesting	
	JUDITA F1	Berlicum	mid-late	135	7 / 8	20	B	👍👍	👍👍	suitable for both fresh market and processing	
	JITKA F1	Berlicum	late	145	7 / 8	22	B	👍	👍👍	"high yielding variety, high dry matter content, for processing and long storage"	
	KOLOSEUM F1	Berlicum	late	145	7 / 8	22	B	👍	👍👍	high yielding variety, high dry matter content, for processing and long storage	
P	VIOLETA F1 (SM 161/2024)	Nantes	mid-early	130	8 / violet	18	A1	👍👍	👍👍	👎	purple cortex with orange flesh, suitable for fresh consumption and storage.
	TABORSKA ZLUTA	Flakkee	late	150	yellow	22	E-2	👍	👍👍	👍	not only for human nutrition but also valuable feed for horses, really high yielding variety

\* valid for Central European conditions

color: 1 = light orange; 10 = dark orange

👍👍 very suitable    👍 suitable    👎 not suitable



# Celery

*Apium graveolens L.*

## MERLIN

An early variety with long erect stems and medium dark green leaves. MERLIN can be grown successfully for summer and for autumn harvests. The most important characteristics of this celery

are high tolerance to Septoria and bolting. High yielding. Suitable for both fresh market and processing.

MERLIN





BOHEMIA F1



GRACIE F1



ARTEMIS F1

# Pickling cucumber

*Cucumis sativus L.*



[More about all our Picklers](#)

Cucumbers are an important crop in SEMO's breeding program. We offer premium varieties of picklers, American slicers and indoor cucumbers in different sizes. Variety requirements differ by country, region and production systems. Our assortment is therefore increasing every year to meet these requirements.

## BOHEMIA F1

An early, high yielding, spined nonparthenocarpic variety. The uniform fruits are dark green and slim, with a very good pickling quality. Fruits are easy to harvest as the medium length vines are less dense than for a typical cucumber. Intermediate resistance to Downy Mildew and tolerant to high temperatures.

## GRACIE F1

A very early variety well adapted to various climates and suitable for growing in greenhouses and open field. The plant is medium vigorous and therefore suitable for trellising. Fruits are very long, up to 12 cm, and very slender. They have dark green skin with white spines. Very healthy vines with intermediate tolerance (IR) to Downy Mildew and tolerance to low and high temperatures. GRACIE is well suited for salt and vinegar processing. Sells well on fresh market.

## N ARTEMIS F1

This new, very early spined parthenocarpic hybrid was bred especially for harvest of cornichons (3–6 cm) or for harvest of little longer but still small fruits (6–8 cm). ARTEMIS has the shortest fruits of our spined parthenocarpic assortment. Its dark green fruits with small seed cavity are crunchy and tasty. It has the broadest disease resistance package including intermediate resistance (IR) to Downy Mildew. Well regenerating plants produce fruits over a long harvest period. Thanks to these positives, ARTEMIS belongs among the highest yielding gherkins.

## ANYA F1

Spined parthenocarpic hybrid with slightly shorter and darker fruits than DAFNE. Very early maturity. ANYA has high early yields, keeps producing well the entire season. A great advantage of this variety is its ability to recover from weather events such as frost or hail. ANYA is excellent for hoophouse, unheated greenhouse and open field.

## P ATHENA F1 (SM 71/24)

Very early parthenocarpic pickling cucumber with a really high yield throughout the entire vegetation period. Dark green, fine-spined fruits are very suitable for both traditional canning and fermentation. Attractive fruits with a blunt tip are genetically non-bitter. ATHENA regenerates excellently and is therefore well-adapted even for everyday harvests. Plants are easy to harvest and we can also confidently recommend it for cultivation on vertical systems.

## NAJADA F1

An extremely early black-spined cucumber with really long, attractive fruits. Recommended for all indoor and field growing techniques including trellising. Medium vigorous plants have an excellent disease package including intermediate tolerance to both Downy and Powdery Mildews and tolerance to low and high temperatures. NAJADA is well suited for salt and vinegar processing. Nice long fruits (up to 10 cm) are excellent for fresh market sales.

## HARRIET F1

Recommended for intensive production systems using drip irrigation. This smooth type parthenocarpic variety is very high yielding. Plants are healthy and stress tolerant. The fruits are attractive, cylindrical and are very dark green. Recommended for outdoor or hoophouse production. HARRIET has a high tolerance to many fungal diseases. Fruits hold well on the vines.



ANYA F1



ATHENA F1 (SM 71/24)



HARRIET F1

# Pickling cucumber

Type	Variety	Maturity	Plant vigor	Genetically non-bitter	Fruit			Recommended for					RESISTANCES					General remarks		
					spine color	length /width	color	cornichons	salt processing	growing on trellis	harvest by machine	indoor growing	CMV	CC	ALS	DM	PM	ZYMV		
Spined (American) type non-parthenocarpic	<b>BARA F1</b>	early	vigorous	no	white	3.3 : 1	8	👍	👍	👍	👍	👎	👎	HR	HR	HR	6		attractive slim fruit, very healthy plants	
	<b>BOHEMIA F1</b>	early	compact - vigorous	yes	white	3.6 : 1	8	👍	👍	👍	👍	👍	👎	HR	HR		7	IR	uniform fruit, very tolerant to DM	
	<b>REGINA F1</b>	early	very vigorous	no	white	3.1 : 1	8	👎	👍	👎	👎	👎	👎	IR	IR		4		standard variety tolerant to DM	
	<b>IWONNA F1</b>	mid-early	vigorous	no	white	3.0 : 1	7	👎	👍	👍	👍	👎	👎	HR	HR	HR	5		tasty crunchy flesh very good for salt pickling	
Spined type parthenocarpic	<b>DAFNE F1</b>	extremely early	compact - vigorous	yes	white	3.4 : 1	8	👍	👍	👍	👍	👍	👍	HR	HR		4		good yields of nice dark fruit, stress tolerant	
	<b>ANYA F1</b>	very early	compact - vigorous	yes	white	3.1 : 1	9	👍	👍	👍	👍	👍	👍	HR	HR		4	IR	high yielding for a long harvest window, stress tolerant, quick recovering	
	<b>N ARTEMIS F1</b>	very early	compact - vigorous	yes	white	3.0 : 1	9	👍	👍	👍	👍	👍	👍	HR	HR		6	IR	HR	very uniform fruits shorter than ANYA, quick recovering, resistance (IR) to DM
	<b>P ATHENA F1 (SM 71/24)</b>	very early	compact - vigorous	yes	white	3.2 : 1	9	👍	👍	👍	👍	👍	👍	HR	HR	HR	6	IR	HR	quick recovery, stress tolerant, lots of nice slim fruits, excellent yield
	<b>GRACIE F1</b>	very early	compact - vigorous	yes	white	5.0 : 1	9	👍	👍	👍	👍	👍	👍	HR	HR		4			nice, very slender fruits suitable also for "Vertico" production
Smooth type non-parthenocarpic	<b>NAJADA F1</b>	very early	compact - vigorous	yes	black	4.1 : 1	8	👍	👍	👍	👍	👍	👍	HR	HR	HR	4	IR	HR	very healthy, extremely early very suitable for fresh market (harvest up to a length of 10 cm)
	<b>CHARLOTTE F1</b>	extremely early	compact	yes	white	3.6 : 1	7	👍	👍	👍	👍	👍	👍	HR	HR		3	IR		the earliest variety on the market, long and slender fruits
	<b>ORNELLO F1</b>	mid-early	compact	yes	white	3.4 : 1	8	👍	👍	👍	👍	👍	👍	HR	HR		3			tolerant to poor conditions concentrated fruit set
Smooth type parthenocarpic	<b>SONADA F1</b>	very early	compact	yes	white	3.2 : 1	8	👍	👍	👍	👍	👍	👍	HR	HR		3			large stable yield, good plant health
	<b>HARRIET F1</b>	very early	compact	yes	white	3.3 : 1	7	👍	👍	👍	👍	👍	👍	HR	HR		3			very high yielding variety for intensive growing systems

👍👍 very suitable

👍 suitable

👎 not suitable

#### Legend:

color: 1 = pale green; 9 = dark green

CMV = cucumis mosaic virus; CC = scab; ALS = cucumber anthracnose; DM = downy mildew; PM = powdery mildew, ZYMV = zucchini yellow mosaic virus

**Resistance:** IR = intermediate resistance; HR = high resistance

DM 1 = sensitive, 9 = high resistance



MARKYZA F1



ANDROMEDA F1



LITTLESNACK F1

# Salad cucumber

*Cucumis sativus L.*



More about all our Cucumbers

## MARKYZA F1

A very early hybrid ideal for open field and indoor growing. MARKYZA produces uniform dark green fruits that maintain their quality during the entire harvest period. Healthy plant with high tolerance to Downy and Powdery Mildew makes it suitable for late summer and autumn sowing. Its small seed cavity makes it suitable for processing into slices or cubes. Highly resistant to stress, especially to high temperatures, with good results in the Mediterranean.

## N ANDROMEDA F1

A mid-early, 100% non-bitter parthenocarpic Japanese cucumber. Its slim fruits with typical shallow ridges and small white spines are juicy and sweet tasting. Excellent cucumber for fresh eating and salads.

## LITTLESNACK F1

Is intended exclusively for the production of delicious mini cucumbers up to 10 cm size. The fruit no longer grows in length but rather becomes bulbous. The essential condition for success is daily harvesting during which Salad cucumber Littlesnack guarantees a high yield of attractive baby fruits. Young fruits have delicate skin with typical fine ribbing and a demand shiny green color.

## SNACK F1

Our new parthenocarpic mini cucumber with very uniform fruits for year-round growing. Medium to dark green fruits (slightly darker than BABY) with excellent sweet flavor. Perfect for harvesting as baby fruits (length about 10 cm) – we recommend daily picking. Later picking of fruits up to 17 cm long is also possible. SNACK is a really high yielding variety with multifruit consistent fruit setting. Perfect results on rootstocks SPRINTER F1 or BOLT F1.

## FIESTA F1

Uniform fruits are glossy green, finely ribbed and blunt-ended. Perfect variety for harvesting of juicy baby fruits. Salad cucumber Fiesta is recommended for daily picking. Among the advantages of our parthenocarpic cucumber FIESTA is suitable for year-round cultivation.

## VISTA F1

A parthenocarpic salad cucumber with medium growth. The medium green fruits average length is 35–40 cm. VISTA is suitable for year-round growing in greenhouses, including autumn or winter (southern regions) because plants are tolerant to shortening days.



very suitable



suitable



not suitable



the variety is not registered in the EU



presence of pollinators is required

### Legend:

color: 1 = pale green; 9 = dark green

CMV = cucumis mosaic virus; CC = scab;

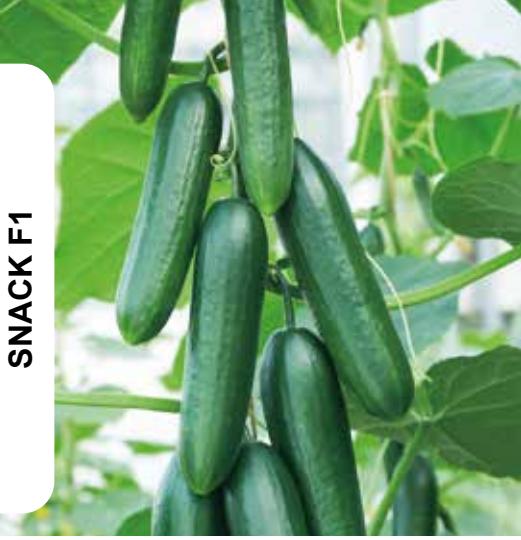
ALS = cucumber anthracnose; DM = downy mildew;

PM = powdery mildew

### Resistance:

IR = intermediate resistance;

HR = high resistance



SNACK F1



FIESTA F1



VISTA F1

# Salad cucumber

Type	Variety	Maturity	Plant vigor	Flowering trait	Genetically non-bitter	Recommended for			Fruit			Resistances					General remarks
						open field	indoor summer season	indoor winter season	length (cm)	weight (g)	color	CMV	CC	ALS	DM	PM	
Slicing type - outdoor and indoor - nonparthenocarpic	MARKYZA F1	very early	fairly - vigorous	predominantly female	yes	👍👍	👍👍	👎	18 - 22	300 - 360	9	HR	HR	IR	IR	very early harvest, attractive uniform fruit with fine skin	
	MARLEN F1	very early	fairly - vigorous	predominantly female	yes	👍👍	👍👍	👎	18 - 20	280 - 340	9	HR	HR	IR	IR	very early high yielding cucumber, good health	
	LILI F1	early	fairly - vigorous	predominantly female	yes	👍👍	👍👍	👎	23 - 24	370 - 420	9	HR	HR	IR	IR	dark green fruit with good storage ability, really healthy cucumber	
	CHEER F1	early	fairly - vigorous	predominantly female	yes	👍👍	👍👍	👎	20 - 22	340 - 390	9	HR	HR	IR		very firm skin, tolerant to damage by insect, suitable also for summer planting	
	AMANDA F1	early	medium	predominantly female	yes	👍👍	👍👍	👍蜜蜂	23 - 28	300 - 360	9	HR	HR	IR		long slicer mainly for indoor production, plants display excellent health properties	
Japanese burpless type - outdoor and indoor - nonparthenocarpic	AVANTGARDE F1	mid-early	fairly - vigorous	predominantly female	no	👎	👍👍	👎	26 - 28	410 - 440	9	HR	HR	IR	IR	nonparthenocarpic, good health, shallow ridges, small white spines top of fruit can be bitter	
	N ANDROMEDA F1	early	fairly - vigorous	100% female	yes	👎	👍👍	👍	28 - 32	420 - 460	9	HR	HR	IR	IR	multiple disease resistance, one of the few variety of 100% non-bitter Japanese cucumbers, pathenocarpic	
Beit Alpha type - outdoor and indoor - nonparthenocarpic	LIVIE F1	very early	vigorous	predominantly female	yes	👍	👍👍	👍👍蜜蜂	23 - 27	390 - 450	6	HR	HR	IR		indoor Beit Alpha cucumbers, light and fine skin, really narrow core	
	N ALI F1 (SM 20/21)	very early	vigorous	predominantly female	yes	👍	👍👍	👍👍蜜蜂	16 - 20	300 - 330	7	HR	HR	IR	IR	beit Alpha-type cucumber for both greenhouse and field cultivation; high-yielding and healthy.	
Mini type - indoor - parthenocarpic	LITTLESNACK F1	very early	medium	100% female	yes	👎	👍👍	👍	8 - 10	120 - 150	8	HR	HR	IR	IR	for daily harvesting of baby fruits	
	BABY F1	very early	medium	100% female	yes	👎	👍👍	👍	8 - 15	120 - 320	7	HR	HR	IR		excellent for baby fruit production	
	OFELIE F1	very early	medium	100% female	yes	👎	👍👍	👍	8 - 17	120 - 300	8	HR	HR	IR	IR	excellent for baby fruit production overripe fruit (up 10cm) are also nice it is not registered in the EC	
	SNACK F1	very early	medium	100% female	yes	👎	👍👍	👍	8 - 17	120 - 300	8	HR	HR	IR	IR	mini cucumber with very uniform fruits for year-round growing	
Medium size type - indoor - parthenocarpic	FIESTA F1	very early	fairly - vigorous	100% female	yes	👎	👍👍	👍👍	10 - 16	140 - 300	7	HR	HR	IR	IR	for harvesting both baby fruits and fruits at full maturity	
	MINISPRINT F1	very early	fairly - vigorous	100% female	yes	👎	👍👍	👍	15 - 17	280 - 310	7	HR	HR	IR		high yielding, excellent sweet flavor very popular with hobby growers	
	EMILIE F1	very early	medium	100% female	yes	👎	👍👍	👍	19 - 22	300 - 360	9	HR	HR	IR		good tolerance to very high temperatures recommended for subtropical areas	
	FORMULE F1	very early	medium	100% female	yes	👎	👍👍	👍👍	16 - 24	330 - 370	9	IR	HR	IR		also suitable for autumn growing tolerant to shortening days	
Long (Dutch) type - indoor - parthenocarpic	SUPERSTAR F1	early	medium	100% female	yes	👎	👍👍	👍	25 - 30	380 - 420	9	HR	HR	IR		attractive long fruits, very popular with hobby growers	
	TRIBUTE F1	early	medium	100% female	yes	👎	👍👍	👍	28 - 35	410 - 450	10	HR	HR	IR		high reliable yields, attractive dark fruit high level of tolerance to hot conditions	
	VISTA F1	mid-early	medium	100% female	yes	👎	👍👍	👍👍	35 - 40	420 - 460	8	HR	HR	IR		also suitable for autumn growing, tolerant to shortening days	
	ORCA F1	mid-early	medium	100% female	yes	👎	👍👍	👍	40 - 50	440 - 480	9	HR	HR	IR		exceptionally long slightly ribbed fruits, high yielding hybrid	



HANAK



COMPACT

KLASIK

## HANAK

A high-yielding variety with a fine spicy taste. The plants are 80–100 cm tall, with medium foliage and bright green leaves. HANAK has a high ratio of leaves to total plant green matter. Excellent, uniform color. Approximately 70 days from sowing to harvest (in Central European conditions).

## COMPACT

This variety is recommended for growing in containers. However, it is also very suitable for sowing in open fields. COMPACT is only slightly shorter than the traditional field variety HANAK. The advantage of COMPACT is its color as it is the darkest green dill variety that we offer. Approximately 70 days from sowing to harvest (in Central European conditions).

## Dill

*Anethum graveolens L.*



[More about all our Dills](#)

## MAMUT

Variety with darker leaves and thicker stalks than HANAK, making this variety ideal for bunching. The plants are vigorous and bunches have a long life after cutting. Approximately 75 days from sowing to harvest (in Central European conditions). Really good dill even for summer growing because of tolerance to high temperature conditions and significant leaf diseases.



## KLASIK

A mid-early eggplant with high tolerance to heat stress. Fruits have a classic shape - long, slim with black skin. The greenish flesh is very tender and delicious. KLASIK has healthy plants that perform well in the field.

## BE 02 F1

A mid-early hybrid is suitable for heated or unheated indoor growing, as well as open-field production. Very attractive pink fruits are oval-round and slightly ribbed. The flesh remains white even after cutting. Nice variety for fresh market. Good fruit setting even under high temperature conditions.

## KRASAN

A mid-early heirloom variety. Strong plants produce oval-round shaped fruits with shiny black skin.



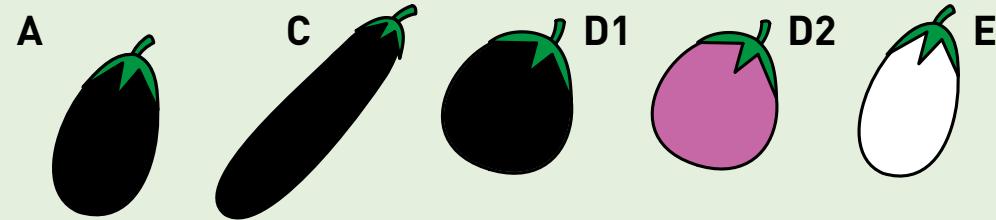
MAMUT



KRASAN



SE 02 F1

**BE 02 F1****MODRAVA F1****PURPURAN F1**

Variety	Maturity	Plant growth habit	Fruit				General remarks
			shape	color	average size (cm)	weight cca (g)	
<b>SE 02 F1</b>	early	medium	A	black	17 x 11	550	very tolerant to soil fungal diseases, for greenhouses and field growing
<b>KLASIK</b>	mid-early	medium	C	black	23 x 5	450	high tolerance to heat stress, for greenhouses and field growing
<b>KRASAN</b>	mid-early	vigorous	D1	black	19 x 13	580	high yielding even in poor conditions for greenhouses and field growing
<b>BE 02 F1</b>	mid-early	medium	D2	light purple	13 x 11	560	very attractive fruits for greenhouses and field growing
<b>ALBIN F1</b>	mid-early	medium	E	white	13 x 10	580	high-yielding variety for greenhouses and field growing

## Kohlrabi

*Brassica oleracea L. convar. acephala (DC.) Alef. var. gongylodes*



More about all our Kohlrabies

### MODRAVA F1

A purple kohlrabi hybrid for spring and autumn field production. Early, about 60 days from transplanting (in Central Europe conditions). The bulbs are medium-sized and flattened, and the flesh is of high quality. Tolerant to lignification and cracking, the bulbs will develop uniformly even in poor conditions.

### PURPURAN F1

A purple hybrid for spring and autumn growing. Mid-early, about 65 days from transplanting (in Central Europe conditions) – about 5 days later than MODRAVA. A vigorous variety with attractive bulbs resistant to lignification, cracking and greening. The eating quality is excellent, quite sweet and crunchy. PURPURAN is intended especially for field growing in spring and autumn.

### SPARTA F1

A mid-early hybrid, about 70 days from transplanting (in Central Europe conditions) with bigger, flattened round, bright green, crack tolerant bulbs. SPARTA is suitable for all year growing as it is tolerant to bolting, allowing for summer growing. Performs well under low temperatures and poor light conditions making it an excellent choice for late autumn sowing. Extended harvest is possible till hard frosts.

### GIGANT

This unique kohlrabi clearly belongs to the Czechoslovak heirloom. A late white variety producing very large bulbs (weighing 3–5 kg). Even the large bulbs will stay sweet, delicious, and tender. Excellent for winter storage. Useful as fresh or cooked in any size from small to large. GIGANT is also used as a supplementary feed for domestic animals. The leaves of large plants can be eaten like cabbage. Resistant (IR) to cabbage root fly.

**ALBIN F1****SPARTA F1****GIGANT**

## Kohlrabi

Variety	Maturity	Growing period from planting (days) *	Bulb		Leaves	Plant density (cm)	General remarks
			color	shape			
DVORANA	very early	55	white	slightly flattened round	low, fine	25 x 20	grows well in low temperatures and poor light conditions nice for tunnels or early field growing
MODRAVA F1	early	60	purple	flattened round	mid-high	25 x 30	very uniform bulbs suitable for spring and autumn field production
BLANKYT	early	60	purple	flattened round	low, fine	25 x 30	tolerant to cracking, nice for field production including summer planting
AZUR	mid-early	65	purple	flattened round	high	25 x 30	tolerant to cracking
PURPURAN F1	mid-early	65	purple	flattened round	mid-high	25 x 30	big bulbs tolerant to cracking suitable for spring and autumn field production
SPARTA F1	mid-early	70	white	flattened round	mid-high	30 x 30	big uniform bulbs tolerant to cracking nice for field production including summer planting
VIOLETA	late	90	purple	slightly flattened round	high, vigorous	30 x 40	very big bulbs (close to 1 kg) tolerant to cracking for long-term storage
GIGANT	very late	110	white	slightly flattened round	mid-high	40 x 40	gigantic bulbs (close to 5 kg) tolerant to cracking for long-term storage

\* valid for Central Europe conditions

## Garlic

Variety	Type	Maturity	Leaf	Bulb				Storage (1-10) 1=very short 10=very long	General remarks
				weight * (g)	skin color of head and cloves	shape	number of cloves		
STEPAN	soft neck, for autumn sowing	mid-early	wide erect light green	80-100	creamy white head brown clove	round	8-12	8	good plant health, tolerant to dry conditions
OTAKAR	hard neck, for autumn sowing	early	medium-wide sharply erect dark green	70-90	purple head dark purple cloves	slightly flattened round	9-11	6	very healthy, large bulbs
N JAN (HMI 6/23)	hard neck, for autumn sowing	early	broad, spreading, grass-green leaves	70-90	white with light yellow veining	round	6-8	9	resistant to splitting even after overripening
IVAN	hard neck, for autumn sowing	mid-early	wide erect green	80-120	creamy head violet cloves	slightly flattened round	6-7	6	very healthy, large bulbs
KAREL IV.	hard neck, for autumn sowing	mid-late	wide erect with bent tops dark green	70-90	creamy head violet cloves	slightly flattened round	5-7	7	stable high yield
P ADAM	soft neck, for spring sowing	early	fine bent tops light green	30-50	creamy white	slightly flattened round	10-12	10	excellent plant health, for long-term storage

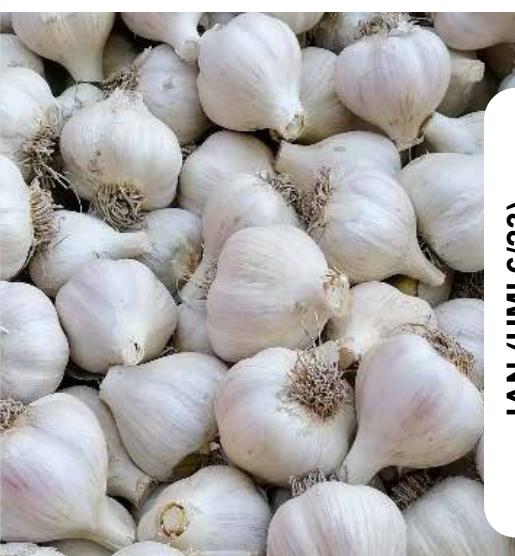
\* Valid for sowing density 180 000 plants/ha and lower



STEPAN



OTAKAR



JAN (HMI 6/23)

## STEPAN

A mid-early variety of overwintering soft neck garlic for autumn planting and a harvest time of around 10th July (in Central European conditions). Bulbs weigh 80–100 g (immediately after harvest) and have creamy white wrappers and 8–12 brown-skinned cloves. Good health, long term storability and a delicious taste are the most important characteristics of this variety. Intermediate to long day type.

## OTAKAR

Overwintering hard neck garlic for autumn planting. The earliest garlic from our range (harvest around July 5, about 5 days earlier than variety STEPAN – valid for Central Europe conditions). Purple onions weigh from 70 to 90 g. They contain 9–11 plump cloves covered with nice dark purple skin. OTAKAR has medium-wide dark green leaves that are sharply erect and almost do not bend. The advantages of this new garlic include not only earliness and very attractive appearance but also a good health, long storability and strong but nice garlic flavor.

## N JAN (HMI 6/23)

White overwintering early hardneck garlic, harvest around July 10 (in Central European conditions, with broad, spreading, grass-green leaves. The medium-sized bulbs weigh 70–90 g and have a papery skin that is white with light yellow veining. The bulbs are firm, tightly enclosed, and resistant to splitting even after overripening. They contain 6–8 medium-sized cloves of light brown color with purple markings. Other advantages of this variety include its mild garlic flavor and long shelf life.

# Garlic

*Allium sativum L.*



[More about all our Garlics](#)

## IVAN

Mid-early overwintering hard neck garlic. Under Central European conditions the bulbs are harvested between 10–15th July (about one week before KAREL IV.). Vigorous leaves and very big bulbs (80 to 120 g) are important characteristics of this nice garlic. Creamy colored bulbs with violet strips contain 6–7 brown-violet skinned cloves which peel easily. A strong garlic aroma is typical for this variety. IVAN has been shown to yield well in favorable and stressful conditions. Suitable for long-term storage. Long day type.

## KAREL IV.

A mid-late overwintering hard neck variety that produces large bulbs 70–90 g (immediately after harvest) with creamy wrappers and 5–7 violet skinned cloves. Under Central European conditions the bulbs are harvested between 15–20th July. Performs well in adverse weather conditions, producing big yields in both dry and wet conditions. Stores well. Grows vigorously in the spring, making this variety very good for bunching. Long day type.

## P ADAM

An early variety for spring sowing with pleasant delicate taste. In Central European conditions the harvest is around 15th July. It has smaller than average bulbs (30 to 50 g) with a fine white creamy skin. It contains 10 to 12 narrow curved cloves, with a light violet skin. ADAM is well adapted to low temperatures and is suitable for very early spring plantings. The most important advantages of this variety are long-term shelf life (bulbs can be successfully stored until the new harvest) and excellent plant health. Intermediate to long day type.



IVAN



KAREL IV.



ADAM



BYSTRIN F1

ODRIN F1

PRAGA

## Leek

*Allium porrum L.*



[More about all our Leeks](#)

Many years of our breeding has resulted in our three hybrid leeks. Their common feature is high yield, fast growth, and good health – all under the less favorable climatic conditions. The feedback of trials in many countries has been excellent. We expect these three hybrids to find their place in the market very quickly.

### BYSTRIN F1

A leek with a long white shank for early July harvest (in Central Europe conditions) also suitable for fields covering by row cover. BYSTRIN has showed very long field life - we can keep it on the field until autumn. The plants are very tall with light green and very upright leaves. BYSTRIN is very resistant to high temperatures and lodging.

- Growing period 75 days (from planting to time of first possible harvest in Central Europe)
- Length/diameter of the white shaft 45/3 cm
- Light green leaf

### MORAVIN F1

A medium tall and very fast growing leek for harvest from August through October (in conditions in Central Europe). The advantage of MORAVIN is high tolerance against diseases and thrips. It also tolerates both cold and high temperatures very well. Tolerant to lodging.

- Growing period 85 days (from planting to first possible harvest, valid for Central Europe)
- Length/diameter of the white shaft 35/5 cm
- Dark green leaf

### ODRIN F1

A winter variety with superior cold tolerance and a short but robust plant. It has a very strong root system and grows fast, even at low temperatures. In the spring it grows much faster than the Dutch varieties. ODRIN is also very resistant to bolting. Harvest November through April (in conditions in Central Europe). Resistant to lodging.

- Growing period 100–140 days (from planting to first possible harvest, valid for Central Europe, depends on day of planting)
- Length/diameter of the white shaft 30/6 cm
- Blue-green leaf



MORAVIN F1



ODRIN F1



SM-EPR

## Chives

*Allium schoenoprasum L.*



[More about all our Chives](#)

### PRAGA

An early chive with firm, dark green leaves and an intense chive aroma. Good for fresh market and potted plants.

### ERECTA

An early variety with thick, erected leaves. Delicious flavor, on the other hand the aroma is not as intense as PRAGA, making it very good for mixed vegetable salads. A perfect variety for both fresh and pot markets.

### P SM-EPR

Improved PRAGA variety with more uniform and more upright plant habit, straighter leaf and delicate taste. Adaptable for various climate and growing methods in both open field and green house including production of flower pots. Nice chive for flower pots and fresh consumption.

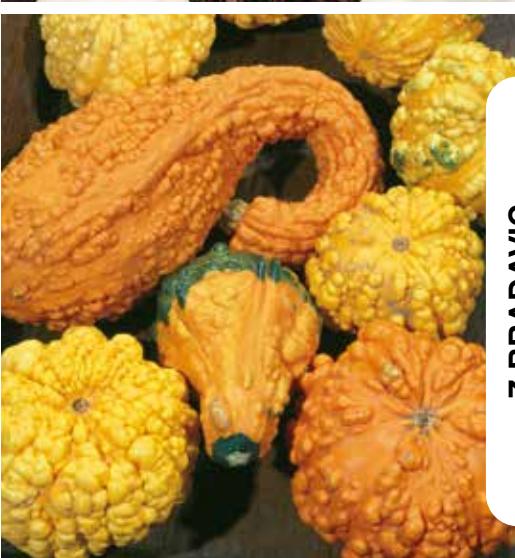
The seeds of this variety will also be available in organic quality for organic farming.



ANDELSKA KRIDLÁ



BABY BOO



Z BRADAVIC

## ANDELSKA KRIDLÁ

Attractive fruits with „wings“ that come in a mix of different colors (14–18 cm long).

## BABY BOO

Small, white, flattened round fruits (8–10 cm diameter).

## Z BRADAVIC

Fruits with warts that come in a mix of colors (15–20 cm long).

## CELEBRATION F1

Flatly round, creamy yellow fruits with orange stripes, excellent eating quality, diameter 8–10 cm. **Young fruits are suitable for consumption.**

## GALAXY OF STARS F1

A mix of star shaped fruits in various striped colors and bicolor patterns.

## JACK BE LITTLE

Orange, flattened round, deeply ribbed fruits (8–10 cm diameter).

# Gourd ornamental



## KACENKY

Yellow „crookneck“ shaped fruits (18–25 cm long).

## GA GA GA F1

Ornamental crookneck squash for both type of use. The young light yellow fruits with buttery flavor and firm texture are nice for cooking. Fully ripen golden-yellow blistered fruits can be used as very attractive autumn and winter decorations. The vigorous **bushy** plants offer fruits for long picking period. Weight of fruit is about 600 grams (size 25 x 8 cm).

**Young fruits are suitable for consumption.**

## MINI TURBAN

A very attractive miniature version of the famous Turkish Turban, diameter 13–18 cm.

## PEAR BICOLOR

Bicolor (green-yellow), pear shaped fruits (12–15 cm long).

## SWEET DUMPLING

Decorative fruit with excellent eating quality. Flattened round white fruits with green stripes (8–10 cm diameter).

**Young fruits are suitable for consumption.**

JACK BE LITTLE

GA GA GA F1

TRNOVA KORUNA





SMARAGDUS



KAMENEX



TITANUS

# Butterhead Lettuce

*Lactuca sativa L. var. capitata L.*



More about all our Butterheads

Our customers can choose from many varieties of butterhead, iceberg, leaf and cos/romaine lettuces. The common features of them all in PROFI series are:

- Good health (resistance to most important NL and BL races)
- Good field-holding ability
- Suitability for medium-term storage

We produce our lettuce seeds in Chile, where the optimal combination of high altitude, plenty of sunshine and low humidity typically result in seed lots with superior germination and seed health.

The seeds are produced in protected net houses and certified as 100% "LMV free". We offer not only NORMAL and PRECISION seeds but also pills/pellets. Seed pelleting of some of our varieties

## SMARAGDUS

A very early variety with small heads. Ideal for greenhouses and all types of indoor growing. All yearlong open field growing is also possible. SMARAGDUS is shiny yellow – green with slightly blistered leaf, 150–200 g attractive sturdy heads with good storability.

## KAMENEX

An early butterhead with sturdy green heads which hold well. Heads, 250–300 grams, are well-packed with smooth leaves. Universal lettuce for indoor and open field growing. Upright leaves increase its resistance to rot. A follower of our CITRIN variety. This fast-growing lettuce is very suitable for hydroponics.

## TITANUS

A mid-early upright, light green butterhead with smooth texture. Full size heads, 350–400 grams heads with excellent flavor and good storability. Ideal variety for spring and autumn field growing.

is made by the Dutch company INCOTEC. We offer „Split Pill“ 2.75 mm pills. You can find our pills offered in our price list for the current season.

Confidently like "The Magnificent seven" comes on the scene our new brand lettuces: butternut variety SMARAGDUS, KAMENEX, SAFIRUS, TITANUS, HAKON, SATURION and Batavia type lettuce – BATAVUS. All seven varieties are characterized by high resistance to bolting - they are suitable for all year growing. Next common feature is excellent health condition including resistance to Bremia Lactuca and also high tolerant to rot. New lettuces have strong but crispy leaves and they are tolerant to transport and storability.

## HAKON

A mid-late butterhead with large sturdy heads, 350–400 grams. Lettuce Hakon is yellow-green with slightly blistered leaves. It is adapted for all year growing, including summer and autumn plantings. It's very tolerant to rot. Hakon is a follower of our MARATON variety.

## SATURION

The optimal variety for a large family dinner. The heads of this butterhead weigh up to 600 grams. SATURION is a nice light green variety with smooth leaves. It is suitable for all year open field growing including summer plantings. Good storability, follower of the varieties MARS and MARSALUS. Nice lettuce also for processing industry. This fast-growing lettuce is very suitable for hydroponics.

## CERVANEK

This red-green butterhead lettuce is ideal for outdoor growing in the spring and autumn. Its blistered heads are firm and heavy (about 360 g). High tolerance to low and high temperatures and good tolerance to bolting. Red lettuce with excellent flavor and texture.



HAKON



SATURION



CERVANEK

## Butterhead Lettuce

Variety	Growing season (Central European conditions)				Hydroponics	Earliness	Head			High resistance to <i>Bremia lactucae</i> (races)	General remarks
	indoor	spring	summer	autumn			weight (g)	leaf surface texture	color		
BREMEX	👍👍	👍	👍👍	👍	👍👍	very early	175	slightly blistered	matt green	16-25	because of its extreme tolerance to bolting it is very suitable for growing in summer
SMARAGDUS	👍👍	👍	👍	👍	👍👍	very early	175	slightly blistered	yellow-green	16-26	very attractive firm heads, for greenhouses and for all year round field growing
KAMENEX	👍👍	👍👍	👍	👍👍	👍👍	early	275	smooth	matt green	16-26	universal lettuce for all year growing upright leaves increase resistance to rot, top choices for hydroponics
SAFIRUS	👍👍	👍👍	👍	👍👍	👍	early	325	slightly blistered	light green	16-20, 22-29, 31	shiny green lettuce with slightly blistered leaf tolerates stress well
MARS	👎	👍👍	👍👍	👍👍	👍	very early	340	smooth	green	16-21, 23-25	confirmed very fast growing lettuce mainly for summer growing
TITANUS	👍	👍👍	👍	👍👍	👎	mid-early	375	smooth	light green	16-26, 31	ideal lettuce for spring and autumn field growing very good storability
MERKURION	👎	👍👍	👍	👍👍	👎	mid-early	380	smooth	green	16-24	intermediate resistance to LMV, uniform sized heads
HAKON	👎	👍👍	👍	👍	👎	mid-late	400	slightly blistered	yellow-green	16-24	thanks to the proportion of the iceberg blood, it is very tolerant to high temperatures
SATURION	👎	👍👍	👍👍	👍👍	👎	mid-late	500	smooth	light green	16-26, 31	Intermediate resistance to LMV, high tolerance to high temperatures, top choices for hydroponics
CERVANEK	👍👍	👍👍	👎	👍👍	👎	early	360	slightly blistered	reddish	16-19, 21-25	attractive red color and delicious taste high tolerance to low and high temperatures
HUMIL	for open field overwintering			👎	early	340	slightly blistered	light green	not tested	confirmed for overwintering in the Central Europe and areas with a similar climate	👎 not suitable

MERKURION



BREMEX



MARS



HUMIL





GELBUS



MEDIMO



BATAVUS

## Lettuce – Cos, Iceberg, Batavia and Leaf type

*Lactuca sativa L.*



[More about all our Lettuces](#)

### GELBUS

A mid-early romaine with very attractive yellow-green leaves and intermediate resistance (IR) to LMV. Heads are well formed and weigh about 700–800 g. Good for spring and autumn production. Suitable for selling as individual heads as well as for indoor and outdoor baby leaf production. Young leaves are very firm and grow upright.

### MEDIMO

A mid-early Iceberg lettuce for all year production with extremely good bolting resistance. Well wrapped heads are uniform with slightly blistered leaves and average weight of more than 450 g. MEDIMO can be grown successfully in hot summers as it shows high tolerance to heat and intermediate resistance to Sclerotinia Rot and to LMV. MEDIMO is one of the most tolerant icebergs to Tipburn caused by lack of calcium uptake.

### BATAVUS

A Batavia type variety with many advantages and different types of uses including "cut and come again" harvesting. The leaves are curled, crunchy and juicy. BATAVUS creates open heads of upright curly leaves in winter or under very early spring indoor growing conditions. When grown later it forms firm and well-closed heads. BATAVUS is high heat resistant variety and can be grown from early spring to late autumn. It is nice breed for covered open field production first of all. Very healthy lettuce with good storability. This fast-growing lettuce is very suitable for hydroponics.

### DARK RODEN

A red Bowl type with big dark red leaves that resemble chicory but are less bitter. Makes a loose head of very curly leaves weighing over 400 grams. Very healthy plants. Mid-early variety for spring and autumn field planting.

### ZLATAVA

An early, yellow-green Lollo type, 380 grams, for spring, summer and autumn growing. Its tight curly leaves and very crisp and crunchy texture makes ZLATAVA excellent as a salad ingredient. This fast-growing lettuce is very suitable for hydroponics.

### DUBARED

A mid-early red Oak-leaf lettuce with really large heads, 480 grams. Attractive shiny lobed leaf is red and turning green towards the heart. A buttery texture and mild sweet flavor make DUBARED very suitable for all kinds of fresh use. High yielding variety with heat tolerance mainly recommended for spring and autumn growing.

### DUBAGOLD

A mid-early green Oak-leaf lettuce with really large heads, 500 grams. Shiny golden-green lobed leaves are soft and delicious. A buttery texture and never bitter flavor make DUBAGOLD very suitable for all kinds of fresh using including "cut and come again". High yielding variety with proven bolt resistance for year-round growing (spring, summer and autumn). Extended field and shelf life.

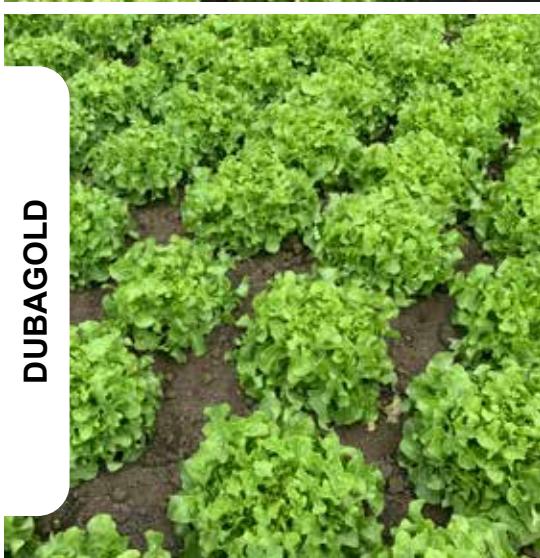
DARK RODEN



ZLATAVA



DUBAGOLD



## Leaf Lettuce

Variety	Growing season			Maturity	Head			High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf type	color		
RODEN				mid-early	400	BOWL	red	not tested	heat tolerant
DARK RODEN				mid-early	420	BOWL - CHICORY	dark red	16-25	dark red upright "chicory" type leaves
KARMINOVA				early	350	LOLO	dark red	not tested	LOLLO ROSSA for all season growing
ZLATAVA				early	380	LOLO	yellow-green	not tested	LOLLO BIONDA for all season growing, top choices for hydroponics
DUBARED				mid-early	480	OAKLEAF	red	16-23	heat tolerant, large heads
DUBAGOLD				mid-early	500	OAKLEAF	yellow-green	16-24	high bolting tolerance, large heads

## Iceberg and Batavia Lettuce

Variety	Growing season			Maturity	Head			High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf type	color		
<b>Iceberg Lettuce</b>									
MINIKO				very early	400	smooth	green	21, 24, 25	small firm head, excellent bolting tolerance
MEDIMO				mid-early	450	slightly blistered	green	17, 21	intermediate resistance (IR) to LMV, high level of tolerance to head rot
MAXIMO				mid-late	500	slightly blistered	green	17, 18, 21, 25	intermediate resistance (IR) to LMV, really large head, even for processing
<b>Batavia Lettuce</b>									
LEDANO				early	460	slightly blistered	yellow-green	17-18, 21-25	attractive yellow-green heads "BLONDE DE PARI" type
BATAVUS				mid-early	350	significant blistered leaves	green	16, 20-28, 30, 31	open heads in winter or early spring and well-closed heads from later growing, top choices for hydroponics

## Cos Lettuce

Variety	Growing season			Earliness	Head				High resistance to <i>Bremia lactucae</i> (races)	General remarks
	spring	summer	autumn		weight (g)	leaf surface texture	shape	color		
GLOBUS				mid-early	900	smooth	round	green	1, 2, 5-12, 16, 21, 24, 25	round head which is unusual for cos lettuce types also very good for baby leaf
GELBUS				mid-early	700	slightly blistered	oval	yellow green	1-25	intermediate resistance (IR) to LMV attractive color, crispy pleasant taste

very suitable

suitable

not suitable



KLARIA



AENEUS F1



ELISTA

## KLARIA

A mid-early variety of spring onion with American x Rijnsburger blood. The round bulbs have thick brown to yellow colored skins. KLARIA is very resistant to environmental stresses due to its strong roots. The leaves are very erect with thicker layer of wax and dry quickly. This results in high tolerance to Mildew. High yielding onion with good storability.

## AENEUS F1

A mid-early hybrid with an extensive root system and strong upright leaves combine American and Spain blood. The bulbs of AENEUS are uniform with thick bronze skin and thin necks that dry quickly. Suitable for long-term storage. Stable high yields, tolerance to dry condition, Mildew resistance and long storability are the main advantages of this hybrid.

## ELISTA

An early onion with bulbs of elongated shape. ELISTA has an attractive bronze skin and good storage ability. Chefs value this variety for its shape as it is ideal for slicing into uniform onion rings.

# Onion

*Allium cepa L.*



[More about all our Onions](#)

## KARMINKA

An early spring onion forming attractive elongated bulbs. The color of the skin and inner rings is intense red. Suitable for fresh market and often marketed as a set. Ideal for slicing into uniform onion rings. For medium-term storage.

## ALBIENKA

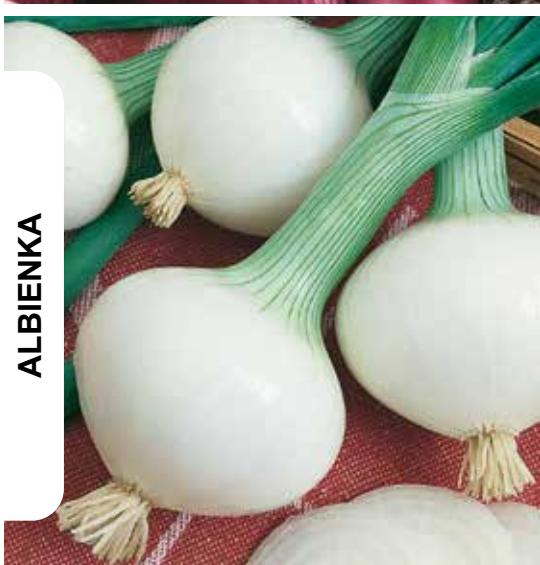
A mid-early variety with an attractive white skin. Flattened round bulbs are excellent for bunching and for pearl onions. ALBIENKA is also used for growing onion sets. Bulbs have high dry matter content (more than 14 %), making them suitable for processing, especially for drying. Suitable for short-term storage.

## WINTERIA

Our new mid-early overwintering onion with stable high yield even in stressful conditions. The uniform bulbs are nice, globe shaped with firm yellow skin. WINTERIA offers very strong winter hardness and is also very tolerant to bolting. Suitable for medium-term storage.



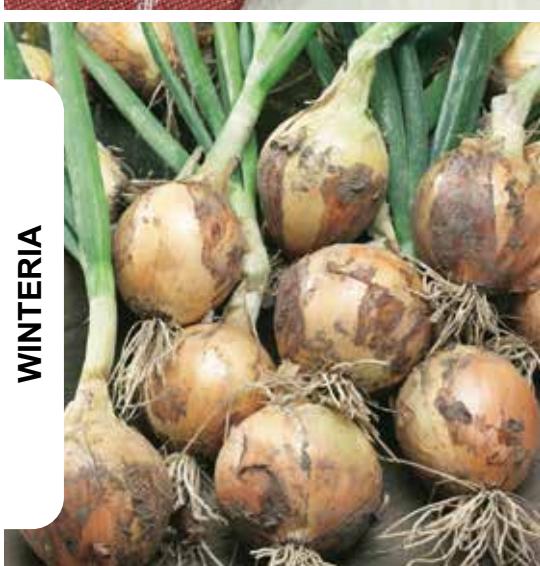
KARMINKA



ALBIENKA



GLOBO



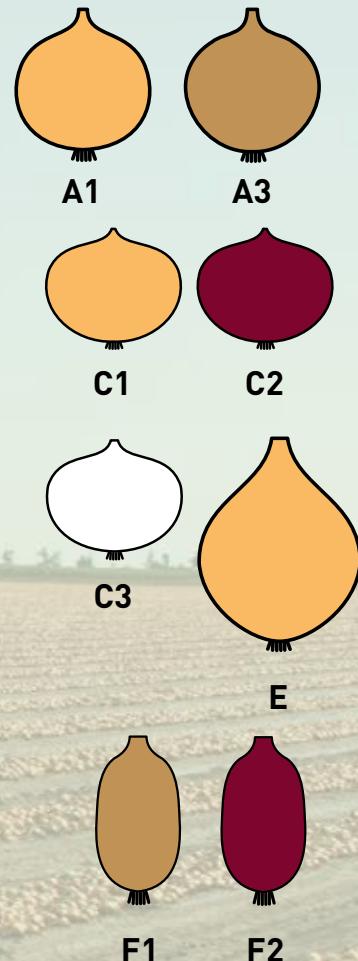
WINTERIA

ALICE

# Onion

\* valid for central Europe conditions

Variety	Type	Growing period from sowing (days) *	Skin color	Bulb shape	Dry matter %	Bulb weight (g)	Storage (1 - 10) 1=very short 10=very long	Recommended sowing rate (UNIT/ha) 1 UNIT = 250 000 s
For spring sowing *								
<b>GLOBO</b>	intermediate day	117	yellow	round	E	10.4	400	3 2.0 - 3.0 UNIT
<b>LUSY</b>	long day	120	yellow-bronze	round	A1	12.0	130	7 3.5 - 4.0 UNIT
<b>ALICE</b>	long day	123	yellow	round	A1	12.4	130	7 3.5 - 4.0 UNIT
<b>DAGMAR</b>	long day	125	bronze	round	A3	11.6	140	6 3.0 - 3.5 UNIT
<b>KLARIA</b>	long day	126	bronze	round	A3	14.0	165	8 3.0 - 3.5 UNIT
<b>WELLINA</b>	long day	130	yellow	round	A1	14.0	125	7 3.0 - 3.5 UNIT
<b>AENEUS F1</b>	long day	135	bronze	round	A3	14.5	160	8 3.0 - 3.5 UNIT
<b>ELISTA</b>	long day	122	bronze	elliptic	F1	13.0	110	6 4.0 - 4.5 UNIT
<b>ALBIENKA</b>	long day	125	white	flattened round	C3	14.0	105	4 3.5 - 4.0 UNIT
<b>KARMEN</b>	long day	126	red	flattened round	C2	13.8	110	7 3.5 - 4.0 UNIT
<b>KARMINKA</b>	long day	120	red	elliptic	F2	13.2	90	6 4.0 - 4.5 UNIT
For overwintering *								
<b>SENSHYU YELLOW</b>	short day	early	yellow	flattened round	C1	10.5	110	3 4.0 - 4.5 UNIT
<b>AUGUSTA</b>	short day	mid-early	yellow	flattened round	C1	10.5	110	3 4.0 - 4.5 UNIT
<b>WINTERIA</b>	short day	mid-early	yellow	round	A1	11.0	115	4 4.0 - 4.5 UNIT



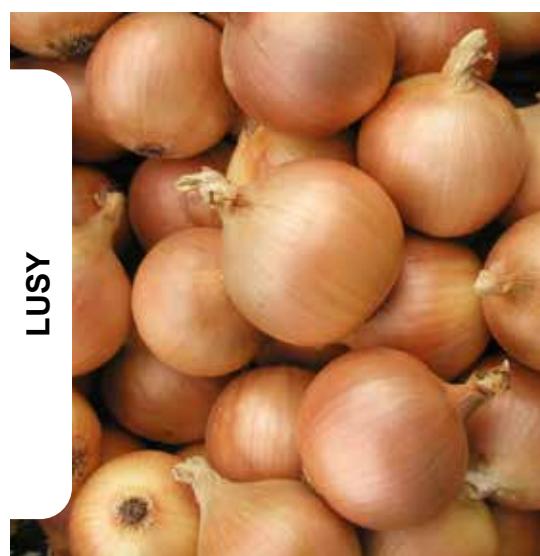
CHARLOTKA (SM-C901/2020)

**CHARLOTKA (SM-C901/2020)**  
Our early shallot intended for growing from seeds only. Its attractive nearly round reddish-copper bulbs have a width of 5-6 cm a height of 3.5-4.5 cm and an average weight of 70 grams. CHARLOTKA is characterized by its mild onion taste and very long storability.

## Shallot

*Allium cepa L. var.aggregatum*

Shallots are a staple in culinary applications, prized for their mild, sweet flavor. Planting can occur in autumn for overwintering or in early spring, depending on the climate. Shallots are well-suited for spring sowing in Central Europe and regions with similar climates. They can be grown from seeds or sets. Proper spacing and care ensure a bountiful harvest, typically ready in late summer. Once cured, shallots store well for many months, providing a lasting addition to the kitchen.



LUSY



SNOW QUEEN F1



GERDA



CONCERT

## Bunching Onion

(*Allium fistulosum*)



[More about all our Bunching Onions](#)

### SNOW QUEEN F1

A very early hybrid producing fine shanks with dark green leaves. Suitable for production in the autumn and spring. High uniformity and cold tolerance are the main advantages of this bunching onion.

### GERDA

A very early variety (70 days in conditions of Central Europe) with a delicious taste and dark green, upright foliage. White shanks are 8–10 cm long. The big advantages of GERDA are very early maturity and high resistance to stress. GERDA is also tolerant to low and high temperatures. Suitable for year-round growing, especially for early spring sowing. Not intended for overwintering but in Mediterranean and regions with a similar mild climate it survives winter very well. An excellent variety overall.

### KAJ

KAJ is a mid-early variety (80 days in conditions of Central Europe) with upright leaves. Can grow up to 70 cm with white shanks about 10–12 cm long that make KAJ particularly nice for bunching. Widely adapted and suitable for spring to autumn harvest. Deep green leaves have thicker waxy layer than other varieties, making this variety more resistant to Downy Mildew than typical bunching onions. Its high tolerance to fungal diseases makes it good choice for summer sowing, where there is a greater likelihood of fungal diseases. Not intended for overwintering but in Mediterranean and regions with mild climates it survives winter well.



KAJ

## Parsley-leaf

(*Petroselinum crispum* (Mill.))



[More about all our Parslies](#)

### CONCERT

Our new leaf parsley was created by selecting from the FESTIVAL variety. It has retained a high yield of dark leaves, which are suitable for mechanized harvesting and subsequent processing. The health status has been improved, especially with high tolerance to Powdery mildew and Septoria. Resistance to flowering has also been strengthened.

### FESTIVAL 68

A vigorous plant with numerous dark green leaves and great flavor. FESTIVAL 68 is resistant to Powdery Mildew and Septoria. This high yielding variety is suitable for both fresh market and processing, especially drying.

### MARUNKA

A Mooskrause type variety for indoor and outdoor production. High yielding, medium green, very curly tops on upright plants. Leaves are resistant to Mildews. MARUNKA is suitable for fresh use and for drying. First harvest in 95 days from sowing (Central European conditions).



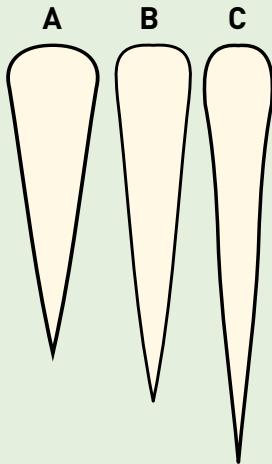
MARUNKA



KUDRNKA

### KUDRNKA

A Paramount type with dark green, highly curled leaves on long leafstalks. Tops are semi-upright. They do not lodge in rain, and are resistant to Powdery Mildew. Suitable for spring and summer sowings and for indoor growing. Excellent for fresh use and for drying. Good for bunching. First harvest in 95 days after sowing (Central European conditions).



ATIKA

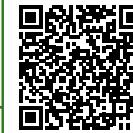
## ATIKA

An early variety of root parsley with high resistance to Powdery Mildew. The fast growing conical roots are shiny, white and very smooth. The tops are medium tall. Excellent for bunching. ATIKA stores very well and is also suitable for processing, especially drying. ATIKA has shown very high tolerance to root Rot, even in wet years and in heavy soils.

## Parsley - root

*Petroselinum crispum* (Mill.)

More about all our Parslies



## EFEZ

A mid-late high yielding variety that stores well and is tolerant (IR) to Powdery Mildew, Rust, Rot and also against Bacteriosis. The roots are smooth, wide and 20–23 cm long. Suitable for bunching and for long-term storage. In lower sowing density (till 0.8 million seed/hectare) EFEZ creates very large roots that are perfect for processing. Worldwide (known) parsley with the healthiest and most shiny leaves.

EFEZ



## ORBIS

A mid-early variety characterized by healthy plants and high yields. Dark green upright tops with medium long conical roots. ORBIS performs well in heavy soils. ORBIS is suitable for long-term storage and for all types of processing.

ORBIS



## TROJA

TROJA produces good yields of smooth wide big roots with short but strong leaves. Mid-late maturity. TROJA is good for long-term storage. Plants are healthy and offer high tolerance (IR) to Powdery Mildew and Bacteriosis. We can also recommend it even for growing in heavy soil.

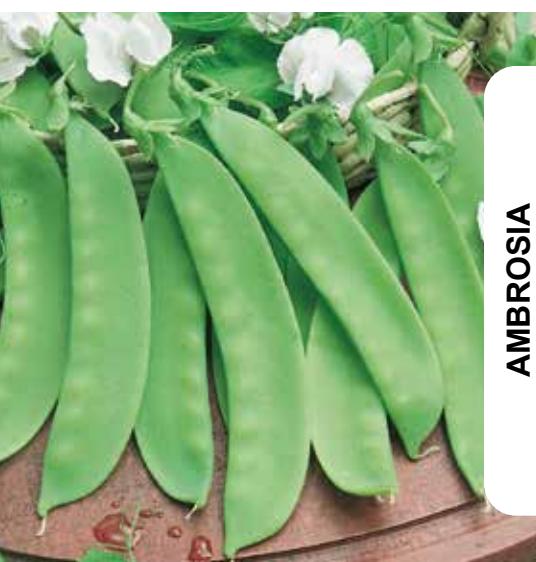
TROJA

Variety	Maturity	Days from sowing to harvest* (days)	Root			Tops	Recommended sowing rate (million seeds/ha)		General remarks
			shape	length (cm)	storage		NORMAL precision seed	PRIMED precision seed	
ATIKA	early	170	B	19 - 22	long-term	medium	1.0 - 1.2	0.8 - 1.0	resistant to root Rot, perfect for bunching, very smooth roots
ORBIS	mid-early	182	B	20 - 22	long-term	high	1.0 - 1.2	0.8 - 1.0	high yielding grows well even in heavy soils
EFEZ	mid-late	185	A	20 - 23	long-term	high	1.0 - 1.2 (0.8 for processing)	0.8 - 1.0	resistant to root Rot and Powdery Mildew, grows well even in heavy soils, the parsley with the healthiest and shiniest leaf
TROJA	mid-late	185	A	20 - 21	extremely long-term	medium	1.0 - 1.2	0.8 - 1.0	healthy variety including tolerance to Bacteriosis, grows very well even in heavy soils
JADRAN	late	193	C	20 - 22	long-term	high	1.1 - 1.3	0.9 - 1.1	resistant to Powdery Mildew, very good for sandy soils
OLOMOUCKA DLOUHA	late	200	C	21 - 23	long-term	medium	1.1 - 1.3	0.9 - 1.1	traditional variety, very long roots

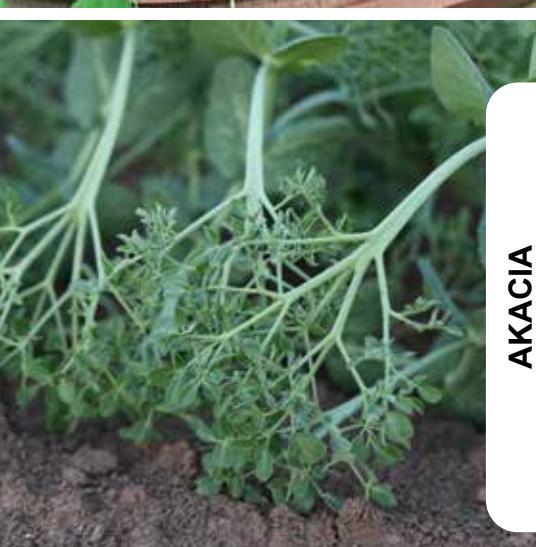
\* valid for central Europe conditions



DLOUHY BILY



AMBROSIA



AKACIA

## Parsnip

*Pastinaca sativa L.*



More about all our Parsnips

### DLOUHY BILY

DLOUHY BILY is vigorous and produces high yields of long, sharply pointed 25–30 cm white roots. Good disease resistance. Excellent for fresh market as well as for processing, especially drying. Stores very well. Approximately 200 days from sowing to harvest (in Central European conditions).

### BIELAS

Earlier than DLOUHY BILY (about 180 days from sowing in Central European conditions). Vigorous foliage and smooth wide conical roots. Suitable for fresh market, long-term storage and all types of processing.

We also offer parsnip seeds as primed pellets.



BIELAS



## Sugar Pea

(substitutes – Snap Pea, Snow pea)

*Pisum sativum L. convar. axiphium Alef. Emend C.O. Lehm*



### AMBROSIA

A very tasty mid-early variety with a bushy (dwarf) growth habit. Good yields of pale green pods. Maturity in 55 days from sowing (Central European conditions).

### SWEET SALOME

Snap pea variety to be grown with support. Very large, light green pods (9 cm long and 3 cm diameter) have a delicious sweet taste. Suitable for fresh market. Maturity in 60 days from sowing (in Central European conditions).



SWEET SALOME

## Parsley (curled) Pea

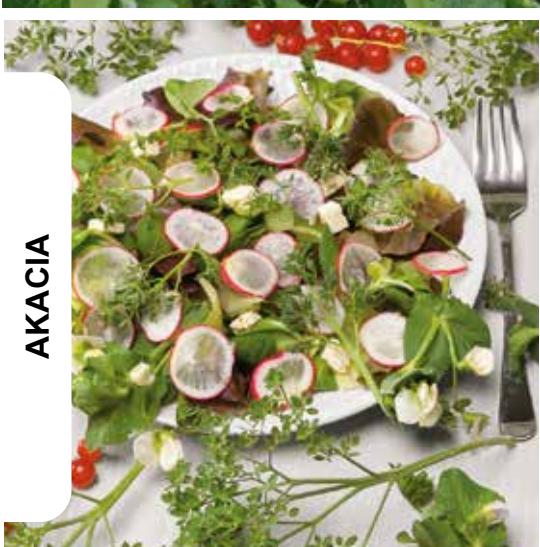
*Pisum sativum convar. sativum*



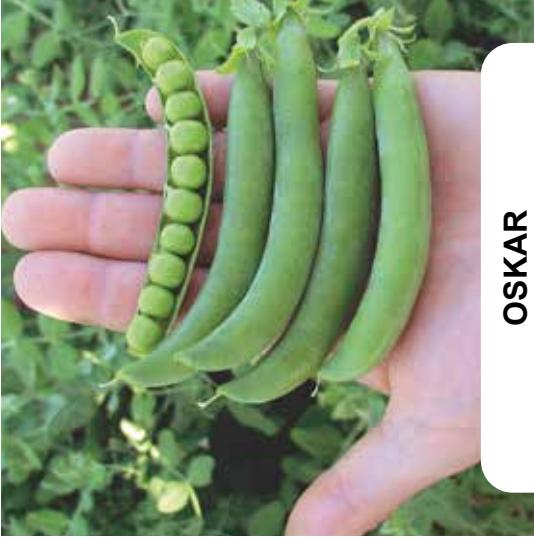
### N AKACIA

Special "parsley" pea variety for harvest of pea shoots. The name of the variety comes from a certain similarity with acacia leaves. The shoots of pea AKACIA form branched rosettes of tiny leaves. The shoots are cut at young stage when they have sweet pea flavor. They are both tasty and decorative and offer many types of use. They can flavor and decorate salads or create a wonderful

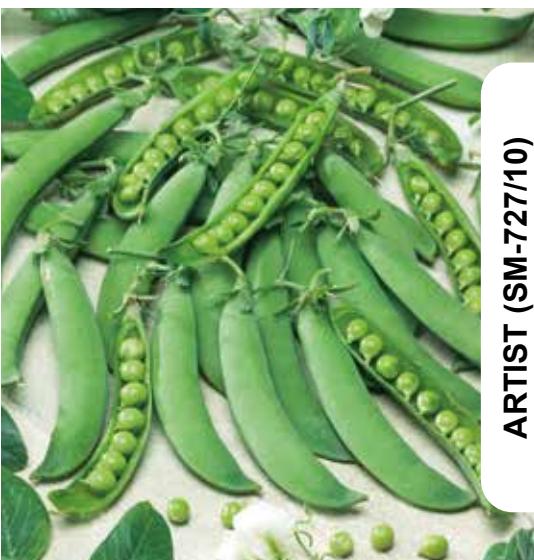
vegetable garnish. It will be appreciated by amateur gardeners or cooks as well as restaurateurs and professional chefs. Larger round seeds can also be used - the tastiest are from young pods. Fully ripe pods with dry yellowish seeds inside can be used for cooking – soups, purees etc. Among the advantages of the AKACIA is the upright Afila type non-sloping growth and good disease package.



AKACIA



OSKAR



ARTIST (SM-727/10)



TWINSET

## Green Pea

(substitutes - Wrinkled Pea, Shelling Pea)

*Pisum sativum L. convar. *medullare* Alef. Emend C.O. Lehm.*

More about all our Wrinkled Pea



SEMO offers a complete range of green pea varieties, from small to large seeded and from very early to late. The range includes top quality, very early varieties for fresh market, freezing and canning. The breeding program has put great emphasis on plant health, including resistance to Fusarium Oxysporum, Powdery Mildew, PEMV (Pea enation mosaic virus), PSbMV (Pea Seed-borne Mosaic Virus) and other diseases.

### OSKAR

This is our most popular shelling pea variety. It is high yielding, very early and has long pods with large seeds. Ideal for both hand picking and mechanized harvest. This best-selling variety has proven its suitability under very variable climatic conditions and has shown to perform well in Northern Europe as well as in Mediterranean areas.

### N ARTIST (SM 727/10)

Our long-awaited very early pea of the new generation with a large pod and grains. It is intended for harvesting of whole pods as well as for combine harvesting and subsequent canning or freezing. The important advantage is excellent health including resistance (HR) to Fusarium, Powdery Mildew and PSbMV. ARTIST provides stable high yields and tolerance to environmental stresses.

### TWINSET

A mid-late, big seeded variety with large blunt pods. High yields and long, straight pods (9 cm) make TWINSET ideal for both manual and mechanized harvests. Nice resistance package - HR: Fusarium, Erysiphe pisi an PSbMV.

### N ANTONY

An early Afila type with perfect health, high stable yield and very uniform pods ripening. This pea of the new generation brings, above all, perfect raw material for canning and freezing. It retains its dark color and sweet taste even after processing. The long pod and large grains certainly attract attention even for harvesting pods for the fresh market. Excellent resistance package - HR: Fusarium, Erysiphe pisi, PSbMV, PEMV and IR: Powdery Mildew.

### N MEDUZA

MEDUZA is another variety of new generation. It comes from our breeding program too. It is mid-early Afila type variety. Perfect pea quality and stable, very high yield even in unfavorable growing conditions. Variety for the production of canned and especially frozen green peas. Its excellent taste and beautiful dark pods will definitely be appreciated also by the fresh market.

Extended resistance package - HR: Fusarium, Powdery Mildew, Erysiphe pisi, PEMV and IR: Powdery Mildew.

### P HARDROCK (SM 791/15)

The name says it all. Simply an aggressive and resistant variety that will not leave anyone cold. This new mid-early leaf-type pea variety consistently achieves top yields. Its exceptional resilience ensures outstanding performance across diverse growing seasons and delivers impressive yields even under less favorable conditions. Characterized by vigorous and sturdy growth, HARD ROCK maintains excellent plant health. It boasts resistance to Fusarium oxysporum, Powdery mildew, and Pea Seed-borne Mosaic Virus (PSbMV).



ANTONY



MEDUZA



HARDROCK (SM 791/15)

## Green pea

Variety	Growing period from sowing to harvest		Plant Recommended for				Pod		Seed			
	in heat units (°C)	relative to AVOLA (days)	leaf type	height (cm)	first fertile node	number of pods per node	length (cm) summer season	shape	number of peas	TSW** of dry seeds (g)	color	Ø (mm)
<b>AVOLA our own selection</b>	660	0	normal	65 - 75	8	1	8	blunt	7 - 8	210	dark	9,7
<b>JUNOS</b>	684	+2	normal	65 - 75	8	1	9	pointed	8 - 10	195	dark	9,7
<b>OSKAR</b>	684	+2	normal	70 - 80	8	2	9	pointed	8 - 10	220	dark	9,7
<b>N ARTIST (SM 727/10)</b>	690	+2	normal	60 - 70	8	2	9	pointed	8 - 10	200	dark	9,6
<b>DRAGON</b>	710	+4	normal	65 - 75	9	2	6	blunt	6 - 7	130	dark	8,6
<b>VLADAN</b>	733	+4	normal	65 - 75	9	2	7	blunt	5 - 6	230	dark	9,7
<b>N ANTONY</b>	744	+5	afila	35 - 45	10	2	9	blunt	8 - 10	190	dark	9,5
<b>N MEDUZA</b>	761	+6	afila	35 - 45	10	2	8,5	blunt	7 - 9	195	dark	9,5
<b>P HARDROCK (SM 791/15)</b>	795	+9	normal	55 - 65	11	2	8,5	blunt	7 - 9	195	dark	9,2
<b>RADOVAN</b>	833	+13	normal	70 - 85	12	2	7,5	pointed	7 - 9	190	dark	9,6
<b>JOHAN</b>	848	+14	normal	60 - 80	13	2	9	pointed	8 - 10	185	dark	9,8
<b>WIKI</b>	860	+14	normal	70 - 90	14	2	8	blunt	8 - 10	170	dark	9,9
<b>CETRIS</b>	866	+14	normal	65 - 75	12	2 - 3	7	blunt	6 - 8	115	dark	8,5
<b>TWINSET</b>	883	+15	normal	60 - 75	13	2	9	blunt	8 - 10	190	dark	9,1
<b>CEDRIK</b>	897	+17	normal	80 - 100	16	2	9	blunt	7 - 8	210	dark	9,8
<b>RADIM</b>	900	+18	normal	60 - 70	15	2	9	pointed	8 - 10	185	dark	8,9
<b>DALILA</b>	917	+19	normal	70 - 80	14	2	7	blunt	6 - 8	200	dark	9,9
<b>AMYLAN</b>	-	-	afila	80 - 100	15	2	8	blunt	6-8	195	dark	-

Recommended use		Resistance						General remarks
harvest of whole pods	mechanical harvest for canning or freezing	Fop1	Fop2	Ep	Pv	PSbMV	PEMV	
		IR						the earliest well-known variety, our own selection of AVOLA
		IR						slowly over ripening green pea, perfect for home gardens
		HR	IR					big pods, stable yield, tolerant to both low and high temperatures
		HR	HR	HR		HR		new generation of early green pea, strong health, for both fresh market and industry
		IR	HR					high yielding variety with fine, very tasty seed, especially for freezing
		HR	HR					thick stem, dark leaf, rich root system = performs well even in dry conditions
		HR	HR	HR	IR	HR	HR	early Afila with perfect health, high stable yield and very uniform ripening
		HR	HR	HR	IR		HR	mid-early Afila, high yield, perfect pea quality, bred for freezing industry
		HR	HR	HR	IR	HR		mid-early leaf-type variety, excellent health
		HR						stable high yield even in poor conditions and seasons, high lodging resistance
		HR	IR	HR		HR		highly recommended for both – fresh market (because of big straight pods) and processing
		HR	IR	HR		HR		nice results even in poor seasons, popular with canneries and freezers
		HR	HR					"petit pois" type, three pods per pod also interesting for the fresh pods market
		HR	IR	HR		HR		high yielding with long, straight pod, nice for both fresh market and industry
		HR	IR	HR		HR	HR	really strong plant, nice for fields without irrigation, stress tolerant variety
		IR						dark green, late variety with a long pod, for both canning and also processing industry
		HR						popular late green pea with large blunt pods, high yield and healthy plants
	for canning after blanching	HR						special green pea for harvest in dry maturity when it is high in amylose and suitable for processing in the food industry

very suitable  
 suitable  
 not suitable

**Legend:**

**Resistances:**

**Fop 1** = Fusarium oxysporum f. sp. pisi Race 1  
 (Fusarium wilt)  
**Fop 2** = Fusarium oxysporum f. sp. pisi Race 2  
**Ep** = Erysiphe pisi  
 (Powdery mildew)  
**Pv** = Peronospora viciae  
 (Downy mildew)  
**PSbMV** = Pea Seed-borne Mosaic Virus  
**PEMV** = Pea enation mosaic Virus

**Definition according to ISF rules**  
 (International Seed Federation):

**IR** = intermediate/  
 moderate resistance  
**HR** = high / standard  
 resistance

\*\* Thousand seed weight



RAFAELUS F1



SLAVUS F1



GOLDUS F1

## Sweet pepper

*Capsicum annuum L. (partim)*



More about all our Peppers

Peppers are one of SEMO's most important crops. We offer a wide range of pepper types. Every year our breeding program introduces new varieties with a main focus on „Hungarian“ and green pyramid-shaped peppers. Our sweet assortment includes blocky, kapia and snack type of peppers. We also offer a wide range of hot peppers (chilis).

### RAFAELUS F1

A very early kapia type pepper with wider pyramidal fruits. RAFAELUS is primarily intended for harvesting fruits in botanical maturity – dark red. Solid fruits tolerate transport and short-term storage. They are suitable for fresh market as well as for canning or freezing. Sweet pepper RAFAELUS is characterized by stable high yield and tolerance to fungal diseases and Bacteriosis.

### SLAVUS F1

A new widely adaptable hybrid with excellent fruit uniformity and continuous production during the entire growing season. Perfect in hoop houses and the open field. Wide conical fruits ripen from green to red. Good for harvesting at green and red stages for the fresh market. A very promising pepper, especially for intensive field growing.

### GOLDUS F1

A new hybrid with heavy, thick-walled fruits. It ripens from green to yellow and is well marketable at both colors. Green fruits are very suitable for transport and medium term storage. Excellent for "green" fruit harvest in the open field. GOLDUS is also very suitable for low-tech greenhouses and unheated hoop houses. It is tolerant to heat and cold stress.

### N KAPINUS F1 (SM-KAP)

This variety is a true kapia-type pepper, characterized by its firm fruit. It is primarily intended for harvest at full botanical maturity, offering slender, dark red fruits ideal for both fresh market and canning purposes. This pepper variety exhibits excellent tolerance to transportation and short-term storage. Additionally, it boasts a robust health profile, including high resistance to bacterial diseases.

### RADUZA F1

Raduza's sweet fruits may be harvested in both green and red. The strong plants have intermediate resistance against Fusarium, White Mold (*Sclerotinia sclerotiorum*), *Vetricilliu* spp. and *Didymella lycopersici*.

### SLOVANUS F1

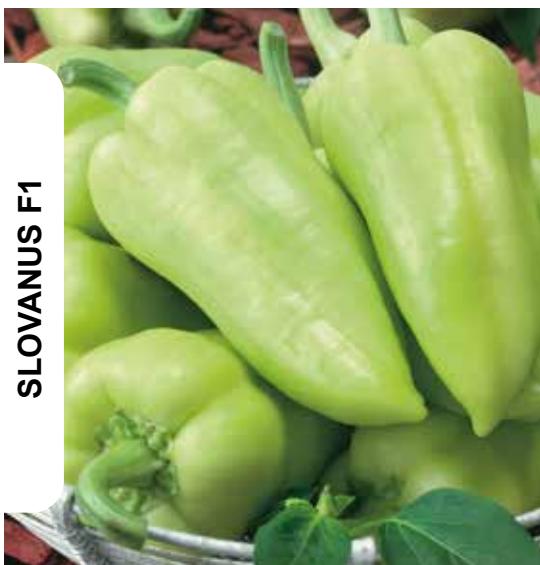
SLOVANUS is our improved SLOVANA type pepper. Its conical fruits ripen from light green to white (in full technical maturity). Its extreme earliness and high yield potential make it an excellent choice for the fresh market. SLOVANUS can produce very big yields but, like SLOVANA, it also requires inputs like drip irrigation with fertilization and regular harvesting to reach its full potential.

### AMY

Farmers refer to this very popular variety as the „Queen“ of field peppers. The fruits are of the pyramid type and have a good flavor. Starts as creamy white, which is the color when it is marketed, and eventually ripens to a light red. AMY is a reliably good yielding variety and has excellent plant health. Fruits of AMY are also perfect for stuffing and freezing as the fruits do not become bitter when frozen.



KAPINUS F1 (SM-KAP)



SLOVANUS F1



AMY





AMYKUS F1



TORINUS F1 (SM-TOR)



ORENY F1

## AMYKUS F1

A last member of „AMY“ family. Its conical fruits are longer than the fruits of the other „AMY“ types. Juicy, creamy white fruits are very attractive for the fresh market. A significant advantage of this variety is its strong leaf canopy which protects the fruits from sunburn. Yields very well in intensive growing conditions in open field or unheated hoophouse with drip irrigation but has also proven to be very reliable under less favorable growing conditions. Therefore it is also suitable for smaller, lower tech growers.

## N TORINUS F1 (SM-TOR)

It is intended for harvesting at both technical (light green) and botanical (red) maturity. It is an Italian-type pepper (so-called Italian frying pepper) with a flattened and very long cone-shaped fruit (20-25 cm). The fruit reaches a weight of about 180 grams. TORINUS is suitable for fresh eating including side dishes or salads. But primarily this type of pepper is intended for grilling, frying or other kitchen processing during which its rich taste stands out. The advantages of this variety include a high yield of attractive fruits and good health.

## RUBIKA F1

A hybrid for both greenhouse and hoophouse production. RUBIKA can be grown successfully in the open field as it is well-adapted for cold climates. Fruits are big, thick-fleshed and blocky, ripening from deep green to dark red. They are normally harvested at the red stage. Good for shipping and short term storage.

## ORENY F1

A hybrid with a short to medium growth habit suitable for growing in greenhouses and hoophouses. Its large blocky fruits with thick-walls ripen from dark green to bright orange and are suitable for fresh market sales. ORENY may be harvested at both green and red stages. Plants are highly resistant to Tm 0.

## SPIRALUS

An early sweet pepper with long ram horn fruits that have average length 20–25 cm. The fruits start very light green (close to a wax type) and turn to red. Healthy and high yielding, SPIRALUS is good for fresh market and processing, especially for pickling of whole fruits as the flesh stays nice and crunchy after processing. SPIRALUS has shown very good results in open field and plastic hoophouse but may also be grown in the greenhouse.

## BELOROZEC

A long (over 20 cm), straight „banana“ type with thick flesh (4 mm) and an average weight of 100 g. The fruits are very attractive and start from creamy white, which is when we recommend harvesting them, and ripen to light red. Widely adapted and easy to grow in various climates. Suitable for hoophouses and open field.

## HAMIK

Worldwide, HAMIK is the most delicious „snack pepper“ for indoor and outdoor production. The fruits ripen from dark green to bright orange, and are almost seedless. When the thick-fleshed fruits turn an orange color, they grow exceptionally sweet and are highly recommended for fresh market. HAMIK is also perfect variety for production of „antipastas“ as the stuffed canned fruits are extremely tasty. New snack peppers (red and yellow) are in our product development program and we hope to introduce them soon.

## P REDHAMI

The newest member of our snack pepper or mini Luchbox peppers family. Similar to its world-famous orange brother HAMIK the new REDHAMI is also characterized by its exceptional sweetness. The juicy fruits are nearly seedless and slightly smaller than the HAMIK snack pepper. In addition to fresh market sales, where it stands out both individually and in mixed-color boxes, REDHAMI is also excellent for stuffing, pickling, or as a component in antipasti. REDHAMI is just a pepper that is definitely worth trying !

SPIRALUS



HAMIK



REDHAMI



## Sweet pepper

Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	number of lobes	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	

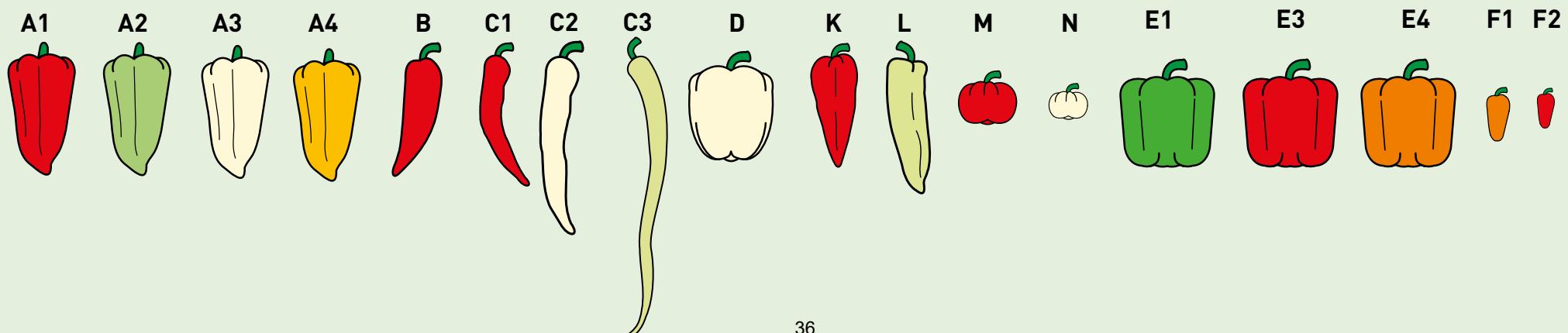
### Kapia type

RAFAELUS F1	very early	medium	green	dark red	2-3	K	6	17 x 8	140	👎	👍👍	👍👍	👍	👎	stable high yield and high tolerance to fungal diseases and Bacteriosis, HR ToMV 0-2
RADMILA F1	early	high	green	red	2-3	B	5	18 x 7	120	👍	👍👍	👍👍	👍	👍	flattened "Kapia" fruit, good for roasting and frying
KAPINUS F1 (SM KAP)	mid-early	medium	dark green	dark red	2	B	4	14 x 5	100	👎	👍👍	👍👍	👍	👎	a true Kapi pepper with a very firm fruit, excellent for canning
DERMA	mid-early	medium	green	dark red	2-3	K	6	20 x 7	160	👍	👍👍	👍👍	👍	👎	nice for both fresh market and processing, especially for slicing HR, ToMV 0-2

### Green to light green pyramid type

LUNGY F1	very early	high	green	dark red	2-3	A2	4	17 x 7	120	👍👍	👍👍	👍👍	👍👍	👍	very early pepper, for both green and red harvest
SLAVUS F1	very early	high	green	red	3	A2	5	17 x 7	140	👍👍	👍	👍👍	👍👍	👍	highly adaptable, uniform fruits, high fruit-setting for all season
GOLDUS F1	early	medium	green	yellow	3	A3	6	15 x 8	150	👍👍	👍👍	👍👍	👍👍	👍	green fruits are very suitable for transport and storage
IVICA F1	early	high	green	yellow-orange	2-3	A4	6	15 x 8	160	👎	👍👍	👍	👍👍	👍	nice golden fruits with sweet flavor
DILARA ZEL F1	early	medium	light green	red	3	L	6	19 x 7	220	👍👍	👍👍	👍	👍	👍	big fruits are ideal for both fresh market and processing, HR ToMV 0-2, IR PMMV
RADUZA F1	early	medium	green	dark red	3	A1	6	15 x 8	120	👍👍	👍👍	👍👍	👍	👍	an excellent all-purpose soldier for both green and red harvest

👍👍 very suitable    👍 suitable    👎 not suitable



# Sweet pepper

Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	number of lobes	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	
<b>Creamy white pyramid ( „Hungarian“ ) type</b>															
<b>SLOVANUS F1</b>	very early	high	white-slightly green	red	3	A3	5	17 x 8	130	👍👍	👍	👍👍	👍👍	👍	extreme earliness and high yield potential of very juicy fruits
<b>AMY</b>	early	short	creamy white	light red	2 - 3	A3	5	14 x 7	100	👍👍	👎	👍👍	👍	👎	“Queen of field peppers” also nice for stuffing and freezing
<b>AMYKA F1</b>	early	medium	creamy white	light red	3 - 4	A3	6	14 x 7	120	👍👍	👎	👍👍	👍👍	👍	big harvests of uniform fruits, also nice for stuffing and freezing HR, ToMV 0-2
<b>AMYKUS F1</b>	early	high	creamy white	light red	3 - 4	A3	6	16 x 8	130	👍👍	👎	👍👍	👍👍	👍	strong leaf canopy - protects the nice white fruits from sunburn
<b>Blocky type</b>															
<b>SASKIA F1</b>	early	medium	apple green	red	3 - 4	E1	6	12 x 8	220	👍👍	👍	👍👍	👍👍	👍	attractive color, delicious taste, also suitable for subtropics
<b>KVADRY F1</b>	early	medium	creamy white	light red	3 - 4	D	6	11 x 8	200	👍👍	👎	👍👍	👍👍	👍	white blocky hybrid suitable also for open field
<b>RUBIKA F1</b>	mid-early	medium	dark green	dark red	4	E3	6	12 x 9	250	👍	👍👍	👍👍	👍	👍	green-red blocky hybrid wildly adapted for cold climates HR, ToMV 0-2
<b>ORENY F1</b>	mid-early	short	dark green	orange	3 - 4	E4	6	10 x 9	200	👍	👍👍	👍	👍	👍	very tolerant to high temperatures, also suitable for subtropics HR, ToMV 0-2
<b>Other types</b>															
<b>TAMINA F1</b>	early	high	green	dark red	3	M	6	diameter 8	110	👍	👍👍	👍👍	👍	👎	“tomato pepper”, very juicy, nice for stuffing
<b>SEMAROH</b>	early	medium	light green	red	2	C1	3 - 4	16 x 3	80	👍👍	👍	👍👍	👍	👍	large “ram’s horn” variety for both fresh market and canning
<b>SPIRALUS</b>	early	high	creamy white	red	2	C3	2	22 x 1	40	👍👍	👍	👍	👍	👍	slim, slightly twisted “ram’s horn”, nice for canning of whole fruits
<b>TORINUS F1 (SM TOR)</b>	early	medium	light green	red	3	L	4 - 5	23 x 6	180	👍👍	👍	👍	👍	👍	large fruit with a long, conical shape, suitable for harvest at both green and red maturity stages
<b>BELOROZEC</b>	mid-early	high	creamy white	light red	2	C2	3 - 4	22 x 4	100	👍👍	👍	👍	👍	👍	very long juicy fruits “banana” type
<b>JABLINA F1</b>	mid-early	medium	creamy white	yellow - orange	3 - 5	N	4 - 5	diameter 5	80	👍👍	👎	👍	👍	👎	“apple” type, very juicy nice for stuffing
<b>HAMIK</b>	mid-late	medium	dark green	orange	2 - 3	F1	3	6 x 3	40	👎	👍	👍	👍	👍	the best orange snack pepper, delicious flavor, nearly seedless HR ToMV 0-2
<b>P REDHAMI</b>	mid-late	medium	dark green	red	2 - 3	F2	3	5.5 x 2.5	30	👎	👍	👍	👍	👍	new red snack pepper, delicious flavor, nearly seedless, HR ToMV 0-2

👍👍 very suitable    👍 suitable    👎 not suitable



SOMBORIUS F1



DRAKY F1



OHNIVEC

## Hot pepper

*Hot pepper (Capsicum annuum)*



[More about all our Hot Peppers](#)

### N SOMBORIUS F1

The name of this pepper type is derived from the Serbian city of Sombor. It is harvested mainly in technical maturity, when the fruits have creamy color. The fruits are suitable for direct consumption, canning or grilling. The wide shape of the fruit makes it ideal for stuffing. At full botanical maturity, the fruits are light red. In Balkan fields you can find many variations of Somborka, which differ from each other in fruit shape, earliness or hotness. We've selected two nice lines from several local versions which are the parents of our new very early hybrid. It differs from local varieties of this type mainly by more uniform habit of plants and thick fleshy fruits. Uniform fruit setting during all growing period is also important advantage of this hybrid. SOMBORIUS is suitable not only for growing in greenhouses or hoop houses. It is ready for stress weather and fully recommended for open field growing in Central European conditions as well.

### DRAKY F1

A hot kapia type pepper. The conical firm fruits are uniform in size, shape and ripen from green to dark red. May be harvested when green or red. For fresh market or processing.

### OHNIVEC

The Czech name of this variety name means „Fire boy“ and it exactly describes this variety. OHNIVEC is a medium hot „ram's horn“ type. The fruits ripen from light green to red and may be harvested in both colors. Recommended for fresh market and processing.

### N SOMBORIUS MAX F1

An early, medium high hot pepper follows our hybrid Somborius. It is also Balkan pepper of the popular Somborka type. Hot pepper SOMBORIUS MAX F1 has a larger and a longer fruit compared to its brother. Therefore it is perfectly suited not only for processing but also for the fresh market. Its hotness is reduced to about 400 SHU which makes this pepper more friendly for those who do not like peppers with higher SHU so much.

### P KOSOVA GOLD (SM YES)

This pepper was specially bred for the Balkan market, where this type of yellow chili is very popular. KOSOVA GOLD differs from our well-known Kristian yellow chili pepper in fruit size, ripening, and heat. The fruits of KOSOVA GOLD are significantly larger. They ripen gradually from light green through creamy-white to yellow. Their heat is around a pleasant 3,500 Scoville Heat Units (SHU).

### DAMIAN, KILIAN, KRISTIAN – three chili brothers

Our three highly recommended, slim fruited, hot chili peppers. Initial color of all three varieties is green, and when mature, DAMIAN turns red, KILIAN orange and KRISTIAN yellow. Fruits are about 8 cm long. They all perform well in indoor pots, greenhouses or hoop houses and are perfect varieties for trellising. Matures early in open field, too. All pepper brothers are easy to grow.

SOMBORIUS MAX F1

KOSOVA GOLD (SM YES)

DAMIAN, KILIAN, KRISTIAN  
– three chili brothers



# Hot Pepper

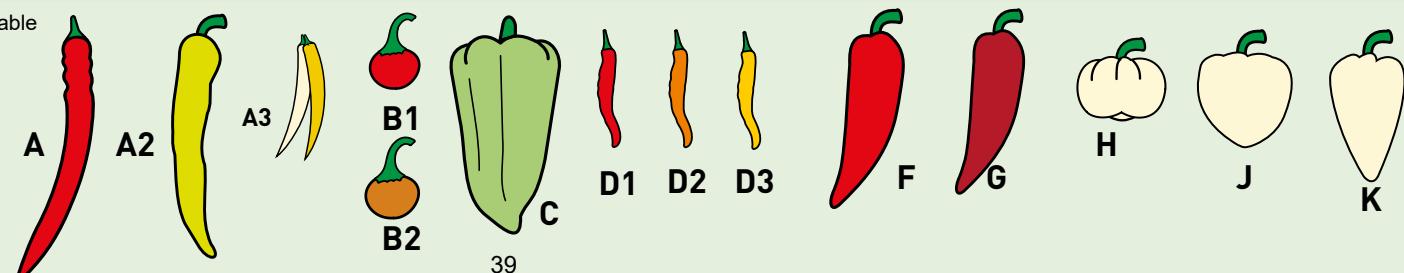
Variety	Maturity	Plant growth habit	Fruit							Recommended stage for harvesting		Growing			General remarks
			color in green /white/ maturity	color of fully ripe fruits	Scoville heat units (SHU) tested at full maturity	shape	flesh thickness (mm)	average size (cm)	average weight (g)	green / white/ maturity	fully ripe fruits	open field	indoor summer season	indoor winter season	
<b>OSTRY F1</b>	very early	medium	light green	red	400 - 600	C	5	15 x 7	120	👍👍	👍	👍👍	👍👍	👍	fruit-shaped like sweet SLAVUS flesh is hot close to seed cavity
<b>SOMBORIUS F1</b>	mid early	short	creamy white	light red	400 - 600	J	5	8 x 7	100	👍👍	👍	👍👍	👍👍	👎	slightly hot "SOMBORKA" type, the best ingredient for Ajvar
<b>SOMBORIUS MAX F1</b>	mid early	medium	creamy white	light red	300 - 500	K	5	13 x 7	120	👍👍	👍	👍👍	👍👍	👎	"SOMBORKA" type pepper with a large fruit, for Ajvar and fresh
<b>DRAKY F1</b>	early	medium	green	red	600 - 800	F	4	15 x 5	100	👍👍	👍	👍👍	👍👍	👍	hot "kapia" suitable also for slicing and canning
<b>PALIVEC</b>	early	tall	green	dark red	800 - 1 000	A	3	17 x 2	70	👍	👍👍	👍👍	👍👍	👍	slightly hot "ram horn" good for whole fruit canning
<b>BARKOL</b>	early	tall	green	dark red	600 - 900	A	3	18 x 3	70	👍	👍👍	👍👍	👍👍	👍	slightly hot "ram horn" good for whole fruit canning
<b>OHNIVEC</b>	early	medium	light green	red	1 000 - 1 200	A	3	18 x 3	70	👍	👍👍	👍👍	👍👍	👍	hot long "ram's horn" good for whole fruit canning
<b>PALINDA F1</b>	mid early	short	creamy white	light red	1 100 - 1 300	H	5	diameter 5	80	👍👍	👎	👍👍	👍👍	👎	slightly hot "apple" type, very juicy, good for stuffing
<b>KOSOVA GOLD (SM YES)</b>	early	medium	creamy white	yellow	3 200 - 3 700	A3	3	12 x 1,5	30	👍👍	👍👍	👍👍	👍👍	👍	a pleasantly spicy, juicy Balkan chili pepper with high yield
<b>ORANGE KORAL</b>	early	short	dark green	yellow - orange	7 000 - 10 000	B2	2	diameter 2 - 2,5	15	👍	👍👍	👍👍	👍👍	👎	hot yellow-orange "cherry" pepper, good for whole fruit canning
<b>KORAL</b>	early	short	dark green	dark red	8 000 - 12 000	B1	2	diameter 2	15	👍	👍👍	👍👍	👍👍	👎	hot "cherry" pepper, good for whole fruit canning
<b>JALAHOT F1</b>	late	medium	dark green	dark red	8 000 - 12 000	G	4	7 x 3	50	👍	👍👍	👍	👍👍	👍👍	red JALAPENO, good for stuffing
<b>SRILANUS F1</b>	early	medium	light green	light red	10 000 - 15 000	A2	3	15 x 3	60	👍	👍👍	👎	👍👍	👍👍	high yield of uniform fruits in shape and size during all growing period
<b>DAMIAN</b>	mid early	medium	green	red	10 000 - 15 000	D1	2	8 x 1	10	👍	👍👍	👍👍	👍👍	👍👍	also for pots, red chili type
<b>KILIAN</b>	mid early	medium	green	orange	12 000 - 17 000	D2	2	8 x 1	10	👍	👍👍	👍👍	👍👍	👍👍	also for pots, orange chili type
<b>KRISTIAN</b>	mid early	medium	green	yellow	13 000 - 18 000	D3	2	8 x 1	10	👍	👍👍	👍👍	👍👍	👍👍	also for pots, yellow chili type

👍👍 very suitable

👍 suitable

👎 not suitable

**☒** the variety is not registered in the EU





HABANERO ORANGE



HABANERO LEMON



VULCAIN

## Very hot pepper

(*Capsicum chinense* and *Capsicum Frutescens*)



More about all our Very Hot Peppers

There is ever-increasing demand for extremely hot peppers and in response, every year we add new varieties to our assortment. All of these extremely hot varieties are *Capsicum chinense* or *frutescens* types. Consumption and growing of these "adrenaline" peppers particularly appeal to the younger generation who like to experiment growing new types of these peppers! We believe that our chili offer will appeal to both growers/farmers and seedling dealers.

### HABANERO

It is probably the most popular type of extremely hot peppers worldwide. The name comes from the Spanish name of Havana. The thin-walled fruits are 4–6 cm long and resemble „lanterns“. Their heat levels vary among the various varieties, but all are very hot and range from 200,000 to 700,000 SHU. They mature late, so in colder regions (Central Europe and similar) are only suitable for the greenhouse or hoophouse. In warmer regions they can also be successfully grown in open field, with the first harvest in the end of summer.

Our offer:

**HABANERO RED** red fruits SHU 300,000  
**HABANERO WHITE** white fruits SHU 400,000  
**HABANERO CHOCOLATE** brown-red fruits SHU 450,000  
**HABANERO LEMON** yellow fruits SHU 500,000  
**HABANERO ORANGE** orange fruits SHU 600,000

### VULCAIN

A variety of *Capsicum frutescens* provides small fruits throughout all growing season. The hot fruits (700,000–900,000 SHU) have shape of very small golden-yellow barrels. In conditions of Central Europe we recommend this pepper for indoor cultivation only. VULCAIN resembles a tree-in-grow; a stronger trunk and a nice branched crown. In addition to the culinary purpose when grown in a container it is also very decorative plant.

### PUMPKIN

It is a special hot pepper belonging to *Capsicum baccatum*, originating in Peru. The dark red fruits are disc-shaped and very decorative. The taste is pleasantly spicy with nice fruity flavors. The fruits weigh about 15 grams and have a diameter of 2–3 cm. They have a heat level of 100,000–140,000 SHU and a flesh thickness of 2 mm. The plant has a taller growth habit. In Central Europe, it is intended only for indoor cultivation. PUMPKIN can be also successfully grown in larger containers.

### N DRACO ORANGE

#### DRACO RED / DRACO YELLOW

Our own selection of Bhut Jolokia (900,000 – 1,100,000 SHU). It is extremely hot pepper between *Capsicum chinense* and *Capsicum frutescens*. Our own selections of Bhut Jolokia are slightly earlier and smaller in plant size than other varieties of this type. Nevertheless in our climatic conditions (Central Europe) we recommend to grow them in greenhouses where they ripen really reliably. The plants grow tall in there and require a rope support. When grown in open field the plants are significantly shorter and fruit need more time to full ripening.



DRACO YELLOW

PUMPKIN

DRACO ORANGE

DRACO RED

**RED FLAME****VICTORIA VIOLET**

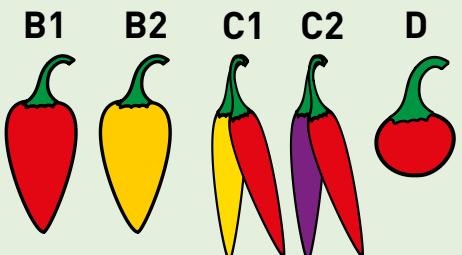
## Pepper - ornamental chili

[More about all our Ornamental Peppers](#)

Ornamental chilies are peppers with a compact growth habit and small hot fruits. They can be successfully grown in open field, but they are best in pots. Interest in ornamental peppers has recently grown considerably. SEMO breeds for this market segment and gradually introduces new varieties.

### RED FLAME

Ornamental pepper with compact plants, nice for pots. Fruits are small pyramids, they ripe from green to red.



### YELLOW FLAME

Ornamental pepper with compact plants, nice for pots. Fruits are small pyramids, they ripe from green to yellow.

### VICTORIA

Ornamental pepper with compact plants nice for pods. Small slim fruits are creamy and red.

**VICTORIA****EMMA**

### N VICTORIA VIOLET

A compact ornamental pepper known for its vibrant, eye-catching pods. The small, slender fruits start out green, then turn purple, and finally ripen to a deep red. All three colors can be seen on the plant at the same time.

### EMMA

Compact plants, nice for pots. Small cherry fruits are creamy, violet and red.

Variety	Plant growth habit	Fruit						Recommended growing environment	
		unripe color	ripe color	heat level	Scoville heat units (SHU) tested at full maturity	shape	average size (cm)	field	pot
<b>RED FLAME</b>	compact	green	red	very hot	60 000 - 80 000	B1	3 x 3		
<b>YELLOW FLAME</b>	compact	green	yellow	very hot	70 000 - 90 000	B2	3 x 3		
<b>VICTORIA</b>	compact	creamy-yellow	light red	very hot	60 000 - 80 000	C1	5 x 2		
<b>VICTORIA VIOLET</b>	compact	green-violet	red	very hot	60 000 - 80 000	C2	6 x 2		
<b>EMMA</b>	compact	yellow-green	light red	very hot	70 000 - 90 000	D	diameter 1 cm		

very suitable

suitable

not suitable



**YELLOWBABY F1**  
(SM 395/18B)



**YELLOWBOYS F1**



**GURMAN (SM TS 396/19)**

## **N GURMAN (SM TS 396/19)**

GURMAN is our OP pumpkin for the production of hull snack seeds. This pumpkin offers very big white seeds which are perfect for healthy and crunchy snacking. They taste great dried and roasted. It is an early variety with many uniform oval fruits that can also be used for Halloween. It actually offers two benefits - large healthy seeds inside and nice fruits suitable for decoration.

## **YELLOWBOYS F1**

A SEMO hybrid with uniform, round, slightly ribbed, orange fruits of an average weight of 6-8 kg. The skin is tough, making it suitable for shipping but is still soft enough for Halloween carving. Fruits are good for mid-term storage and may be used also for cooking, especially purées and soups.

## **YELLOWGIRLS F1**

Our next pumpkin hybrid is similar to its brother, YELLOWBOYS, but with smaller fruits (4-6 kg). It is a perfect variety for children's Halloween Jack O'Lantern.

## **P YELLOWBABY F1 (SM 395/18B)**

A medium-sized pumpkin weighing only about 1.0-1.5 kg with a decorative dark green stem. The well-ribbed fruits are suitable for carving and for painting—so-called Painted Pumpkins. The advantage of YELLOWBABY is its strong tolerance to Powdery mildew.

It is ideal for small children (kindergartens, etc.) who want a nice Halloween pumpkin but are too young to carve one with a knife.

# **Pumpkins**

*(Cucurbita pepo L.)*

More about all our Pumpkins



## **P KING SIZE F1 (SM TS 398/18)**

Our first hybrid pumpkin for the production of hull seeds. It is slightly late than GURMAN and its flattened fruits are bigger. An important advantage of KING SIZE is good health including resistance to viruses. Its seeds are really extremely large and are excellent for drying and roasting. The name KING SIZE does not mean only big seeds but also nice big fruits suitable for Halloween.

## **APETIT**

*(Cucurbita pepo L. var. oleifera)*

Hulless seeds oil pumpkin with medium compact growth - that allows a high density of plants per hectare, resulting in higher yields. Seeds have a high nutritional value and are suitable for cooking, snacking and oil production

## **ESO**

*(Cucurbita pepo L. var. oleifera)*

An oil pumpkin with hulless seeds. Plants have a semi-bush habit and yield 3-4 fruits per plant. Suitable for mechanized harvests due to its uniform ripening. It gives high yields of big, dark green seeds that are suitable for cooking, snacking and oil production.

## **N TRUMF F1 (SM 381/18 BS)**

*(Cucurbita pepo L. var. oleifera)*

Our first hulless-naked seed hybrid. TRUMF performs well even in stressful years. Semi-bush habit, 3-5 uniform fruits per plant - these are the ingredients for its high yield. The large dark seeds are nice not only for oil production but also as a snack or for cooking. TRUMF is suitable for mechanized harvests because of its very uniform fruits ripening.



**KING SIZE F1**  
(SM TS 398/18)



**ESO**



**TRUMF F1 (SM 381/18 BS)**



JAPANA F1



JAROLA F1



REDHEART (SM 12/24)

## Radish – Daikon (Mooli)

*Raphanus sativus L. var. major A. Voss*



[More about all our Radishes](#)

### JAPANA F1

A daikon for summer sowing. Roots are smooth skinned, white with a rounded end, measuring up 35 cm long. Flesh is fine and dense. The plants are fast growing and mature quickly. Because of its length JAPANA requires light, deep and well cultivated soils. Best sown in July through early August (in Central Europe). Not for spring sowing as it will bolt without forming a root. Roots keep well throughout the winter. Approximately 80 days from sowing to harvest (Central Europe).

### JAROLA F1

A white radish with light shoulders. Pointed roots are 25 to 30 cm long and have a good internal structure. JAROLA is tolerant to bolting allowing early spring as well as summer sowings. Approximately 90 days from spring sowing and 80 days from summer sowing to harvest (Central Europe).

### MELINORA

#### Daikon radish with bio dril effect

Long roots break like nature's rototiller through hard, compacted soil. It mechanically opens up channels for water and roots to penetrate. Daikon radish MELINORA is natural reclamation for better using of precipitation and water retention in the soil. It also has a phytosanitary effect - it suppresses the development of some types of soil nematodes and fungal pathogens. The roots contain a high proportion of sugars and promote the development of useful soil microorganisms. MELINORA captures significant amounts of nitrogen, phosphorus and other nutrients from the deeper soil layers and returns them to the root zone to succeeding crops.

MELINORA



PANTER



RUBIN (SM 11/24)



### P REDHEART (SM 12/24)

A summer radish with highly attractive purplish-red flesh. The roots are oval to round in shape, white in color with a green neck. They measure approximately 10 cm in diameter and about 15 cm in length. The juicy and crispy pink flesh offers a fairly sweet taste. The roots are suitable for both transport and storage. Approximately 65 days from sowing to harvest

### LUTEA

An early to medium early summer radish with a yellow roots and white flesh. The roots are elongated, 15–20 cm long. It's intended not only for direct consumption but even for storage (up to 1 month). We sow from mid-summer. Earlier sowings are sensitive to bolting.

### PANTER

A black radish with very uniform round roots with an average diameter of 6–9 cm. Perfect for fresh market and long-term storage. Approximately 70 days from sowing to harvest.

### P RUBIN (SM 11/24)

An almost round radish (diameter about 10 cm) that immediately stands out with its attractive red skin and nearly spherical shape. The flesh is snow-white, crisp, juicy, and slightly sweet. RUBIN stores exceptionally well and, thanks to its strong resistance to bolting, is suitable for late spring sowing. Approximately 80 days from sowing to harvest.



VERONA F1 (HR 22/25)



KVINTARA F1



KATRENA F1

## Radish – standard type

*Raphanus sativus L. var. sativus*



More about all our Radishes

### **P VERONA F1 (HR 22/25)**

A hybrid radish distinguished by its consistently vibrant red exterior and an attractive creamy-white interior. The short and firm top is the ingredient for 100% bunching results. This radish boasts an excellent flavor profile, remaining crisp and free of any pith or caves even at larger sizes. It is also very tolerant to cracking. VERONA is well adapted to a wide array of climates and is suitable for year-round growing. In Mediterranean and other regions with milder weather, sowing can be sown during autumn and winter for a very early spring harvest. VERONA is also a nice radish even for container growing.

### **KVINTARA F1**

An early hybrid with attractive uniform roots that are bigger than PRIMARA or VINARA. Good tolerance to cracking and bolting. The tops are tall and strong and its roots are bright red with a good flavor, making this variety perfect for bunching. KVINTARA was bred specifically for covered spring field production though it has also proven to be our best variety for late summer sowings. Confirmed radish for organic growing.

### **DUO**

An early variety with red-white round bulbs - colored crimson red on the upper two thirds and white on the lower third. Flesh is generally pinkish, succulent and sweet. Radish DUO is suitable for both indoor and open field growing.

### **KATRENA F1**

This very early hybrid is suitable for spring, autumn and even summer crops. The large uniform roots have dark red skin and crisp, mild flesh. The tops are short and strong and very good for growing under row covers in open field. It is tolerant to cracking and hollow heart. KATRENA has just the right characteristics for a perfect bunching radish.

### **PURPURA F1**

An early, bright violet, uniform hybrid with smooth and uniform roots. Crispy white flesh with high tolerance to hollow and cracking. Excellent for bunching. PURPURA is widely adapted for all year open-field growing – spring, summer, or autumn crops.

### **BELANA F1**

New hybrid radish with big round bulbs of a snow-white color. It differs from non-hybrid varieties in several important aspects. BELANA offers very uniform bulbs with crispy flesh. It is very tolerant to both cracking and hollow heart. Its leaves are dark, medium low.

### **BLANKA**

An early radish with a smooth white root. A good choice for spring or autumn production. An attractive variety that is ideal for making mixed-colored bunches.

### **STALAGNIT F1**

An early white icicle type radish. STALAGNIT differs from similar non-hybrid radish in many ways. Above all, it is significantly earlier, up to 10 days than well-known variety RAMPOUCH. Its spindle-shaped cylindrical bulb is larger with more delicate and not so strong taste. The leaves are more high and robust. STALAGNIT is resistant to caving, cracking and bolting. STALAGNIT is very suitable even for problematic summer sowing.



PURPURA F1



BLANKA



STALAGNIT F1

## Radish

Variety	Maturity	Growing			Bulb			Foliage height	General remarks
		indoors	field (spring sowing)	field (summer sowing)	shape	color	size (cm)		
<b>P</b>	<b>VINARA F1</b>	very early	👍👍	👍👍	👎	round	5	2 - 3	very low short but strong tops, the best for protected culture
	<b>VERONA F1 (HR 22/25)</b>	very early	👍👍	👍👍	👍	round	6	2,5 - 3,5	very low an excellent flavor profile for long time, suitable for year-round growing
	<b>KATRENA F1</b>	very early	👍👍	👍👍	👍👍	round	6	2.5 - 3.5	low compact strong upright tops, uniform bigger bulbs
	<b>PRIMARA F1</b>	very early	👍👍	👍👍	👍	round	5	2 - 3	low very uniform roots, for early field production
	<b>KVINTARA F1</b>	early	👎	👍👍	👍👍	round	5	2.5 - 3.5	medium uniform big roots, excellent field holding ability
	<b>TEKO</b>	very early	👍👍	👍👍	👍	round	5	2 - 3	low excellent uniformity for an OP, also suitable for tunnels
	<b>PRIMA</b>	very early	👍	👍👍	👎	round	5	2 - 2.5	medium best for early crops in open field, very good internal quality
	<b>KVARTA</b>	early	👍	👍👍	👍	round	7	2.5 - 3.5	medium tetraploid large bulbs
	<b>GRANAT</b>	early	👍	👍👍	👎	round	7	2 - 3	medium dark red bulbs, quick growing
	<b>KVINTA</b>	early	👎	👍👍	👎	round	3	2 - 3	medium attractive pale red bulbs, smooth skin
	<b>DUO</b>	early	👍	👍👍	👍	round	red- white	2.5 - 3.5	medium red-white, round bulbs
	<b>SLAVIA</b>	very early	👍	👍👍	👍👍	short cylindrical	red- white	length 3.5 - 4	medium "French breakfast" type the best even for summer sowing
	<b>LILANA</b>	early	👎	👍👍	👎	round	violet	2 - 3	high very attractive purple color
	<b>PURPURA F1</b>	early	👍	👍👍	👍👍	round	violet	2.5 - 3.5	medium attractive violet radish, high tolerance to cracking and hollow heart
	<b>BLANKA</b>	early	👎	👍👍	👎	round	white	2 - 3	high white round bulbs
	<b>BELANA F1</b>	early	👍	👍👍	👎	round	white	2.5 - 3.5	high uniform white round bulbs tolerant to both cracking and hollow heart
	<b>RAMPOUCH</b>	mid-early	👎	👍👍	👍	long cylinder with pointed end	white	length 6 - 10	medium white pointed bulbs
	<b>STALAGNIT F1</b>	early	👎	👍👍	👍	long cylinder with pointed end	white	length 8 - 12	medium the earliest radish of this type, resistant to caving and cracking

👍👍 very suitable

👍 suitable

👎 not suitable

color: 1 = pale red; 9 = dark red



DELIKATES



SNOWDISC F1



SNOWDISC F1

## Squash – Scallop type – Patty pans

(*Cucurbita pepo L.*)



More about all our Scallops

### DELIKATES

DELIKATES has a high yield potential of white discs with a creamy white flesh. Intermediate resistance to Powdery Mildew. First harvest is 70 days after sowing (in Central Europe).

### GREENDISC F1

A high yielding green scallop hybrid suitable for harvests of baby fruits for cooking or canning. Young fruits are light green with darker stripes that become dark green at full size. Three of our varieties SNOWDISC, SUNSEANCE and GREENDISC, are the perfect combination of baby fruits creating an appealing pickle jar.

### SNOWDISC F1

Our very promising hybrid. Fruits are very uniform with a shiny white color and excellent taste. Very healthy plant. Good for harvest of baby fruits as well as typical patty pan size. First harvest is 65 days after sowing (in Central Europe).

### PATINOVA

A high-yielding variety with a bush habit. White fruits are of a flat disc shape and with a thick cream colored flesh inside. The first fruits can be harvested 75 days after sowing (in Central Europe).

### SUNSEANCE F1

A scallop hybrid producing bright yellow disc-shaped fruits without developing any green spots in their centers and with a small blossom-end scar. The fruits have long stems, allowing for easy harvest.

They are also suitable for harvest at full maturity when the fruits are shiny dark yellow. Can be used for both fresh market and for processing. The plants are slightly more compact than other competitive varieties. SUNSEANCE is primarily for open-field cultivation but also performs well when grown in hoop houses for extra early crops. A very early variety, with a first harvest 60 days after sowing (in Central Europe).



GREENDISC F1



SUNSEANCE F1



SUNSEANCE F1





GAMBIT F1



EMPEROL F1



SENZACE F1

# Squash – Summer (zucchini)

(*Cucurbita pepo L.*)



More about all our Squash - summer

## GAMBIT F1

GAMBIT is a high yielder of dark green, long, uniform and attractive fruits with a small flower scar. The bush plants are less vigorous and smaller than our other varieties. GAMBIT is tolerant to CYMV. Very early squash, approximately 50 days from sowing to first harvest (in Central Europe).

## EMPEROL F1

A variety with a medium vigorous bush plant that produces shorter than typical cylindrical fruits that are best harvested from 15–20 cm. Skin is creamy green and slightly striped. Very high yielding, especially for harvest of young fruits. EMPEROL is early, averaging about 60 days to first harvest (Central Europe).

## SENZACE F1

Squash with a medium vigorous bush plant that produces medium green, slightly striped, shorter cylindrical fruits with an optimum size of 15–20 cm. Excellent yield potential, especially for harvest of young fruits. SENZACE matures early with a first harvest of about 60 days (in Central Europe).



TREND F1

## N YELLOWSTAR F1

An early and high yielding zucchini with strong robust plants tolerant to environmental and weather stresses. YELLOWSTAR produces uniform golden yellow fruits with length of 20–30 cm, evenly throughout the vegetation. Regular fruit setting during all growing period. Early variety, vegetation period from sowing to first harvest about 60 days (in Central Europe).

## N SUNRISE F1 (SM 135/24)

A very early, beautifully striped zucchini with a bright golden yellow base and pale yellow stripes. Its smooth texture and delicious flavor add value to SUNRISE. The compact bush habit of this high yielding and spineless makes harvesting of this really easy. It matures in 55 days (from sowing to first harvest in conditions of Central Europe). The plant stands out for its tolerance to both viral and fungal diseases. Ideally, harvest the fruits when they reach a size of 10–15 cm, as they are most attractive for the fresh market. SUNRISE is also suitable for cooking or baking, and when overripe, it can be used for decorative purposes

## GOLD BALL F1

A round squash with bright yellow fruits with an optimal harvest size of 5–8 cm in diameter. Medium vigorous bush type. GOLD BALL has superior tolerance to hot temperatures. Mid-early, approximately 65 days to first harvest (in Central Europe).

## TREND F1

An early squash with round, light green fruits suitable for fresh market sales. TREND has a pleasant, slightly nutty flavor and a small seed cavity. TREND is a reliable parthenocarpic hybrid that can produce fruits even in cold and rainy years, when pollinators are not active, as well as in extremely hot weather. Approximately 60 days from sowing to first harvest (in Central Europe). Fully matured fruits can also be used, especially for playful painting.



YELLOWSTAR F1



SUNRISE F1 (SM 135/24)



GOLD BALL F1



**SHEEPEK F1 (SM 324/24)**



**RUGBY F1**



**HONEYCAKE F1 (SM 310/21)**



## **P SHEEPEK F1 (SM 324/24)**

Winter squash of the Hubbard type with very attractive small fruits weighing about 500 grams. The size and shape of the fruits, including the pronounced ridges, resemble Acorn squash. But the color of the skin and flesh of SHEEPEK is deep orange. The plant has a semi-vigorous growth and will surprise you with a very high fruit setting. Nice fruits have a very small seed part and the volume of usable flesh is surprisingly large for a relatively small fruit. PS: It is definitely not a squash only for singles as it might seem at first glance. Thanks to its very fine texture and sweet taste, it is excellent for preparing both sweet and savory meats and, of course, popular soups. SHEEPEK also stands out for its very long shelf life (more than 6 months), which only strengthens the use of fully ripe fruits for decorative purposes.

## **P RUGBY F1**

*(Cucurbita maxima Duch.)*

A new mini orange Hubbard type hybrid with very attractive rugby ball-shaped fruits. The fruits with weight of 0.8–1.5 kg are uniform in size and can be stored until December. Their skin is slightly lighter than Uchiki-Kuri, with lighter stripes. RUGBY has a very small core with a large share of dark orange flesh.

## **P HONEYCAKE F1 (SM 310/21)**

Winter squash of the Kabocha type with a flattened round, light orange fruit with typical lighter stripes and spots. The fruits have only a small seed part and weigh around 1.5 kg. The flesh is dark orange and has a fine texture and a pleasant sweet taste. The plant has semi-vigorous growth and thus achieves a higher yield per area than classic vigorous varieties. The advantages of this squash include good storage life (up to 4 months) and tolerance to viruses and fungal diseases. HONEYCAKE, as its name suggests, was bred primarily for the preparation of sweet desserts, infant snacks or sweet canning.

# **Squash – Winter**

*(Cucurbita maxima Duch.)*

More about all our Winter Squashes



## **DELICIAN F1**

*(Cucurbita maxima Duch.)*

A hybrid between Uchiki-Kuri and Kabocha, with flattened round fruits. Skin is slightly lighter than Uchiki-Kuri but the flesh stays deep orange. Very uniform fruits are suitable for long term storage. Average fruit weigh is 1.5–2.0 kg.

## **HOKKAIDO ORANGE**

*(Cucurbita maxima Duch.)*

Our own selection of high yielding truth Uchiki Kuri type. Vigorous plant and nice deep orange pumpkins with weight 1.0–1.5 kg. They ripen early and stores well.

## **LAURA**

*(Cucurbita moschata Duch. ex Poir.)*

An early small-sized Butternut. Weight of fruits is 1.0–1.5 kg with beige skin and orange flesh and good fruit setting (3–5 fruits per plant) ability. LAURA combines earliness and good eating quality with Powdery Mildew resistance.

## **STELLA F1**

*(Cucurbita moschata Duch. ex Poir.)*

Our early medium-sized Butternut. The fruits weight 1.2–1.7 kg. Fruits are uniform with small seed cavity, rich in color of flesh and skin. STELLA offers high yields and excellent nutty flavor. Good storage life, resistance to ZYMV (Zucchini Yellow Mosaic Virus) and PRSV (Papaya Ringspot Virus) are also important benefits of this new hybrid.

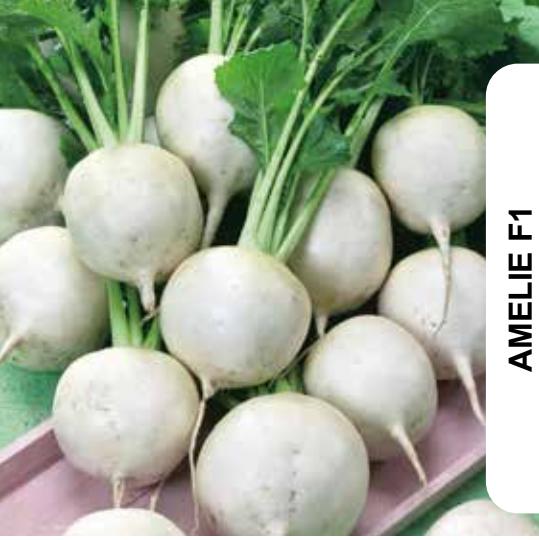
## **BABY SPAGHETTI F1**

*(Cucurbita pepo L.)*

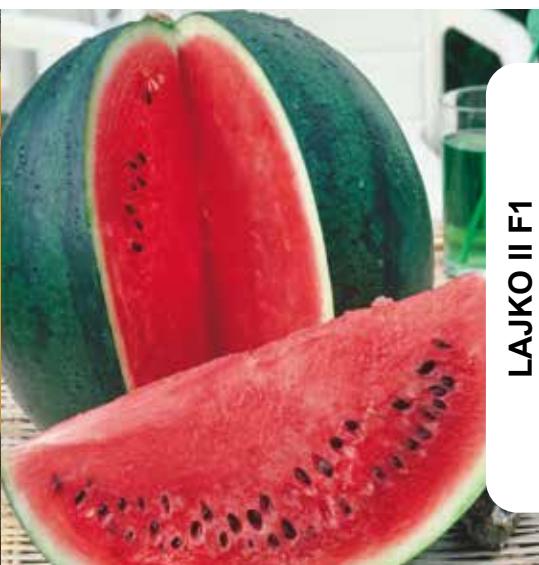
An early mini spaghetti squash with a semi-vigorous plant habit. It matures about two weeks earlier than traditional spaghetti squashes. The uniform egg-shaped fruits weigh 400–600 g and are suitable for long-term storage. The flesh is pale yellow-orange with an excellent nutty flavor. At full maturity the flesh has a fine spaghetti texture.

**DELICIAN F1**

**BABY SPAGHETTI F1**



AMELIE F1



LAJKO II F1



CRIMSON SWEET

## Turnip

*Brassica rapa L. var. rapa L.*



More about all our Indeterminant Turnips

### AMELIE F1 (SM 5/17 Yu)

An early turnip (45–50 days after sowing) with short tops particularly suited for growing in greenhouses or hoophouses. The round, snow-white roots have a diameter of 5–7 cm and have a very nice, sweet flavor. The bolt tolerant hybrid is suitable for spring and summer sowing.

### PURPLE TOP WHITE GLOBE

A traditional mid-early turnip (50–55 days after sowing) for summer planting. The round roots are white with bright purple shoulders and have an average diameter of 10–12 cm. They have a pleasant taste and are suitable for fresh eating, cooking, and storage. Its young lobed greens can also be cooked.

## Watermelon

*Citrullus lanatus (Thunb.) Matsum ET Nakai*



More about all our Watermelons

### LAJKO II F1

A reliable, early hybrid that also performs well in poor conditions. Oblong fruits are medium-sized with weight about 4–5 kg. They have a firm dark green rind. Its red flesh is very sweet with a fine texture. Ready for harvest in 80–85 days after planting (Central European conditions).

### SUGAR BABY

A traditional, very early standard „icebox“ watermelon with round fruits (3–5 kg) and a dark green rind with darker green stripes. Good resistance to cracking. Sweet, fine-textured, medium-red flesh. Ready for harvest in 75–80 days after planting (Central European conditions).

### CRIMSON SWEET

A widely adapted early variety with oval fruits (7–10 kg) and a light green rind with dark green stripes. The flesh is bright red with a nice, flavorful sweet taste. Ready for harvest in 80–85 days after planting (Central European conditions).

### PRIMAGOLD F1

An easy growing early hybrid with very attractive yellow flesh. The round fruits are green with dark green stripes and average weight of 3–4 kg. The fine-textured flesh is refreshing and of excellent eating quality. Ready for harvest in 85–90 days after planting (Central European conditions).

### PRIMAORANGE F1

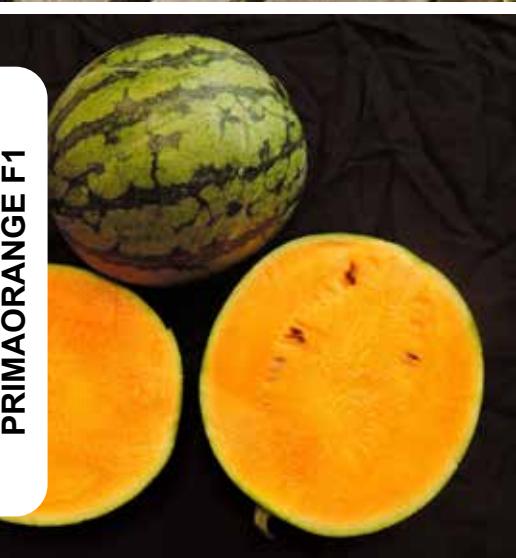
Very similar to its sister variety, PRIMAGOLD, this hybrid produces round green fruits with dark green stripes that weigh about 3 kg. The bright orange flesh is very sweet (11–12 % of sugar) and has only few seeds. Ready for harvest in 85–90 days after planting (Central European conditions).



PURPLE TOP  
WHITE GLOBE



PRIMAGOLD F1



PRIMAORANGE F1



ELAN F1



AFRODITA F1



GUSTA F1

## Sweet corn

*Zea mays L.*



More about all our Sweet Corns

In 2017 SEMO acquired the Slovakian breeding company Zelseed, which was focusing on corn breeding. With this acquisition we have increased our strength in sweet corn. We get a favourable feedback on our varieties from numerous farmers. To see our sweet and super sweet hybrids, take a look below.

### ELAN F1

ELAN is an extremely early variety that is one of the earliest maturing sweet corns worldwide. It also has a high yield potential. Suitable for growing both in open field and in hoop houses. Its dark-yellow kernels have a pleasant, sweet taste. A good choice for both - early fresh market and processing.

### AFRODITA F1

Responding to farmers' demand we are renewing the seeds production of this mid-early sweet corn. This robust corn with a high-placed ears perfectly copes with environmental stresses. Above all it is resistant to high temperatures even during the pollination. AFRODITA has confirmed its suitability for growing in the subtropics - but of course it is also grown in the temperate zone. It has large heavy well-closed ears. Good health is also one of its positives.

### GUSTA F1

A really high yielding sweet corn. The vigorous plants produce large cylindrical ears with good tip cover. The big and deep kernels make GUSTA an excellent choice for freezing or canning. Processing varieties require big and deep kernels so that there is still a good yield after the kernels are mechanically cut from the cobs. This late season hybrid has proven to be very reliable, even under less than favorable weather.

### LUMINOX F1

LUMINOX is a very good choice if you are looking for a very early super sweet corn. Its ear is tender but relatively long. LUMINOX is one of the sweetest hybrids in its category (sugar content up to 35%). The sugar content decreases very slowly after harvest, resulting in a long shelf life. This stress tolerant hybrid offers truly excellent eating quality. LUMINOX creates mostly single stalk plants, even under less than optimal conditions. Suitable for growing in open field and hoop houses. LUMINOX will provide its product for early market sales.

### LONGA F1

LONGA is optimal combination of earliness, high yield potential, strong plant habit and good plant health. Its ears are large and packed with full-flavored super sweet kernels. LONGA is a reliable variety that is suitable for both fresh and processing markets.

### RAMONDIA F1

Bicolor (75% of yellow and 25% of white kernels) super sweet corn. The long and slender ears offer crisp, juicy, very sweet kernels with superior eating quality. Though primarily grown for fresh market, RAMONDIA is also a good choice for baby corn production. Widely adapted.

LUMINOX F1

LONGA F1

RAMONDIA F1

## Sweet corn

Variety	Type	Maturity	Days from sowing to harvest*	Plant height (cm)	Ear height (cm)	Ear			color of kernel	Resistances					General remarks
						length (cm)	weight (g)	kernel rows		MDMV	SCLB	CRu	KB	ASP	
<b>ELAN F1</b>	sweet, su	very early	85	150 - 170	40 - 50	18 - 20	220 - 300	16	yellow	IR	IR	IR	HR		for early fresh market and early processing
<b>AFRODITA F1</b>	sweet, su	mid-early	105	190 - 220	65 - 75	19 - 20	260 - 320	20 - 22	yellow	IR	IR	IR	IR		very tolerant to high temperatures, also suitable for subtropics
<b>GUSTA F1</b>	sweet, su	mid-late	115	170 - 190	60 - 70	20 - 25	260 - 340	22	yellow	IR	IR	IR	HR		high yielding variety with robust plants and big ears
<b>LUMINOX F1</b>	super sweet, sh2	very early	90	150 - 170	40 - 45	19 - 22	240 - 300	14 - 16	yellow	HR	IR	IR	HR	IR	for early fresh market, tunnels and open field
<b>LONGA F1</b>	super sweet, sh2	early	100	170 - 190	65 - 75	20 - 25	250 - 320	16 - 18	yellow	HR	IR	IR	HR	IR	high yield potential, strong plant habit, good health
<b>RAMONDIA F1</b>	super sweet, sh2	very early	95	140 - 160	40 - 45	18 - 23	240 - 310	16 - 18	yellow (75%) white (25%)	HR	IR	IR	HR		superior eating quality for fresh market

### Resistance:

**IR** = Intermediate Resistance

**HR** = High Resistance

**MDMV** = Maize Dwarf Mosaic Virus, **SCLB** = Helminthosporium maydis, **CRu** = Puccinia sorghi

**KB** = Kabatiella zeae, **ASP** = Aspergillus Ear Rot (Aspergillus spp)

\* valid for Central Europe conditions



**SIMONA F1**

## SIMONA F1

A mid-late hybrid of butterfly type with really large nice flakes - kernels are big (about 50 seeds in 10 grams). Lower ear placement, good disease resistance package and high tolerance to cold weather and environmental stress generally. SIMONA guarantees good yield even in poor conditions.

## Popcorn

*Zea mays L.*

More about all our Popcorn



## JANTAR F1

A late stable high yielding butterfly type with small seeds (about 90 seeds in 10 grams) and fine popped flakes with excellent eating quality – high expansion and just full of flavor. Robust plants with sturdy stalks are tolerant to lodging and create good-sized second ear. Very high percentage of popped seeds during roasting is also important advantage.

**JANTAR F1**





PARTO F1



VELORIA ZEL F1



BRUNITO F1

## Tomato - indeterminant

*Solanum lycopersicum L.*



More about all our Indeterminant Tomatoes

### PARTO F1

A mid-early tomato with medium growth vigor. Excellent for hoop houses and unheated greenhouse production. PARTO has attractive, flattened round fruits weighing about 120 g. In addition it is suitable for shipping and storage (ESL). The fruits are very tasty with a „real“ tomato flavor. Best suited for a single fruit harvesting rather than whole trusses.

### VELORIA ZEL F1

Nice mid-early indeterminate tomato with shiny, slightly flattened fruits (about 120 g). Fruits are great for fresh eating thanks to the optimal balance of sweet and sour tomato taste. High yielding variety throughout the all-growing season with good disease resistance package including resistance (HR) to Nematodes. Just well-suited variety for both hoop houses and open field growing including organic. From our Slovak breeder's hands.

### BRUNITO F1

A mid-early kumato type with unique resistance to fungi diseases including Phytophthora /HR/, stress conditions and fruit cracking. Compared to other varieties in addition to indoor cultivation we can boldly recommend BRUNITO for growing in open field, even in northern regions of Central Europe and areas with a similar climate. Its flattened fruits ripen from green when young turns green-brown to reddish brown in full maturity. The fruits have a fine, smooth-textured skin and their flesh is of an interesting dark reddish colour. The taste is just excellent, rich in flavor. BRUNITO is nice for salads, slicing and any type of fresh eating. This high yielding variety is also nutritionally rich, especially with its high content of anthocyanins, which are important antioxidants. BRUNITO is just high-yielding stress tolerant variety suitable to all in- and out-door growing with not only attractive but also healthy fruits.

### JAHODO

An early strawberry type tomato with attractive heart-shaped fruits (weight about 18 g). Plants are vigorous and high yielding. Clusters are long and branched with an average of 16 fruits. The fruits have a firm texture and a nice flavor. They are tolerant to cracking and fruit drop. Suitable for very long-term storage (LSL type). Nice variety for both open field and hoop house.

### TIGRINO

An early indeterminate variety with small reddish-brown-green „tiger“ fruits (weight about 25 g). An interesting skin color with a deep red flesh and nice aromatic taste make this variety unique and interesting. About 14 fruits ripe on each of its long clusters. We recommend this variety for both single fruit and whole cluster harvest. TIGRINO is best suited for indoor growing. Intermediate resistance to Nematodes.

### DATLO

The fruits of this early variety are oval-shaped and golden yellow with average weight of 18 g. The best feature of DATLO is its flavor – it is one of the best tasting tomatoes of this type. Suitable for both single fruit and cluster harvesting. Intermediate resistance to Phytophthora.

### BLUMKO

A mid-early tomato with oval firm fruit (weight about 70 g). Mini San Marzano type. Fruits are tolerant to cracking and fruit drop and are suitable for long term storage. A nice variety that is best suited for single fruit harvest. Meaty red texture has little juice only. BLUMKO is therefore suitable not only for fresh consumption but also for cooking. Intermediate resistance to Phytophthora.

JAHODO

TIGRINO

BLUMKO



# Tomato indeterminant

Variety	Maturity	Plant	Fruit							Resistance							Growing			General remarks		
			shape		texture	resistance to cracking	average weight (g)	average sugar content of dry matter (°Brix)	storability	ToMV 0-2	Xc	Ve	Ss	F2	C3	LB	Mi	open field	indoor			
			summer season	winter season														summer season	winter season			
NIKI ZEL F1	early	low	round	A	medium	medium	110	6	medium	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	nice uniform fruits, very early variety best for indoor production	
TORINO F1	early	high	round	A	firm	high	100	6	long ESL	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	attractive fruits with an excellent flavor bred for field production	
TORNADO F1	mid-early	high	round	A	medium	medium	100	6	medium	HR				HR				HR	HR	HR	popular home garden variety excellent taste, stable yield	
TIPO F1	mid-early	high	round	A	firm	high	100	6	long ESL	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	for both outdoor and greenhouses, including hydroponics	
PARTO F1	mid-early	medium high	flattened round	B	firm	high	120	5,5	long ESL	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	for tunnel greenhouses production, very tasty with a real tomato flavor	
ZOKFA F1	mid-early	medium high	flattened	C	soft medium	medium	100	7	medium	HR			HR		HR		HR	HR	HR	HR	soft, creamy flesh with excellent sweet flavor also suitable for drying	
VELORIA ZEL F1	mid-early	medium high	flattened	C	firm	medium	120	6	medium	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	healthy and high yielding variety throughout the all growing season	
JERGUS F1	mid-early	medium high	flattened	C	medium	medium	400	5,5	medium	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	beefsteak heirloom tomato, excellent taste, extremely big fruits	
BRUNITO F1	mid-early	medium high	flattened	B1	firm	high	120	5,0	medium	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	unique Kumato resistant to fungi diseases, stress and fruit cracking	
BEJBINO F1	early	high	round	A	firm	very high	35	7	long ESL	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	high yielding cocktail tomato about 12 fruits per cluster	
DATLO	early	high	grape (rich yellow)	D2	medium	medium	18	10	medium	HR	HR	HR	HR	HR	IR	IR	IR	IR	IR	IR	very sweet, attractive skin color about 12 fruits per cluster	
VALDO	very early	high	grape (red)	D1	medium	medium	20	9	medium	HR	HR	HR	HR	HR	IR	IR	IR	IR	IR	IR	tolerant to Phytophthora, about 12 fruits per cluster	
JAHODO	early	high	strawberry	J	very firm	very high	18	8	very long LSL												"strawberry" type tomato very tolerant to cracking, about 16 fruits per cluster	
BIBI	very early	high	round	A1	medium	medium	15	10	medium	HR	HR	HR	HR	HR	IR	IR	IR	IR	IR	IR	slightly pointed cherry fruits about 20 fruits per cluster	
MINI	early	high	round	A1	medium	very high	20	9	long ESL	HR				HR		IR	IR	IR	IR	IR	tolerant to cracking, about 12 fruits per cluster, best for single fruit harvest	
TIGRINO	early	medium high	round "tiger"	A2	medium	medium	25	8	medium	HR			HR		HR		HR	HR	HR	HR	HR	green and brown stripes, about 14 fruits per cluster, HR to Nematodes
BLUMKO	mid-early	medium high	oval "plum"	F	firm	high	70	6	long ESL	HR			HR		IR	IR	IR	IR	IR	IR	IR	mini San Marzano tomato, about 8 fruits per cluster, tolerant to cracking

A

A1

A2

B

B1

C

D1

D2

F

J

HR

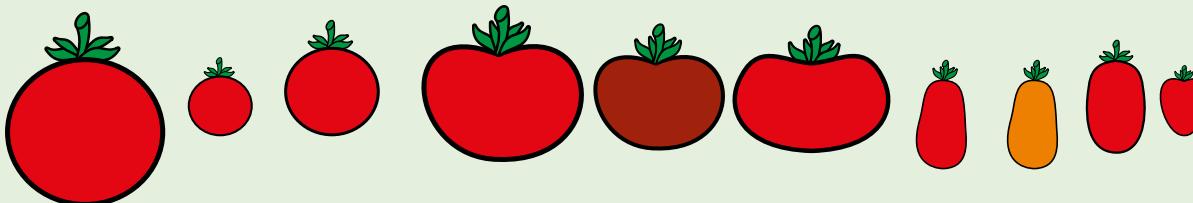
IR

very suitable

suitable

not suitable

HR - high resistance  
IR - intermediate resistance



## Resistance

ToMV 0-2 = Tomato mosaic virus races 0,1,2

Xc = bacterial spot caused by *Xanthomonas* spp

Ve = Verticillium

Ss = *Stemphylium solani*

F2 = *Fusarium oxysporum* races 0 and 1

C3 = Leaf Mold (*Passalora fulva* syn. *Cladosporium fulvum*) ABC

LB = Late Blight (*Phytophthora infestans*)

Mi = Nematodes (*Meloidogyne Incognita*)



IMUNEK F1



KARLA



MINIPEELUS

# Tomato – dwarf and cascade

*Solanum lycopersicum L.*



We are launching an entire collection of “balcony-friendly” tomatoes mainly intended for growing in boxes or flower pots. Our tomatoes are compact and easy to maintain, requiring neither staking nor much space. This makes them ideal for balconies, terraces or small gardens, where they provide not only a delicious harvest but also an attractive appearance. There are four varieties with a very

compact growth habit, making them suitable even for cultivation in smaller containers. The range is complemented by a cascade-type tomato, which is destined for growing in hanging containers. All of these tomatoes bear fruit throughout the entire growing season and are characterized by high yield potential, good health, and high tolerance to environmental stresses.

## IMUNEK F1 N

Mid-early, compact, bush tomato with round fruits (70–80 grams). Their skin is typically matte red, almost suede in appearance. The plant height is 40 to 70 cm, depending on the size of the container. This new hybrid carries the legacy of the legendary IMUN tomato, which was among the most cultivated varieties in pre-war Czechoslovakia. It was primarily renowned for its exceptional taste. IMUNEK is a significantly improved version of this old variety.

## KARLA

A mid-early beefsteak variety (125 g) with very compact plant. KARLA is thus significantly different from other bush tomatoes. Flattened round fruits with nice taste recommended for fresh market first of all. These nice colored fruits with good consistency are really perfect for slicing. It is also suitable for planting in containers or larger flower pots.

PS: Thanks to its dwarf growth, KARLA is also suitable for growing in containers and pots. Young plants are short but strong and look very attractive. This is interesting bonus for vegetable seedling producers.

## MINIPEELUS F1 N

Early dwarf tomato with small red oval fruits (15–20 grams). Suitable even for smaller containers. The plant height is 20 to 30 cm, depending on the size of the container.

## MINIROTUS F1 N

Very early dwarf tomato with red round cherry fruits (15–20 grams). Suitable even for smaller containers. The plant height is 20 to 30 cm, depending on the size of the container.

MINIROTUS is inspired by the Red Rubin tomato, which is popular, for example, among permaculture enthusiasts. It surpasses this older variety in yield and excellent plant health.

## MINIGELBUS F1 N

Very early dwarf tomato with yellow round cherry fruits (15–20 grams). Suitable even for smaller containers. The plant height is 20 to 30 cm, depending on the size of the container.

## BEJBINEK F1 N

Early cascade tomato with red round cherry fruits (18–23 grams). Thanks to its cascading growth habit, it is very suitable for growing in larger hanging containers.

Keep in mind that the “cascade” of shoots can reach a length of 50 to 70 cm. Therefore, hang the growing containers sufficiently high.



MINIROTUS F1



MINIGELBUS F1



BEJBINEK F1



DARINKA F1



MINIGOLD



ORANZE

## Tomato - bush

*Solanum lycopersicum L.*



More about all our Bush Tomatoes

SEMO manages a sizeable, traditional bush tomato breeding program. We develop varieties for both fresh market and processing sectors.

### DARINKA F1

A very early variety for fresh market with crack-resistant round fruit (about 95 g). High quality of fruits and consecutive ripening makes DARINKA highly recommended for fresh market using.

### TEREZA F1

A mid-early variety with big flattened round fruits (about 140 g). Perfect variety for hand picking. Mainly for fresh market, but can also be suitable for processing. Firm fruit with long shelf life. Excellent fruit setting under hot climate.

### MINIGOLD

This early variety offer vines with attractive golden cherry fruits (about 25 g). Perfect tomato for fresh market and canning.

### RUBINEK

Bush tomato RUBINEK is an early variety of red cherry tomatoes (about 25 g). Good in taste, attractive in size and color. Excellent quality for fresh market and canning.

### ORANZE

A bush tomato known for its vibrant orange fruits rich in vitamins. Its sweet flavor and appealing color make it especially suitable for children's diets. This early tomato is adaptable and thrives in various soil conditions. The medium-sized, slightly flattened round fruits are firm, making them ideal for fresh consumption and culinary uses.

### SEMAKING F1

A mid-late hybrid for processing with high stable yield. Plant: medium open, fruit – oval-round, very firm, cca 90 g, Brix cca 5.3. For mechanized harvest and picking by hands as well thanks really big fruits. Very high consistence and viscosity make SEMAKING perfect juicing.

### SM-ASP F1

Our improved mid-late "SEMAPEEL" with more intense flesh color and excellent health. Plant: medium open, fruit – long-oval, very firm, cca 90 g, Brix cca 5.2. For mechanized harvest or hand picking. Stable growth even under high temperature conditions. This new hybrid with elongate fruits shows good health including high resistance (HR) to Verticilium and tolerance to Phytophtora. Excellent quality and high yield for ketchup production or peeling. SM-ASP F1 is not registered in the EU.

### SEMALATE F1

A late, high yielding hybrid. Plant – medium open, fruit – oval-eggs, very firm, cca 90 g, Brix cca 5.3. For mechanized harvest. Long field life of fruits – tolerant to later harvest.

### SEMAPEEL F1

A mid-late hybrid with longer firm fruits. Plant: open, fruit – long-oval, very firm, cca 80 g, Brix cca 5.1. For mechanized harvest or hand picking. Very suitable variety for peeling.

### SEJK

The most wanted bush tomato from our OP varieties. It gives fruits with a high content of red pigment in its flesh. SEJK goes to maturity very fast and uniformly. Absolute star among very early processing tomatoes.



SEMAKING F1



SM-ASP F1



SEJK

# Tomato bush

Variety	Maturity	Plant Size	Fruit						Suitable for				Disease resistance	General remarks
			shape	firmness	field storage	average weight (g)	color	Brix	tomato harvester	ketchup paste	diced tomato	whole peeled tomato		
<b>HYBRIDS - for fresh market</b>														
DARINKA F1	very early	XL	A	firm	5	95	High	Medium	👎	👍	👍	👎	HR F2	crack-resistant high quality round fruits, consecutive ripening, for fresh market
TEREZA F1	mid-early	L	B1	firm	4	140	Medium	High	👎	👍	👍	👎	HR F2	perfect variety for hands picking, excellent fruit setting under hot climate
<b>OP varieties - for fresh market</b>														
MINIGOLD	early	S	A1	medium firm	5	25	yellow	Medium	👍	👎	👎	👎		attractive golden cherry fruits, for fresh market and canning of whole fruits
RUBINEK	early	S	A2	medium firm	5	25	Medium	High	👍	👎	👎	👎		good in taste, attractive in size and color, for fresh or canning of whole fruits
KARLA	mid-early	XS	C	firm	6	125	High	High	👎	👍	👍	👎		very compact plant perfect even for pots very tasty beefsteak fruits
ORANZE	mid-early	XL	B2	medium firm	5	115	orange	Very High	👎	👎	👍	👎		attractive orange fruits with high level of Beta Carotene
<b>HYBRIDS - for processing</b>														
SEMALUS F1	early	M	D	very firm	8	80	High	High	👍	👍	👍	👍	HR Ve	excellent stable yield, fast uniform ripening, long field life and high Brix
SEMAPRIM F1	mid-early	M	D	very firm	8	85	High	High	👍	👍	👍	👍	HR Ve	confirmed high yielding hybrid, high level of tolerance to stressful conditions
SEMAKING F1	mid-late	S	E	very firm	8	90	Very High	High	👍	👍	👍	👍		also for hand picking, big fruits high consistency and viscosity, good for juicing
SEMAPEEL F1	mid-late	XL	G	firm	7	90	High	Medium	👍	👍	👍	👍	HR Ve	longer firm fruits suitable for mechanized harvest or hand picking, perfect for peeling
SM-ASP F1	mid-late	L	G	very firm	8	90	High	Medium	👍	👍	👍	👍	HR Ve	improved SEMAPEEL, stable growth even under high temperature conditions
SEMALATE F1	late	L	H	very firm	9	100	Very High	High	👍	👍	👍	👍	HR Ve IR LB	high yielding hybrid, long field life of fruits – tolerant to later harvest

 the variety is not registered in the EU

 very suitable  suitable  not suitable

**Plant Size:**  
XS Very Small (Compact)  
S Small  
M Medium  
L Large  
XL Very Large (Open)

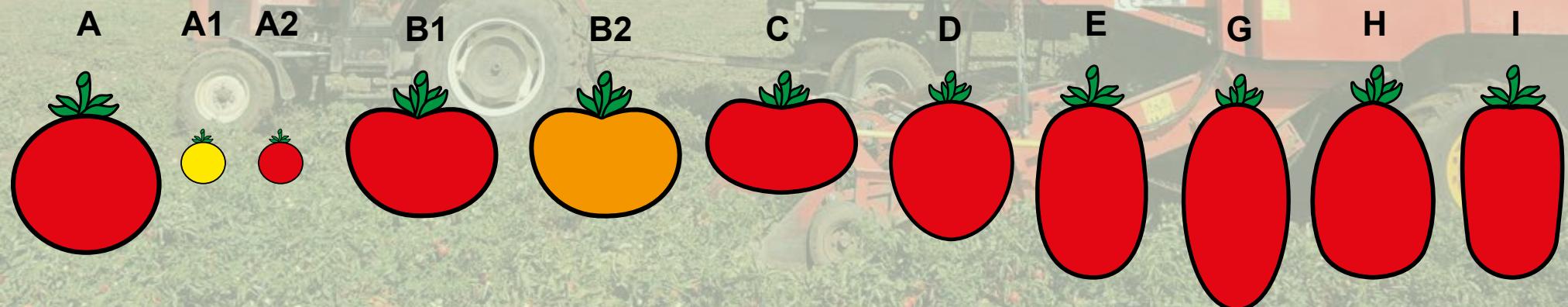
**Brix, sugar content in dry matter (°Brix)**  
< 4,8% Low  
4,8 % - 5,1% Medium  
5,1 % - 5,4 % High  
> 5,4% Very High

**Field Storage**  
(1 - 10)  
1= short 10=very long (extended)

**Resistance**  
Ve = Verticillium  
F2 = Fusarium oxysporum races 0 and 1  
LB = Late Blight (Phytophthora infestans)

Variety	Maturity	Plant Size	Fruit					Suitable for				Disease resistance	General remarks	
			shape	firmness	field storage	average weight (g)	color	Brix	tomato harvester	ketchup paste	diced tomato	whole peeled tomato		
<b>OP varieties - for processing</b>														
<b>SEJK</b>	very early	L	E	firm	7	85	Very High	High	👍👍	👍👍	👍	👍	HR Ve	maturity very fast and uniform, striking bright red color flesh
<b>SEMAROL</b>	very early	M	D	very firm	8	75	High	High	👍👍	👍👍	👎	👎	HR Ve	it is prominent with dynamic ripening and high yields of long field life fruits.
<b>ESKORT</b>	early	XL	H	firm	7	100	Normal	High	👍👍	👍👍	👍	👍	HR Ve	good for manual harvest, fruits grow above foliage, high yield even in arid areas
<b>PROTON</b>	early	L	D	very firm	9	75	High	High	👍👍	👍👍	👎	👎	HR Ve	long field and shelf life, high Brix and high stable yield even in poor seasons – it is our PROTON
<b>PAVLINA</b>	mid-early	XL	C	firm	6	140	High	Very High	👎	👍👍	👍	👎	HR Ve	perfect for manual harvest first of all nice fruits with high content of dry matter
<b>ORBIT</b>	mid-late	S	E	very firm	8	75	High	High	👍👍	👍👍	👍	👍	HR Ve	stable high yields in poor condition proven to perform well in subtropical conditions
<b>DENAR</b>	mid-late	XL	I	firm	7	100	High	Very High	👍	👍👍	👍	👎	HR Ve	nice uniform blocky fruits with intensive red color, perfect result even in arid sandy soil
<b>TRITONEX</b>	late	M	D	very firm	8	85	High	Very High	👍👍	👍👍	👎	👎	HR Ve	highly resistant to leaf diseases, high content of dry matter, even for arid areas

👍👍 very suitable    👍 suitable    👎 not suitable



# The best varieties for home garden

Why do we mention varieties for hobby market in PROFI catalog? Because we think of you who pack and sell HOBBY seeds or grows seedlings for home gardeners. In general, it can be said that all our varieties can be grown not only by farmers for whom vegetables provide sustenance, but also by gardeners who grow mainly for fun. And

in practice it really happens that way. However, we can highlight some varieties in our assortment that are very suitable for hobby growers and mention their benefits. And it is precisely this selection that we will try to make in this chapter. So let's get into it.

Crop:	Variety:	Why is it so suitable for hobby growers?
Beetroot	<b>RED SHINE</b>	One sprout variety with intensive red flesh for a good price.
Brussels sprouts	<b>DANET F1</b>	Easy to grow, excellent tolerance to cold allows winter harvest.
Cabbage	<b>PORTOZA F1</b>	Stress resistant, nice for home sauerkraut production.
Carrot	<b>ANINA</b>	Very tasty, confirmed carrot for organic growing.
Carrot	<b>CHAMARE</b>	Juicy, very suitable even for heavy soil.
Celery	<b>MERLIN</b>	High tolerance to Septoriose and bolting.
Cucumber pickl.	<b>CHARLOTTE F1</b>	Very early, slender fruits, not vigorous and easy to harvest.
Cucumber pickl.	<b>GRACIE F1</b>	100% sweet fruits are also nice for fresh, very long fruiting.
Cucumber slic.	<b>MARKYZA F1</b>	The earliest slicer for open field and hoop houses.
Cucumber slic.	<b>MINISPRINT F1</b>	Smaller delicious fruits throughout the all growing season.
Dill	<b>COMPACT</b>	Low plant, dark green color, suitable for pots.
Chives	<b>SM-EPR</b>	Dark green leaves, intense chive aroma, Organic seeds only.
Kohlrabi	<b>GIGANT</b>	Big bulbs, excellent for winter storage, Czechoslovak heirloom.
Lettuce	<b>HUMIL</b>	Butterhead, delicious taste, suitable for overwintering.
Lettuce	<b>BATAVIA</b>	Batavia can be grown from early spring to late autumn.
Onion	<b>ALICE</b>	Onion with the sharpest taste, excellent for goulash.
Onion	<b>KARMINKA</b>	Attractive elliptic onion with intensive red color.
Onion Bunching	<b>GERDA</b>	Very early, delicious taste, green, erect foliage.

Crop:	Variety:	Why is it so suitable for hobby growers?
Parsley Leaf	<b>FESTIVAL 68</b>	Flat leaf type, resistant to Powdery Mildew and Septoria.
Parsley Root	<b>EFEZ</b>	Nice root parsley with the healthiest and most shiny leaves.
Parsnip	<b>BIELAS</b>	The Award of Garden Merit (AGM).
Green Pea	<b>OSKAR</b>	Very early, long pods, suitability under variable climatic conditions.
Ornamental Pea	<b>AKACIA</b>	Shoots with rosettes of tiny leaves are both tasty and decorative.
Pepper sweet	<b>RAFAELUS F1</b>	The earliest Kapia type pepper, good health.
Pepper sweet	<b>AMY</b>	"Queen" of field peppers with creamy white fruits.
Pepper sweet	<b>HAMIK</b>	Most delicious orange "snack pepper", for indoor and outdoor.
Pepper hot	<b>3 chili brothers</b>	DAMIAN turns red, KILIAN orange, KRISTIAN yellow - 8 cm fruits.
Pepper fiery	<b>VULCAIN</b>	Fruits (700-900,000 SHU) have shape of small golden barrels.
Pumpkin	<b>GOLIAS</b>	Large fruits, best for compotes, suitable also in Organic quality.
Squash-winter	<b>BABY SPAGHETTI F1</b>	Mini spaghetti, golden yellow fruits – about 500 grams.
Squash-summer	<b>TREND F1</b>	Round fruits, young for fresh market and ripe fruits for painting.
Radish	<b>TEKO</b>	Very early, cherry type, mild flavored crispy flesh.
Tomato-bush	<b>KARLA</b>	Beefsteak variety (125 g), compact plant even suitable for pots.
Tomato-indet.	<b>TORNADO F1</b>	Fruits about 100 grams, for open field, stress tolerance.
Tomato-indet.	<b>BRUNITO F1</b>	Healthy and cracking resistant Kumato type, about 120 grams.

# Vegetable seeds for Microgreens

## Microgreens

For microgreens (plants that are harvested at the seedling stage) you can use many different vegetables. And if it does not apply to some crops now, they may end up being used as microgreens in the future. The imaginations of producers and consumers are almost infinite. You will find standard "microgreens" species in our every year price list. On your request we are able to send you a special offer of "microgreens" seeds of almost all kinds of vegetables. All seeds are of course untreated with high germination.

Our standard seed offer for microgreens includes these crops:

- Cabbage - red
- Cabbage - white
- Carrot
- Cress
- Kohlrabi - purple
- Kohlrabi - white
- Leek
- Onion
- Parsley
- Pea - wrinkled
- Radish - black type
- Radish - DAIKON type
- Radish - European type
- Rocket (*Eruca sativa*)

We look forward to your order. For any question please don't hesitate to ask.

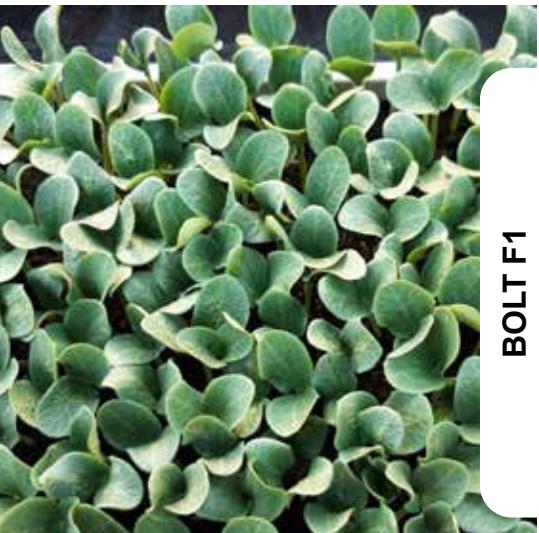




VITALITY F1 (SM - CF 106)



SPRINTER F1



BOLT F1

## ROOTSTOCKS



More about all our Rootstocks

### VITALITY F1 (SM - CF 106)

(*Cucurbita ficifolia* C. Bouche)

A proven rootstock for cucumbers, it has very strong roots and has an affinity with all of SEMO's varieties. Tolerant to fusarium, colder conditions and irregular watering.

### SPRINTER F1

(*Cucurbita maxima* x *C. moschata*)

A Schintosa type rootstock with a very good grafting affinity. Suitable for melons, watermelons and cucumbers. The young seedling stalks have no cavity, which increases success rate with grafting. Adapted to a wide range of climatic conditions. Resistant to Fusarium and tolerant to stressful conditions.

### N BOLT F1

(*Cucurbita maxima* x *C. moschata*)

Tetsukabuto type rootstock suitable for grafting of melons, watermelons and cucumbers. The seedlings of this rootstock grow very uniformly and have strong thick stalk - the essential factors for successful grafting. BOLT is highly tolerant to wilt caused by Fusarium, Pythium and Rizoctonium. The grafted plants are vigorous, high yielding and resistant to cold and other stressful weather.

BOLT also significantly prolongs the life of the grafted plant and thus the harvest period.

### ATLAS F1

(*Lagenaria siceraria*)

ATLAS is a vigorous rootstock, suitable for grafting melons and watermelons. Resistant to Fusarium. Works best at higher temperatures.

### FORTOMA F1

(*Solanum lycopersicum* L. x *L. hirsutum*)

A tall growing rootstock for tomatoes. Tolerant to Fusarium wilt (race 1), Fusarium crown rot, Verticillium wilt and Nematodes. Provides a strong root system which increases the likelihood of a successful graft.

### PROFIT F1 (SM TANT)

(*Capsicum annuum* x *C. chinense*)

A rootstock for peppers. Provides an extensive root system that is tolerant to many soil borne diseases, including Phytophthora. It produces strong vigorous plants during the entire season, including cold periods.



PROFIT F1 (SM TANT)



FORTOMA F1



ATLAS F1



ATLAS F1



Basil CINAMONETTE



Basil COMPAKT



Basil DARK GREEN

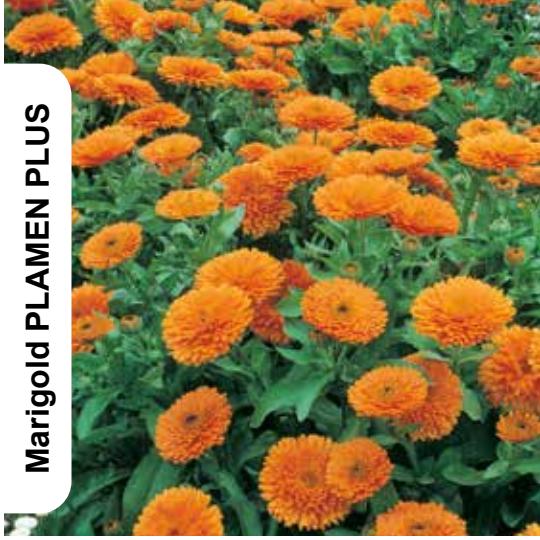
# HERBS

More about all our herbs

We can also offer you seed of some herbs. For more information please contact us.



English name	Latin name	
Basil CINAMONETTE	<i>Ocimum basilicum</i>	cinnamon aroma
Basil COMPAKT	<i>Ocimum basilicum</i>	compact growth habit, fine green leaves
Basil DARK GREEN	<i>Ocimum basilicum</i>	Genovese type, big dark green leaves, for salads
Basil LETTUCE LEAF	<i>Ocimum basilicum</i>	Toscana type, slightly blistered light green leaves
Basil LIME	<i>Ocimum basilicum</i>	lemon aroma, small green leaves
Basil MAMMOLO GENOVESE	<i>Ocimum basilicum</i>	big dark green leaves, for salads and oil production
Basil PURPLE OPAAL	<i>Ocimum basilicum</i>	purple, slightly blistered leaves
Basil RED RUBIN	<i>Ocimum basilicum</i>	purple smooth leaves
Borage (Starflower)	<i>Borago officinalis</i>	stout "honey" herb with azure blue flowers
Cone flower	<i>Echinacea purpurea</i>	disinfecting and antibacterial digestion
Coriander AROMA	<i>Coriandrum sativum</i>	a bolt resistant, "Long Standing" type
Dill	<i>Anethum graveolens</i>	varieties HANAK, COMPACT and MAMUT
Lovage	<i>Levisticum officinale</i>	a very fragrant lovage
Marigold PLAMEN PLUS	<i>Calendula officinalis</i>	high yielding variety with big flowers
Marjoram	<i>Majorana hortensis</i>	varieties include MARIETTA and MARCELKA
Lemon balm CITRA	<i>Melisa officinalis</i>	strong lemon aroma
Lavender	<i>Levandula officinalis</i>	perennial with spikes of blue flowers, very aromatic



Marigold PLAMEN PLUS



Dill



Marjoram

# Recommendations for growing

Crop	Recommended plant density (1000 plants/ha)	Recommended sowing rate (kg/ha)	Thousand seed weight (g)	Number of seeds per gram	Direct sowing date (month)	Production from transplants			Recommended crop spacing (cm between rows x cm within rows )	Germination time (days)	
						sowing depth (cm)	sowing date (month)	transplanting date (month)			
Indoor crops	<b>Cucumber</b>	15 - 20	0.5 - 0.7	25 - 33	30 - 40		3.0 - 4.0	IX. - II.	X. - III.	double rows: 100 cm apart 50 - 60 x 50 - 60	5 - 6
	<b>Lettuce</b>	160 - 200	0.1 - 0.2	0.9 - 1.1	900 - 1 100		0.5 - 1.0	IX. - II.	XI. - IV.	20 - 25 x 25	6 - 8
	<b>Pepper</b>	30 - 40	0.15 - 0.3	5.3 - 8.0	125 - 189		1.0 - 2.0	I. - III.	IV. - V.	50 - 60 x 40 - 50	10 - 18
	<b>Radish</b>	1 250 - 2 200	12.5 - 26.4	10 - 12	80 - 100	X. - II.	1.0 - 1.5			15 x 3 / 20 x 4	5 - 8
	<b>Tomato indeterminate</b>	30 - 40	0.09 - 0.15	3.1 - 3.5	286 - 323		1.0 - 1.5	XI. - III.	I. - V.	3 - 4 plants/m <sup>2</sup>	8 - 12
Field crops	<b>Bean - bush</b>	400 - 600	76 - 138	190 - 230	4.0 - 5.0	V.	4.0 - 7.0			40 x 6 - 10	5 - 7
	<b>Bean - climbing</b>	200 - 300	80 - 200	610 - 730	1.4 - 1.6	V. - VI.	4.0 - 10.0			60 x 6 - 10	5 - 7
	<b>Beetroot - abraded</b>	200 - 600	2.2 - 6.0	11 - 20	50 - 91	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	<b>Beetroot - not abraded</b>	200 - 600	3.0 - 6.0	15 - 20	50 - 67	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	<b>Beetroot - one sprout type</b>	200 - 600	1.2 - 2.7	6.0 - 9.0	111 - 167	IV. - VI.	2.0 - 3.0			30 x 10 - 15	8 - 14
	<b>Brussels Sprout</b>	25 - 30	0.09 - 0.1	3.6 - 4.1	244 - 278	IV. - V.	1.0	IV.	V. - VI.	60 x 60	4 - 6
	<b>Cabbage - processing</b>	25 - 30	0.09 - 0.15	3.8 - 5.0	200 - 263	IV. - V.	1.0 - 1.5	IV. - V.	V. - VI.	60 x 50 - 60	4 - 8
	<b>Cabbage - storage</b>	30 - 40	0.1 - 0.2	3.8 - 5.0	200 - 263	IV. - VI.	1.0 - 1.5	IV.	V.	50 - 60 x 50 - 60	4 - 8
	<b>Cabbage - summer crop</b>	40 - 50	0.15 - 0.2	3.8 - 5.0	200 - 263	IV. - VI.	1.0 - 1.5	II. - III.	III. - IV.	40 - 50 x 50	4 - 8
	<b>Cabbage - very early</b>	50 - 70	0.2 - 0.3	3.8 - 5.0	200 - 263		1.0 - 1.5	I. - II.	III. - IV.	40 - 50 x 40	4 - 8
	<b>Carrot - for bunching</b>	1 200 - 2 000	1.0 - 2.2	0.65 - 1.2	800 - 1 500	III. - VII.	1.0 - 2.0				15 - 20
	<b>Carrot - for processing</b>	800 - 1 500	0.7 - 1.4	0.65 - 1.2	800 - 1 500	III. - IV.	1.0 - 2.0			usually beds with 1 - 3 double rows	15 - 20
	<b>Carrot - main crop</b>	600 - 1000	0.4 - 1.2	0.65 - 1.2	800 - 1 500	III. - V.	1.0 - 2.0				15 - 20
	<b>Celeriac</b>	50 - 67	0.02 - 0.05	0.3 - 0.5	2 000 - 3 300		0.5	II. - III.	V.	50 x 40 - 30	14 - 21
	<b>Corn salad</b>	2 500 - 4 000	5.8 - 10.0	2.3 - 2.5	400 - 435	III. - IV., VIII. - IX.	1.0				12.5 - 20 x 2
	<b>Cucumber pickling</b>	30 - 50	0.8 - 1.5	17 - 22	45 - 58	IV. - V.	3.0 - 4.0	IV.	V.	120 x 20 - 25	5 - 6
	<b>Cucumber salad</b>	30 - 40	0.6 - 1.0	20 - 28	35 - 50	IV. - V. (VI.)	3.0 - 4.0	IV. - V.	V. - VI.	120 x 20 - 25	5 - 6
	<b>Dill</b>	20 000 - 70 000	30 - 100	1.3 - 1.8	556 - 769	III. - VIII.	1.0 - 2.0			20 x 2 - 4	15 - 20
	<b>Pea - big seeds</b>	900 - 1200	170 - 300	180 - 240	4.0 - 5.0	III. - IV.	5.0 - 8.0			12 x 5	6 - 8
	<b>Pea - small seeds</b>	1000 - 1200	100 - 180	115 - 160	6.0 - 9.0	III. - IV.	5.0 - 8.0			12 x 5	6 - 8
	<b>Chinese cabbage</b>	60 - 80	0.16 - 0.24	2.7 - 3.0	333 - 370	VI.-VII.	1.0 - 1.5			40 x 30 - 40	6 - 8
	<b>Kohlrabi - early</b>	100 - 200	0.7 - 1.0	3.5 - 5.0	200 - 286		1.0 - 1.5	I.	I. - III.	20 - 30 x 25 - 30	6 - 8
	<b>Kohlrabi - late</b>	80 - 130	0.3 - 0.7	3.5 - 5.0	200 - 286		1.0 - 1.5	III. - IV.	IV. - VI.	30 - 40 x 25 - 30	6 - 8
	<b>Leek - autumn harvest</b>	170 - 200	0.6 - 0.9	2.9 - 3.3	303 - 345	IV.	2.0 - 2.5	IV.	V. - VI.	40 x 10 - 15	14 - 25
	<b>Leek - overwintering</b>	170 - 200	0.6 - 0.9	2.9 - 3.3	303 - 345	V.	2.0 - 2.5	IV. - V.	V. - VII.	40 - 50 x 10 - 15	14 - 25
	<b>Leek - summer harvest</b>	200 - 250	0.7 - 1.0	2.9 - 3.3	303 - 345	III. - IV.	2.0 - 2.5	III. - IV.	IV. - V.	40 - 50 x 10 - 15	14 - 25
	<b>Lettuce butterhead - overwintering</b>	130 - 160	0.1 - 0.2	0.9 - 1.1	900 - 1 100	VIII. - IX.	0.5 - 1.0	VIII.	IX. - X.	25 x 25 - 30	6 - 8
	<b>Lettuce butterhead - spring and autumn</b>	130 - 160	0.1 - 0.2	0.9 - 1.1	900 - 1 100	III. - IV., VII.	0.5 - 1.0	II.	III. - IV.	25 x 25 - 30	6 - 8

Crop	Recommended plant density (1000 plants/ha)	Recommended sowing rate (kg/ha)	Thousand seed weight (g)	Number of seeds per gram	Direct sowing date (month)	Production from transplants			Recommended crop spacing (cm between rows x cm within rows )	Germination time (days)	
						sowing depth (cm)	sowing date (month)	transplanting date (month)			
Field crops	Lettuce butterhead - summer	60 - 120	0.09 - 0.2	0.9 - 1.1	900 - 1 100	IV. - VI.	0.5 - 1.0			30 - 40 x 30 - 40	6 - 8
	Lettuce iceberg	50 - 80	0.09 - 0.2	1.0 - 1.2	830 - 1 000	IV. - VI.	0.5 - 1.0			40 - 50 x 30 - 40	6 - 8
	Lettuce leaf	110 - 130	0.09 - 0.1	0.9 - 1.1	900 - 1 100	VII.	0.5 - 1.0	II.	III. - IV.	30 x 30 - 25	6 - 8
	Marjoram	250 - 300	0.05 - 0.06	0.19 - 0.21	4 762 - 5 263		shallowly	II. - III.	IV. - V.	25 x 15 (2 - 3 plants)	10 - 20
	Mellan	15 - 20	0.4 - 0.5	24 - 25	40 - 42		3.0 - 4.0	III. - VI.	V. - VI.	120 x 40 - 50	8 - 10
	Onion - overwintering	1 250 - 1 500	4.0 - 5.0	3.2 - 4.0	250 - 310	15th-25th VIII.	2.0 - 2.5			usually beds with 4 - 7 double rows	12 - 18
	Onion - spring	900 - 1 000	3.0 - 4.0	3.2 - 4.0	220 - 280	III. - IV.	2.0 - 2.5				12 - 18
	Parsley leaf	1 000 - 7 500	1.5 - 12.0	1.3 - 2.3	435 - 769	III. - IV., VIII.	1.0 - 2.0			10 - 20 x 1 - 3	18 - 30
	Parsley root	500 - 800	0.6 - 1.2	1.1 - 1.5	667 - 909	III. - IV.	1.0 - 2.0			30 - 40 x 4 - 5	18 - 30
	Parsnip	350 - 800	1.5 - 4.0	4.2 - 5.1	196 - 238	II. - IV.	1.0 - 2.0			30 - 40 x 4 - 7	20 - 30
	Pepper	20 - 35	0.15 - 0.25	7.0 - 8.0	110 - 140		0.8 - 1.2	I. - III.	IV. - V.	double rows: 80 - 100 cm apart 40 - 50 x 35- 40	10 - 18
	Pumpkin	5	0.6 - 1.0	130 - 200	5.0 - 8.0	IV. - V.	5.0 - 7.0			200 x 100	8 - 10
	Radish - Daikon (mooli)	50	0.5 - 0.6	11 - 12.4	81 - 91	VII. - VIII.	2.5 - 3.5			50 x 40	5 - 8
	Radish - standard type	1 250 - 2 200	12.5 - 26.4	10 - 12	83 - 100	II. - III., V., VII. - VIII.	2.0 - 3.0			15 x 3 / 20 x 4	5 - 8
	Savoy Cabbage	40 - 62	0.1 - 0.3	2.9 - 5.0	200 - 345	V.	1.0 - 2.0			0.4 - 0.5 x 0.4 - 0.5	4 - 6
	Scallop squash	12 - 14	0.9 - 1.1	79 - 83	12 - 13	IV. - V.	3.0 - 4.0	IV. - V.	IV. - V.	120 x 60 - 70	8 - 10
	Spinach - autumn	2 200 - 2 500	15 - 25	6.0 - 12.0	71 - 91	III. - IV., VII. - IX.	2.0 - 3.0			20 - 25 x 2	6 - 8
	Squash	8 - 10	1.0 - 2.0	130 - 200	5.0 - 8.0	IV. - V.	5.0 - 7.0			120 - 150 x 80	8 - 10
	Sweet corn	60 - 130	11 - 27	185 - 210	5.0 - 6.0	V. - VI.	5.0 - 10.0			40 - 70 x 20 - 25	10 - 12
	Swiss Chard	170 - 250	2.5 - 5.0	15 - 20	50 - 67	IV. - V.	3.0 - 5.0			40 x 10 - 15	8 - 14
	Tomato bush	80 - 120	0.4 - 0.8	2.3 - 2.9	345 - 435	III. - V.	1.0 - 2.0	III. - IV.	V.	double rows: 100 x 50 x 40	8 - 12
	Tomato indeterminate	30 - 40	0.09 - 0.15	3.1 - 3.5	286 - 323		1.0 - 2.0	XI. - III.	III. - V.		3 - 4 plants/m <sup>2</sup>
	Watermelon	10 - 15	0.2 - 0.6	22 - 42	24 - 45		3.0 - 4.0	IV. - V.	V. - VI.	150 x 60	8 - 10

KOSOVO



BELARUS

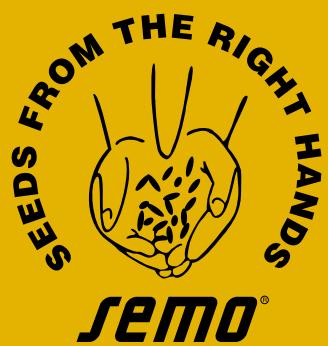


SERBIA



HUNGARY





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