

“PALADINKA F1”

- Appropriate for growing in heated spaces for forced growth, plastic greenhouses and plastic covers
- High fertility (1-3 fruits per node)
- Colour of fruit is medium- to dark green, length: 20cm
- Fruit has firm peel and short-term storability



“FORMULE F1”

- “FORMULE F1” is an early cucumber forming the transition between short and long cucumbers
- Recommended for growing in plastic premises –very early harvests
- We can harvest fruits 16cm long or let them grow up to the length of long cucumbers (24 cm)
- Appropriate also for autumn forcing



“EMILIE F1”

- Extremely early cucumber
- Appropriate for growing in greenhouses and plastic greenhouses
- Fruits are medium long (20 cm); colour is dark green; smooth
- Peel is firmer



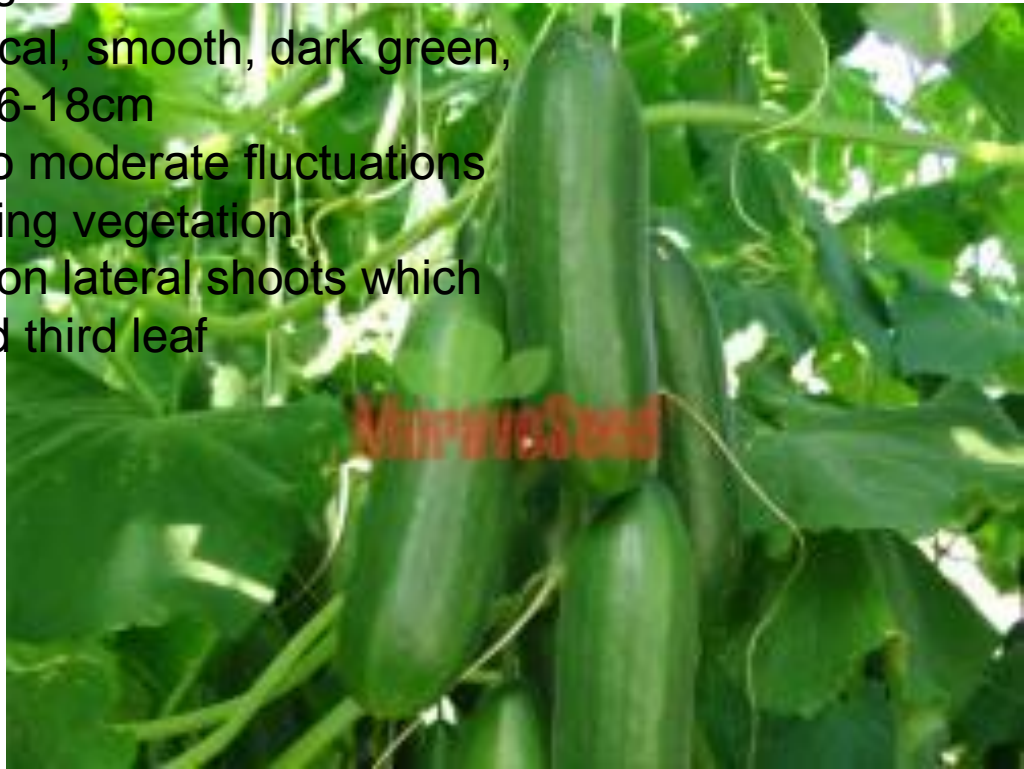
“TWENTY F1”

- Early parthenocarpic hybrid variety with exclusively female blooming
- Intended for forcing in greenhouses and high foil covers
- Fruits are cylindrical, smooth, dark green, 20-22cm
- Growing of fruits on lateral shoots
- Good tolerance to moderate fluctuations in temperature during vegetation



“SHERPA F1”

- Early parthenocarpic hybrid variety with exclusively female blooming
- Appropriate for forcing in greenhouses and high foil covers
- Fruits are cylindrical, smooth, dark green, smaller of length 16-18cm
- Good tolerance to moderate fluctuations in temperature during vegetation
- Growing of fruits on lateral shoots which are chipped behind third leaf



“TOLSTOJ F1”

- Early parthenocarpic hybrid variety with exclusively female blooming
- Appropriate for forcing in greenhouses and high foil covers
- Fruits are genetically non-bitter
- Fruits are dark green, short and cylindrical, 18cm long
- Good tolerance to moderate fluctuations in temperature
- High tolerance to downy mildew of cucumber
- Growing of fruits on lateral shoots which are chipped behind third leaf



Long cucumbers are not grown in CR

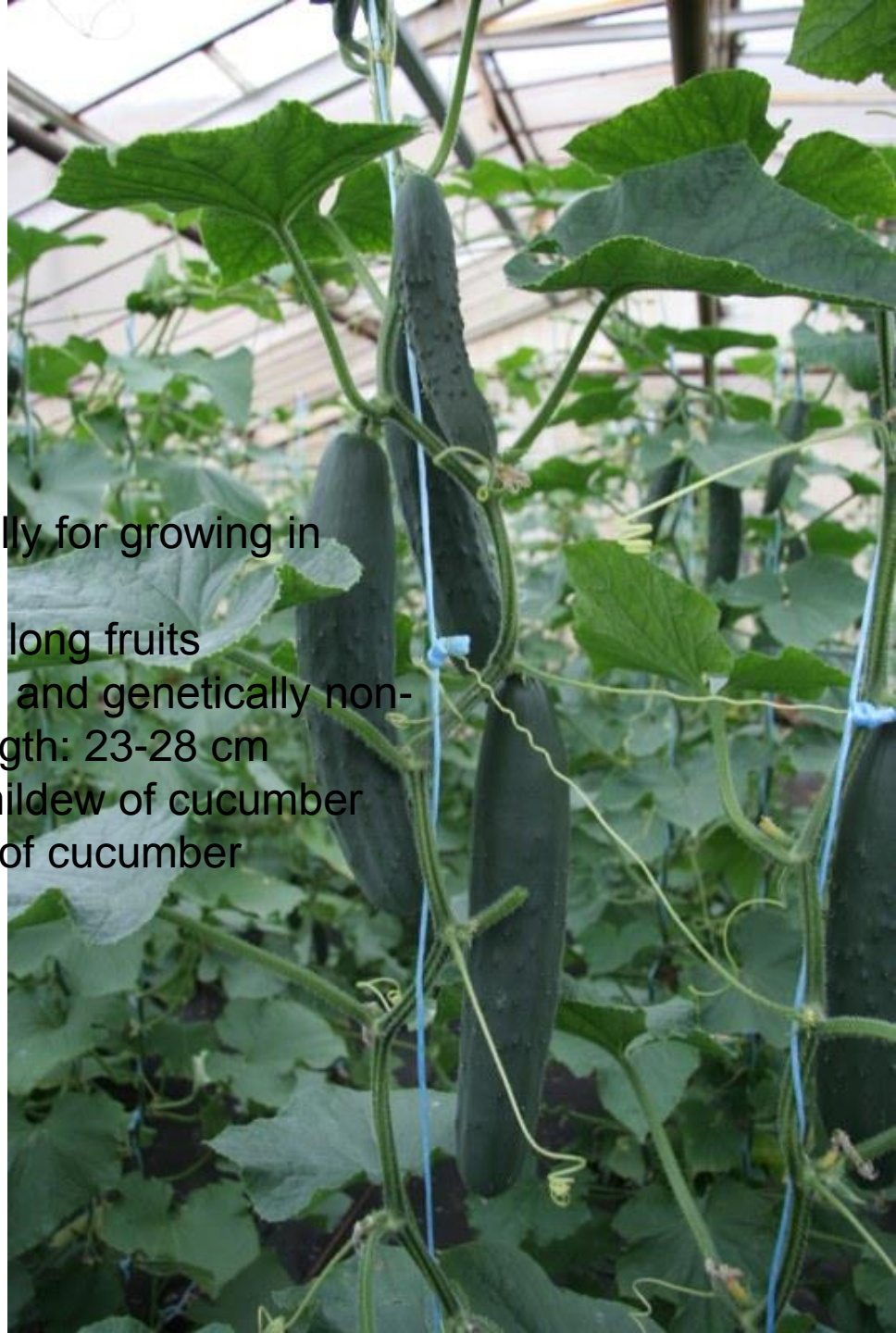
("SUPERSTAR F1").

- Appropriate for spring and summer forcing in greenhouses and high foil covers
- Fruits of 25-30cm
- Fruits are dark green, gently ribbed



“AMANDA F1”

- Appropriate especially for growing in plastic greenhouses
- Early cucumber with long fruits
- Fruits are cylindrical and genetically non-bitter, dark green, length: 23-28 cm
- Tolerant to downy mildew of cucumber and powdery mildew of cucumber



“TRIBUTE F1”

- Early cucumber
- Appropriate for spring and summer forcing in greenhouses and high foil covers
- Fruits are attractive, dark green, 28-35 cm long
- High amount of dimensionally balanced fruits
- Size of TRIBUTE: between "SUPERSTAR" and "VISTA" varieties



“VISTA F1”

- Typical cucumber with long fruits
- Appropriate for year round growing in greenhouses
- Fruits are medium green, 35-40 cm long with significant neck
- Tolerant to shortening of days - can be used for autumn forcing



“ORCA F1”

- Cucumbers with long fruits
- Fruits are dark green, up to 50cm long, gently ribbed, medium neck
- Appropriate for spring and autumn forcing in greenhouses and high foil covers



“SATURN F1”

- Parthenocarpic hybrid variety with exclusively female blooming
- Appropriate for forcing in greenhouses and plastic covers
- Fruits are cylindrical, dark green
- Fruits: 30-35cm long



“MARTA F1”

- Older profitable parthenocarpic hybrid variety
- Appropriate for forcing in greenhouses
- Long period of fertility
- Fruits are slim, cylindrical, and almost smooth
- Fruits: 32-35 cm long
- Fruits of delicious taste and dark green colour



“SALADIN F1”

- Hybrid variety with predominantly female blooming
- Appropriate for growing in greenhouses and high foil covers
- Good tolerance to moderate fluctuations in temperature
- Fruits: 30-35 cm long



Gherkins

- Tolerant to downy mildew of cucumber

CR in no 1 producer of gherkins in Europe

Sorting for pickling factories- 5 size categories (according to thickness of fruit)

A. up to 25 mm – 9 CZK/kg

B. 26 – 30 mm

C. 31 – 38 mm

D. 39 – 50 mm

E. above 50 mm - 0.50 CZK/kg

Varieties with rough, sparse spines
“REGINA F1”

- Grower - Ing. Holman, 1966
- Semi-early hybrid variety
- Very appropriate into colder areas for growing cucumbers
- The most fertile variety
- Shorter tolerance to downy mildew of cucumber (10 days)
- If one preventive spraying is applied, gherkins will last without moulds up to arrival of frosts



“BOHEMIA F1”

- Very early, medium-high variety
- Fruits are longer, slim, dark green with very favourable share of sorting
- High tolerance to downy mildew of cucumber - 15-16 days
- Fruits are genetically non-bitter



“BLANKA F1”

- Very strong-growing variety that perfectly regenerates
- Very high tolerance to downy mildew of cucumber - 20 days
- Overall excellent health condition
- Good tolerance to worse climate conditions, and lower and higher temperatures with relative lack of irrigation
- Variety is barrel-shaped –not grown so much



“BÁRA F1”

- Very early variety
- Medium-high variety
- High tolerance to downy mildew of cucumber - 18 days
- Fruits are longer, slim and dark green
- With very favourable share of sorting



“CHANTAL F1”

- Variety with sparse and rough spines
- Fruits are attractive and very balanced
- High share of sorting in I. category
- High tolerance to downy mildew of cucumber - 18 days



“IWONNA F1”

- Rough-spiny gherkin
- Fruit is light in colour
- Intended especially for eastern markets - demand for lighter cucumbers
- Very appropriate for production of fermented cucumbers; Iwonna is excellent in its firm consistency and narrow core
- High tolerance to downy mildew of cucumber



“ADMIRA F1”

- Older variety
- Not exceptional
- Worse tolerance to downy mildew of cucumber - only 10 days



“CORVETA F1”

- Early, highly profitable variety with predominantly female blooming
- Appropriate for every cucumber growing area
- Fruits are dark green with significant rough and sparse spines
- Fruits are genetically non-bitter
- High tolerance to downy mildew of cucumber



“ALTAJ F1”

- Early up to semi-early, highly profitable hybrid variety with predominantly female blooming
- Appropriate for every cucumbers growing area
- Fruits are light green and cylindrical with rough and sparse spines
- Fruits are genetically non-bitter
- High tolerance to downy mildew of cucumber



“ALICE F1”

- Semi-early variety with predominantly female blooming
- Fruits are roughly and sparsely spiny with cylindrical shape
- Fruits are genetically non-bitter
- Fruit is medium green with light green annealing towards the peduncle
- High tolerance to downy mildew of cucumber



“FANTASY F1”

- Semi-early hybrid variety
- Fruits are smaller and cylindrical, with sparse, rough spines
- Fruits are genetically non-bitter
- High tolerance to downy mildew of cucumber



“MARIETA F1”

- Semi-early, highly profitable variety with predominantly female blooming
- Fruits have rough, sparse spines, cylindrical shape; medium green
- High tolerance to downy mildew of cucumber



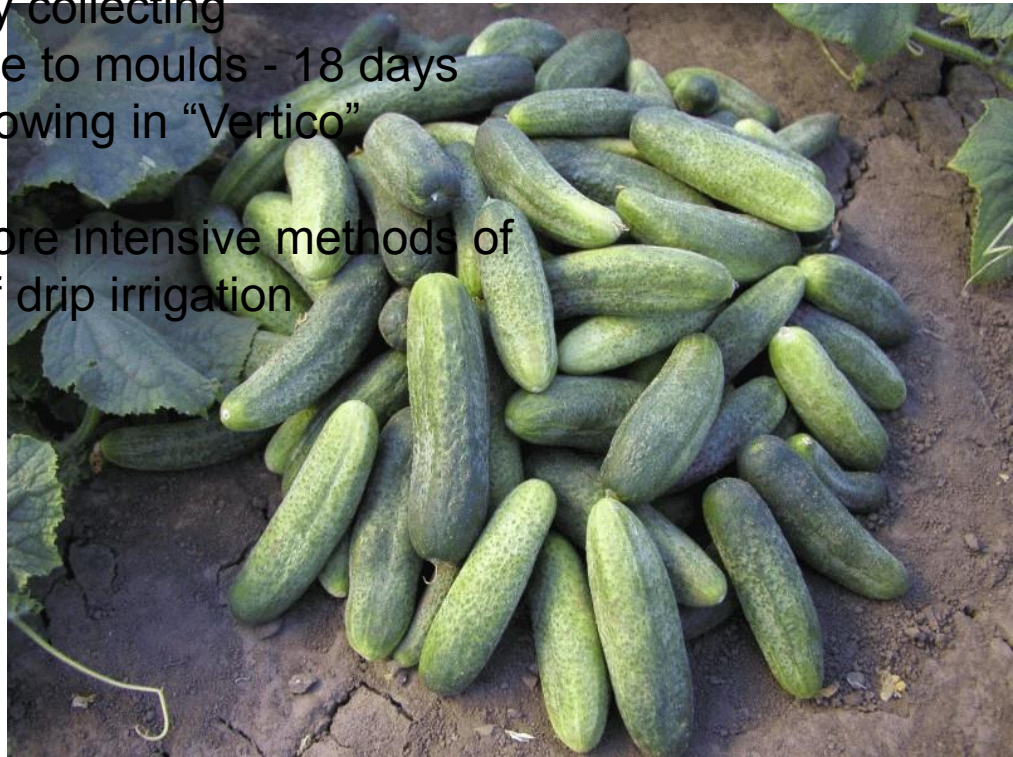
“DALILA F1”

- Semi-early, profitable hybrid variety with predominantly female blooming
- With rough and sparse spines
- Appropriate for colder areas for growing cucumbers
- High tolerance to downy mildew of cucumber



Varieties with gentle and dense spines
“CHARLOTTE F1”

- Grown in CR, very early variety
- Fruits are longer and slim
- Small height, easy collecting
- Excellent tolerance to moulds - 18 days
- Appropriate for growing in “Vertico” system
- Appropriate for more intensive methods of growing with use of drip irrigation



“ORNELLO F1”

- Grown in CR, semi-early variety
- Fruits are medium-long and slim
- Variety has high yields and thin peel
- Long production: from July till autumn
- Excellent tolerance to moulds - 18 days
- Small height
- Appropriate for intensive method of growing on foils and in “Vertico”



“TWIGY F1”

- Semi-early, highly profitable hybrid with predominantly female blooming
- Appropriate for every area for growing cucumbers
- Fruits are dark green, almost smooth with dense and gentle villosity
- High tolerance to downy mildew of cucumber



“MIRA F1”

- Semi-early hybrid
- Appropriate for field growing, especially in warmer areas
- Fruits have dense and gentle villosity; overgrow slowly
- High tolerance to downy mildew of cucumber



Parthenocarpic varieties with clean and crispy pulp without seeds – taste better, lower fertility “SONADA F1”

- Parthenocarpic gherkin
- Very profitable variety
- Appropriate for intensive methods of growing with use of drip irrigation
- High tolerance to downy mildew of cucumber



“ELISABET F1”

- Very early parthenocarpic variety
- Hardy variety with good health condition
- Fruits are firm, dark, with gentle spines
- High yields even without regular irrigation
- Prone to moulds



“HARRIET F1”

- Parthenocarpic gherkin
- Cylindrical shape of the fruit and dark green colour
- Very high yield
- For intensive method of growing
- Very high tolerance to downy mildew of cucumber



“ALHAMBRA F1”

- Early parthenocarpic variety
- Fruits are dark green, cylindrical shape, genetically non-bitter
- High tolerance to downy mildew of cucumber



“KAREN F1”

- Parthenocarpic early hybrid variety with almost exclusively female blooming
- Appropriate for all areas growing cucumbers
- Fruits are medium to dark green, genetically non-bitter
- With very dense and gentle villosity
- High tolerance to downy mildew of cucumber



“PARTNER F1”

- Parthenocarpic, semi-early hybrid
- With high yields and almost exclusively female blooming
- Appropriate for all areas growing cucumbers
- Fruits are medium to dark green, genetically non-bitter, almost smooth with dense and gentle villoity
- High tolerance to downy mildew of cucumber



“ZUZANA F1”

- Semi-early parthenocarpic hybrid
- Fruits are smaller, cylindrical, sparsely bumpy with rough spines
- Fruits are genetically non-bitter
- Very high tolerance to downy mildew of cucumber



“OTHELLO F1”

- Foreign – good
- Competitive with Czech varieties
- Tolerant to downy mildew of cucumber
- Other foreign varieties are worse than the Czech varieties

Do not grow – worse – lower resistance,
worse shape
“ALENA F1”
“ANUSCHKA F1”
“BLANKA F1”
“FATIMA F1”
“NORA F1”
“OCTOPUS F1”
“BÁRA F1”
“HANA F1”, “PAVLA F1”, “DANA F1” “ADA
F1” –not tolerant to moulds, seeds cost the
same!



Do not grow non-hybrid varieties!

- Internodes 80cm long with only 1 female bloom:

- “Palava”, “Mělnické”, “Bilské”

- In 1945 – seeds are cheap – bag of seeds costs only 5 CZK (hybrid: 25 CZK)

- Hybrid varieties have 20-25cm internodes and there are 3-5 female blooms on one node. Grow hybrid varieties - moreover, they are tolerant to moulds

There are hybrid varieties prone to mould (!) for the same price



Pumpkin - Cucurbita

Origin – warm areas of America – Indians

□ Bush pumpkin – forms: pattypan squashes, zucchinis, oil pumpkin

□ Winter squash - trailing stem, fruits weigh 20kg and more

- Home and industrial processing:
- Compote, salads, candied pumpkin and production of jams
- Oil pumpkin – greenish seeds without peel (like a nut) – oil, drugs, health food, and source of Zn
- Ornamental pumpkins – aesthetic value

Nutritional values

Dry matter 7-13%

Fibre 1.6-2.3%

Carbohydrates 2.0-8.0%

Protein 0.8-1.6%

Oils – oil pumpkin – up to 54% -
digestibility coefficient 98.2%

High content of pectin



Dietary minerals (mg.1,000g-1)

Ca 230

P 300-600

Mg 100-200

K 1,400-3,500

Fe 8-15

Zn – seeds

Vitamins (mg.1,000g-1)

C 100-160

Provitamin A 2.0-4.0 – varieties with
orange pulp

- Pumpkin -
Cucurbita pepo L.
- • Bush growth,
angular stalk
- • Firm, angular fruit
peduncle
- • Fruits have
different shapes
and colours
- • Significant



- Types of pumpkin
- Cucurbita pepo
ssp.
- Giromontina -
zucchini (white -
vegetable marrow)
- Patissonia -
pattypan squashes
- Oleifera - oil
pumpkin – seeds

- Zucchini
- – It has the greatest economic importance
- – Replaces cucumbers; zucchini is not poisonous
- – Zucchini resist downy mildew of cucumbers for longer (35 days)
- – Early premature harvest
- • Length up to 20cm and max. weight of 500g



Zucchini with light fruits
“BĚTKA F1”

- Grown in CR
- Creamy white colour
- Vegetation period: 65 days



“GOLDLINE F1”

- Grown in CR, vegetation period: 65 days till first harvest
- Fruits of golden yellow colour and 20-30cm in length
- Excellent taste: sweet with a higher content of beta-carotene
- Young leaves have significant yellow markings at low temperatures; markings turn dark green later



Zucchini with green fruits
“STARTGREEN F1”

- Grown in CR, vegetation period: 60 days till first harvest
 - Fruits are dark green, 15-20cm length
- Green zucchini has the tastiest fruits



“TAPÍR“

- Grown in CR, vegetation period: 70 days
- Distinct whitish stripes

“NEFFERTITI“

- Grown in CR, vegetation period: 75 days
- Colour: dark green with marbling

“JIGONAL“

- Fruits are medium green, shorter and annealed

“SARDANE F1” – top foreign variety

“AMBASADOR F1” - top foreign variety



“TONDO CHIARO DI NIZA“

- „Zucchini for seeds production“
- Round fruits contain a large amount of seeds with peel
- Seeds can be harvested up to first frosts



Tykev cuketa
Cuketa para 1.



JIGONAL

Tykev cuketa
Cuketa para 1.



BLACK BEAUTY

Tykev cuketa
Cuketa para 1.



AMBASSADOR F1
HYBRID

Tykev cuketa
Cuketa para 1.



STARTGREEN F1
HYBRID

Tykev cuketa
Cuketa para 1.



STRIATO DI NAPOLI

Tykev cuketa - infata
Cuketa para 1.



TONDO DI PIACENZA

Novinka

Pattypan squashes

- Harvested in 2 sizes:

- Size of 3-5 cm, peel is light green and soft; whole pattypan squashes are preserved in sweet and sour pickle with oil

- 15cm and more: white peel is firm; fruits are preserved as sliced cubes in sweet and sour pickle with oil; may be cooked also as vegetable schnitzels, storability: 3-4 months

“PATINA“

- Grown in CR

Storability of all pumpkins, which have developed peel, is around 6 months (also for giant pumpkins “Goliáš”)





Oil pumpkin

- The fruits develop into botanical maturity; only seeds without peel of grey-green colour are harvested
- Used like nuts
- Source of zinc
- Matures at the end of July until mid-September
- Scooped out pumpkins remain on the field - just for seeds



“APETIT” - Cucurbita pepo L. var. oleifera

- „Pumpkin without peel“
- Seed production for consumption and pressing
- Excellent health condition
- Seed has high nutritional value – Zn



Winter squash - *Cucurbita maxima* Duch.

- Climbing plant
- Cylindrical stalk
- Juicy and cylindrical peduncle of fruit
- Fruits are big (up to 50 kg) – pulp is orange

Use: production of compote (only for leisure gardeners)



“GOLIÁŠ“

- Elliptical fruits
- Fiery orange peel, orange pulp
- Weight: 25-30 kg (even 150 kg)
- Appropriate for preservation
- Nobody wants to harvest them
- They are falling from the conveyor belt in a canning plant



“VELTRUSKÁ OBROVSKÁ

- Surface of fruit is pinkish
- Pulp is orange
- Weight: 20-30 kg



“GRAN GIGANTE“

- Fruit is round, shiny, bright orange, smooth and firm
- Weight: 8–12 kg
- Pulp is compact and orange
- Appropriate for Halloween and preservation, same like “GOLIÁŠ”



“HOKKAIDO“

- Fruits are bright orange of flat round shape
- Diameter of fruit is 20-25 cm
- High proportion of pulp compared to ovary
- Pumpkin is tasty and highly versatile
- Highly valued in vegetarian cuisine and healthy nutrition
- With high content of carotene



“DELICIAN F1”

- New Hokkaido hybrid
- Rounder and slightly bigger fruit than HOKKAIDO non-hybrid
- More balanced shape of fruits and higher yield



“LISCIA“

- Very early variety, pear-shaped and elongated fruit of 15 × 30–50 cm
- Colour is light green, later beige
- Pulp is creamy white to light yellow in the early maturation and bright orange in full maturation
- Pulp has buttery and walnut taste with very small number of seeds
- Appropriate for preserving; raw and young fruits for direct consumption – for salads



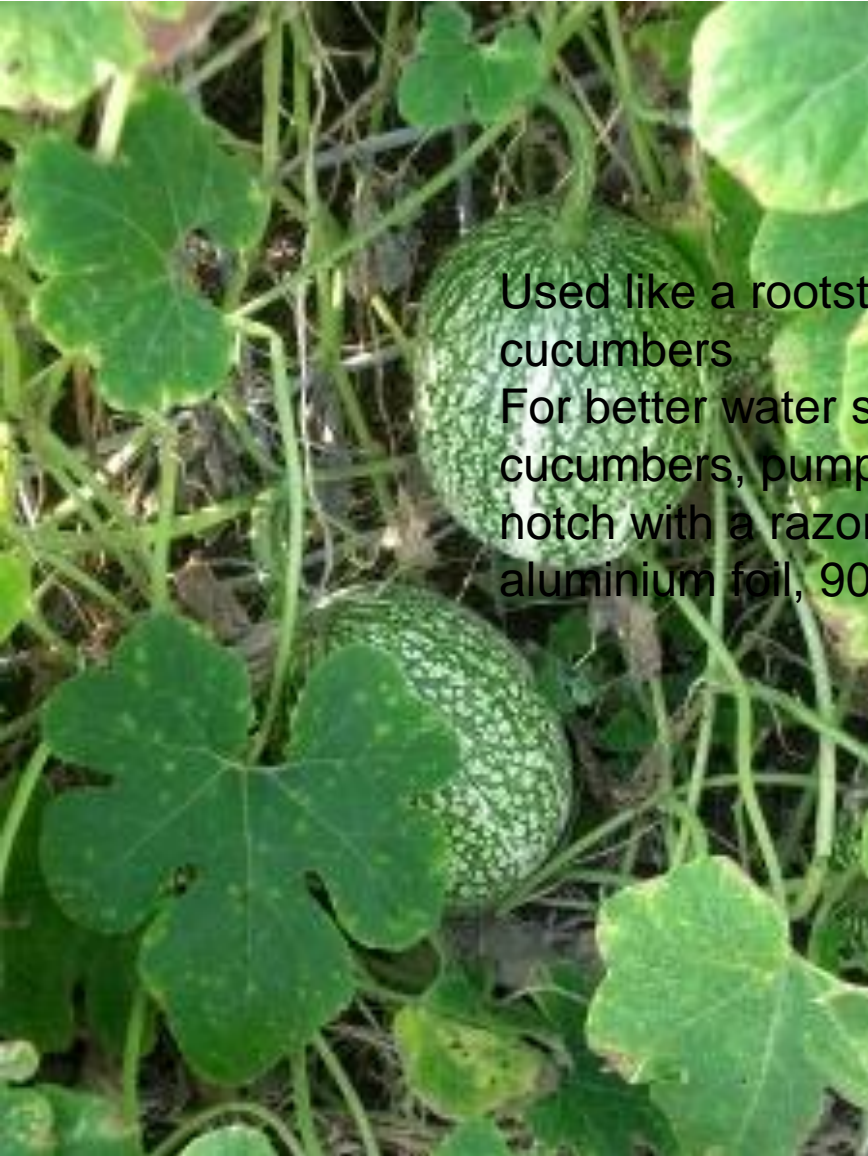


Seven-year melon - *Cucurbita ficifolia*
Rouche.

- Climbing plant
- Leaves are similar to the fig tree leaves

Use. Used as a rootstock for greenhouse cucumbers; un tasty raw, snow-white pulp; seeds have black colour (oil pumpkin – green, other pumpkins – white, beige).





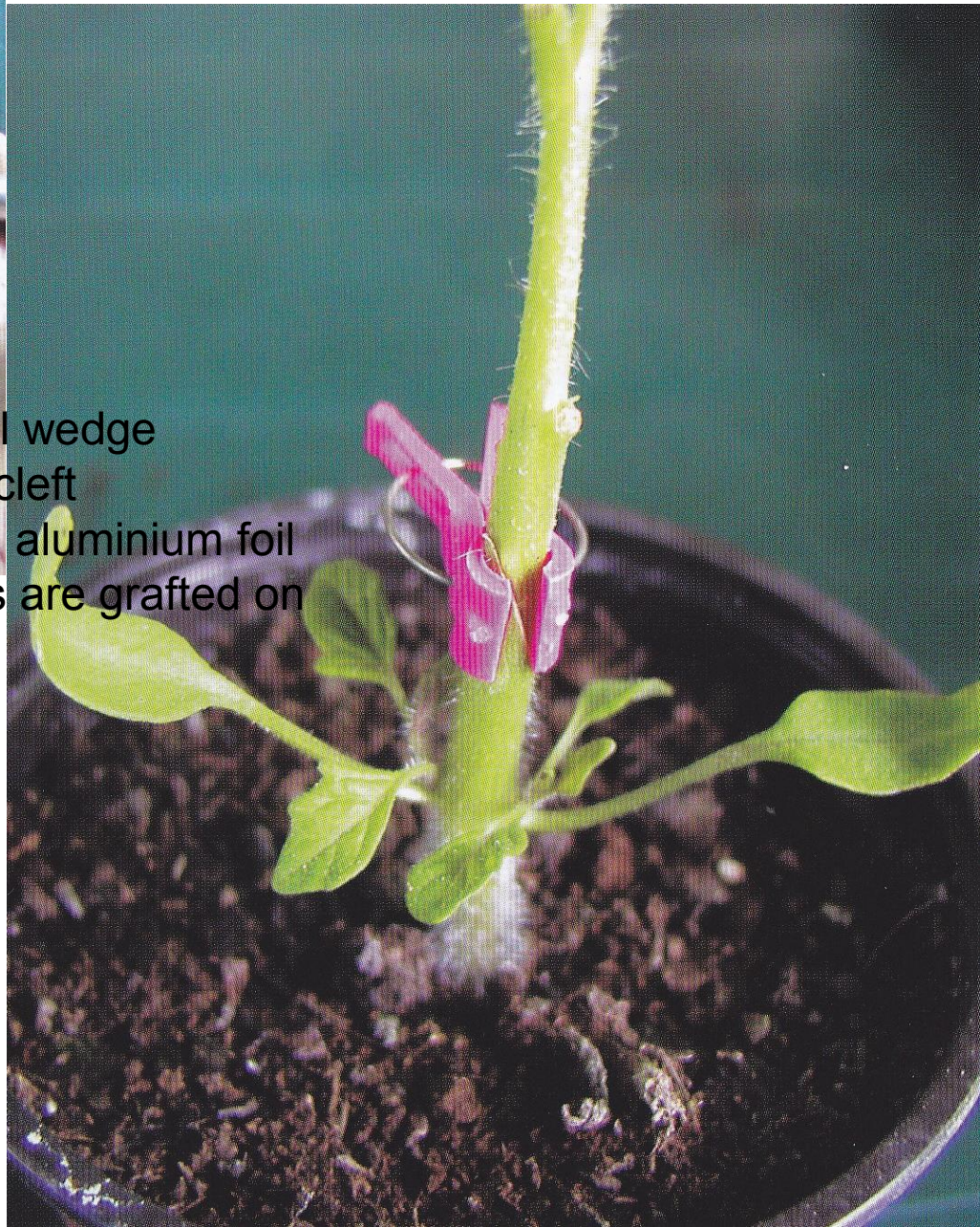
Used like a rootstock for grafting of cucumbers
For better water supply: unlike the cucumbers, pumpkin roots deep. Do the notch with a razor blade into a cleft, aluminium foil, 90% success.





Grafter into a small wedge

- Rootstock into a cleft
- Pull together with aluminium foil
- Three true leaves are grafted on rootstock





Musk pumpkin - *Cucurbita moschata* L.
Decoration





Ornamental – turban-shaped



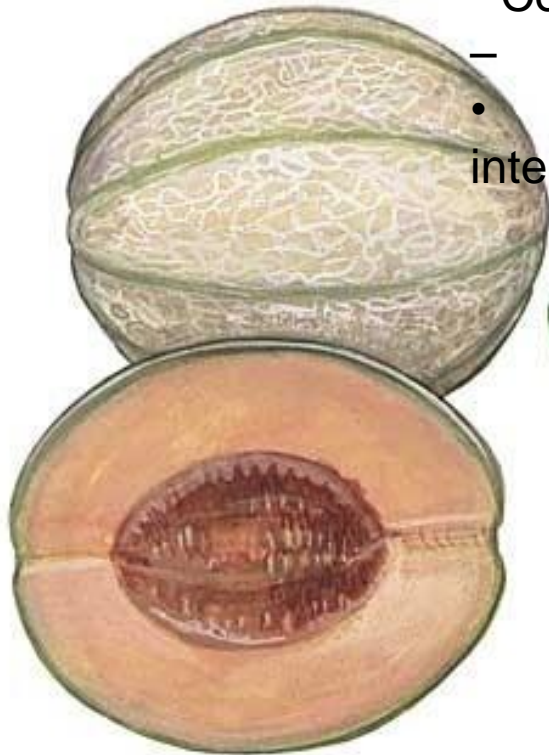


Muskmelon - *Cucumis melo* L.

- Fruits of 1-1.5kg weight
- Margin of leaf is entire, leaf is similar to leaf of cucumber



- Colour of pulp is a varietal characteristics:
 - Yellow, orange, light green
- Seed is similar to cucumber, but is intensely coloured with a touch of orange



Nutritional value
Dry matter 6.8%
Carbohydrates 6.5%
Protein 0.5%
Fats 0.1%
Ash matter 0.5%

Mineral substances (mg.1,000g-1)

K 3,200

S 116

Na 118

Ca 140

Citric acid 0.25%, Vitamin C 147mg/kg



“SOLARTUR”

- Vegetation period: 106-115 days (since sowing to harvest)
- It is a fertile variety, appropriate for growing on fields, also for forcing in plastic greenhouses
- Fruit is spherical, without distinct ribs; peel is yellow brown; weight is 1-1.2kg
- Pulp is light green, juicy, fibrous, aromatic and sweet
- “SOLARTUR” is harvested from middle of July
- 160-200kg fruits can be harvested from 100m²



“ANANAS”

- It is a new variety; vegetation period: 100-110 days
- Fruits have ovoid shape; weight is 1.5-2.5kg
- Peel is orange with gentle netting
- Pulp is white and sweet
- Appropriate for growing on fields, also for forcing in plastic greenhouses
- Resistant to damage during transport



“ORANŽ”

- Beautiful yellow orange pulp

“NEKTAR”

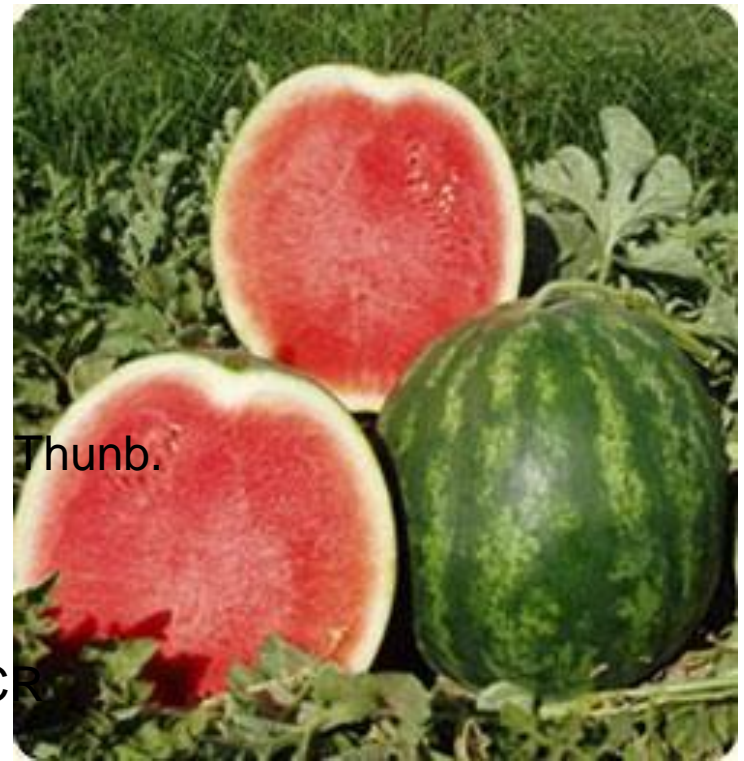
- Soak it into 20-40% solution of sugar
- FROZEN at -20°C – cubes of orange colour
- With whipped cream

Watermelon - *Citrulus lanatus* Thunb.

Origin

- Central and South Africa
- Egypt - 1500 BC

- Very popular vegetable in CR
- Very demanding on heat
- Grown in Turkey, China, Japan and Egypt
- Peel is green and/or white



“CRIMSON SWEET”

- Excellent yields; not too sweet
- Good variety, peel is light green, surface is marbled
- Oval-spherical shape
- Pulp is rich red
- Weight of fruit is 5-10kg
- Vegetation period: 85 days
- Resistant to softening of the pulp



“SUGAR BABY”

- Pulp is dark red
- Pulp is very sweet
- Weight of fruit is 3-5kg
- Very early: matures in 75-80 days
- Resistant to softening of the pulp
- Delicious



“DUNAJ”

- Peel is green
- Oval-spherical shape
- Pulp is rich red
- Weight of fruit is 5-10kg
- Vegetation period: 85 days
- Resistant to softening of the pulp

“ZOBOR F1”

- Tolerates colder conditions
- Surface is light green, marbled with dark stripes
- Pulp is red, sweet and juicy
- Weight of pulp is 3-5kg
- Very early, resistant to softening of the pulp

“LAJKO II F1”

- Very prone to softening of the pulp – as soon as it is over-mature, the pulp separates from the peel and the pulp falls out when the melons is cut open
- Weight of fruit is 4-5kg (medium big)
- Surface is dark green
- Elongated spherical shape
- Pulp is pink
- 380-420kg fruits can be harvested from 100m²



“GRANATE F1”

- Triploid, without seeds, weight is 5-7kg
- Fruits are oval, green with striped surface
- Pulp is firm, red, very sweet – 12% sugars



“SUPER GALAXY F1”

- Very early hybrid
- Pulp is yellow
- Fruit is round, dark green with light green annealing
- Weight around 2.5kg





Watermelon