









INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



Inovace studijních programů AF a ZF MENDELU směřující k vytvoření mezioborové integrace CZ.1.07/2.2.00/28.0302

Tato prezentace je spolufinancovaná z Evropského sociálního fondu a státního rozpočtu České republiky

Root vegetables

CARROT (Daucus carota) Content: 88-90% water, 10-12% dry matter, 3% fibre, 1.4% protein, 8-10% carbohydrates, 0.8% ashes, provitamin A: 35 mg.1,000 g-1 Essential oil: daukol; sesquiterpenes, rich in silion, liver and bladder diseases, diarrhea



Carrot varietiesEarly varieties
Shorter vegetation period: 90-110 days
Columnar shape, blunt root end (today,
differences in shape are not important)

Lower yield: 30 tons

Sowing: twice a year; first sowing in March with harvest at the end of May, and sowing in June with harvest in September/October

Carrot for storage

Late varieties: long vegetation period (160-180 days)

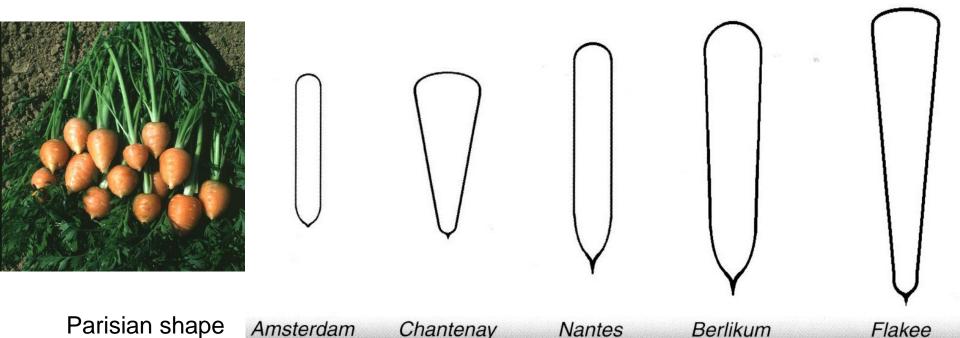
Yield: 80-100 tons (carrot roots: up to 1 kg) Long, conical shape with blunt root ends (today, there are basically no carrots with conical shapes and the colour does not differ either)

Sow late carrot soon; irrigate if the weather is dry

Poorly pre-treated land: carrots do not sprout immediately, but after 2 months; shorter vegetation period, lower yield Storability of carrot: by May, 0-2°C temperature



Amsterodam and Parisian types: forced varieties, early field growing, bundles Amsterodam and Parisian types: forced varieties, early field growing, bundles Nantes: majority of carrots, direct consumption, processing Berlikum and Flakee: direct consumption, storage, dryiny, processing Shapes of carrot roots



Chantenay

Berlikum

Nantes

Flakee

Amsterdam



Seed price: Czech varieties: 800 CZK per

kg Foreign varieties: 8,000 CZK per kg

RONDO

outside

Very early variety, 85 days
Parisian type
Good for leisure gardeners, bundling
Roots: high sugar and dry-matter content,
high resistance to cracking
Root head does not turn green inside or

Sowing:
early in the spring
Repeated sowing until midVariety may be forced in hor
heated facilities for forcing
3-5cm root



MARION F1 Early hybrid, 90-95 days Nantes type all-year growing

Surface and cut of the root head do not turn green, no anthocyanin colouring

Nicely coloured, smooth roots

15-17cm root



ANETA F1
medium early hybrid variety, 100-105 days
Nantes type
Columnar root, blunt end
Root head does not turn green, no
anthocyanin colouring
Growing:
early spring sowing

and subsequent crop sown by mid-July 18-20cm root

VIII LAVUOUGO

GALAXY
medium early hybrid variety, 105Nantes type
Columnar root, blunt end
Root head does not turn green, n
anthocyanin colouring
High yield, stable root shape
18-20cm root



JARANA F 1 (H125/09)
early hybrid, 115-120 days
Nantes type
Very smooth, blunt root
Good colouring inside and outside
Ideal carrot for bundling, and harves
early carrots
Low but firm carrot tops are mechanical
harvested
18-20cm root



KRÁSKA
medium early hybrid variety, 134 days
Berlikum type
Direct consumption, industrial
Columnar, blunt root
Resistant to cracking and anthoc anin
head colouring
Very high yield
18-20cm root



JITKA F1
Medium late hybrid, 135 days
Berlikum type
High yield of large, consistent roots
Carrot may also be prematurely harveste
and bundled for sale
Columnar, smooth blunt roots
No green heads
Ideal for long-term storage and comprocessing

18-20cm root

KAROLA

Medium-late variety, 135 days

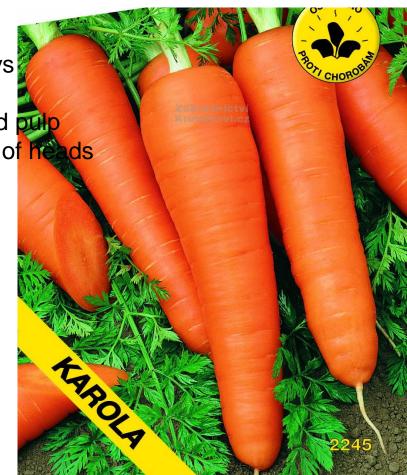
Nantes type

High yield, intensely coloured paper

Resistant to green colouring of heads

Low waste (atypical)

Taproot length: 16-18cm



KAROTINA

Medium-late variety, 135 days

Nantes type

Short-term storage

Smooth, intensely coloured root

Red-orange root

Mild flavour

Resistant to cracking and head greening

Resistant to bolting

14-16cm root



DARINA Late variety, 137-142 days Berlikum type High yield Smooth, columnar root, blunt end Surface and cut of the root head do not turn green, no anthocyanin colouring Highly resistant to alternaria leaf blight and root cracking Good health condition and very good storability Rich in beta-carotene 20-22cm root





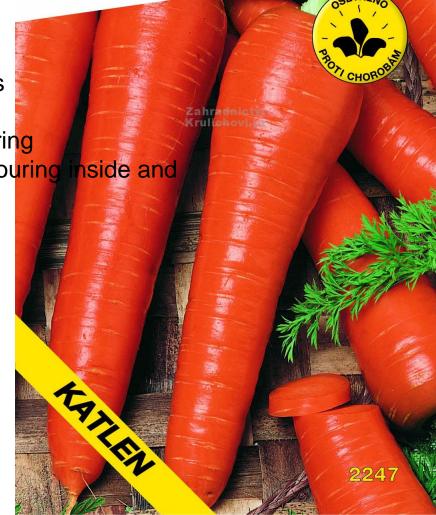
Late variety, high yield, 145 days

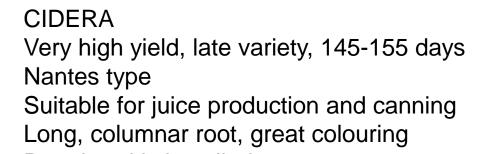
Flakkee type Good especially for mechanized harvest and commercial procesing Very good for canning, freezing, and drying Higher content of dry matter, intense red colour, even after processing 19-23cm

KOLOSEUM F1
Late hybrid, 145 days
Berlicum type
Smooth, strong, consistent roots: ideal for processing industry
Firm green tops enable easy mechanized harvesting
High content of dry matter and storability
19-24cm



Very late variety, 145 days
Berlicum type
Suitable for long-term storing
Long roots, very good colouring inside and outside, consistent shape
Mid-size green tops
18-22cm





Root head is in soil, does not turn green Good for mechanized harvest, grown at ridges

Sowing: spring through end of May

21-23cm root



CORTINA F1
Late hybrid, 150-160 days
Flakkee type
Long, columnar orange-red root
Blunt pointy root end
Root head does not turn green, no
anthocyanin colouring or deformations

Good for mechanized harvest

18-20cm root

TINGA
Late variety, 157-162 days
Flakkee type
High yield, universal potential
Great colouring of root

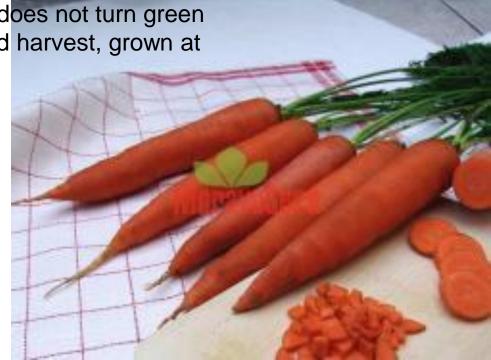
Root head is in soil, does not turn green

Good for mechanized harvest, grown at

ridges

Excellent storability

20-22cm root



	Тур	Ranost	Vegetační doba (dny)	Kořen			Použití			
Odrůda				barva vnitřní/vnější	délka (cm)	tvar	přímý konzum	skladování	průmysl. zpracování	Poznámky
H125/09 F1	Nantes	raná	115 - 120	7/8	18 - 20	Α	++	++	+	vvrovnaný tvar, hladký povrch
NANTES 5 (dříve NANTÉSKÁ)	Nantes	raná	115 - 125	5/7	16 - 18	А	++	+		tradiční odrůda
NANTES 3 (dříve TIP - TOP)	Nantes	poloraná	120	6/7	16 - 20	А	++	+	+	vyrovnaný tvar kořene
ANINA (SM 101/08)	Nantes	poloraná	125	7/7	20 - 22	Α	++	++	+	hladký povrch a vyrovnaný tvar kořene
KARKULKA	Nantes	polopozdní	130	8/8	18 - 22	В	++	++	+	velmi odolná k praskání
KRÁSKA	Berlikum	polopozdní	134	8/8	18 - 20	В	++ 2	++	+	velmi výnosná
KAROTINA	Nantes	polopozdní	135	8/8	14 - 16	С	++	+	++	tradiční odrůda
KAROLA	Nantes	polopozdní	135	8/8	16 - 18	В	+ *	++	+	vyrovnaný tvar kořene
CHAMARE	Chantenay	polopozdní	135	7/7	13 - 15	F	++	+	++	vhodná na výrobu džusů
JITKA F1	Berlikum	polopozdní	135	9/8	18 - 22	D	++	++	++	pro skladování a průmysl. zpracování, lze i podtrhnout a sklízet jako svazkovou
KOLOSEUM F1 NI	Berlikum	pozdní	145	8/8	19 - 24	D	+	++	++	velmi výnosná, pozdní, zejména ke skladování a prům. zpracování
KATLEN	Berlikum	pozdní	145	8/8	10 - 22	D	+	++	++	velmi výnosná, pro skladování a průmyslové zpracování
RUBÍNA	Berlikum	pozdní	145	7/7	18 - 22	D	+	++	++	tradiční odrůda
KARDILA	Flakkee	pozdní	145	8/8	19 - 23	E - 1	+	++	++	velmi výnosná, dobře vybarvená i po zpracování, ideální na sušení
TÁBORSKÁ ŽLUTÁ	Flakkee	pozdní	150	1/1	18 - 24	E-2	+	++	+	žlutá, skladovatelná, výnosná
RONDO	Parisian	velmi raná	85	7/7	průměr 3 - 5	G	++			kulatá, vysoký obsah cukru, vynikající chuť
		H125/09 F1	A	В			D	E		Barva: 1 = žlutá 10 = červená E - 2 F G

Following varieties are not recommended for growing:

NANTÉSKÁ – heads turn green, roots crack, green tops break

STUPICKÁ – poor colouring, carrot centre is yellow

DUWICKÁ – short root, low yield



GARDEN PARSLEY (Petroselinum crispum) Content: water 85 % dry matter 15 % protein 3.5 % carbohydrates 6 % lipids 0.7 % vitamin C - 200 mg /1,000 g (up to 1,600 in green tops) Rich in Ca – 970 mg Mg – 516 mg P – 1,005 mg K – 5,080 mg Fe – 30 mg Apiin: diuretic effect essential oil in root and green tops: diuretic and antibacterial effect

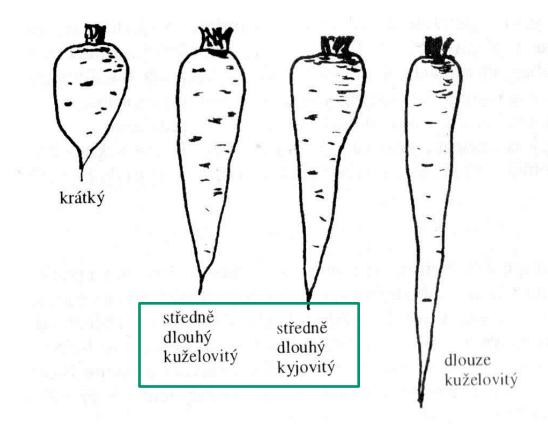
Root shape

Ideal: medium long root, ca. 20cm

Long roots (40-50cm) cannot be harvested,

and may be damaged

Short root: low yield, infested by rodents





ATIKA
Early variety, 170 days
Fast growth of root and green tops
Very smooth, elongated root with ruld
creases
High resistance to mildew
Good storability
Use:
direct consumption, industrial processing

Suitable for bundling



ALBA

Medium-late to late variety, 175-195 days
Medium-long root (15-18cm), rectangular
shape, smooth white surface
High resistance to branching
Aromatic white pulp, no darkening even
after processing
High resistance to rust, mildew and storage
diseases
Sowing early in the spring: 30 x 7 cm

Sowing early in the spring: 30 x 7 cm spacing, ridges are recommended (especially in heavy soils)

Use:

Direct consumption Industrial processing Storage



ORBIS

Medium early variety, 182 d

High yield

Smooth, medium-long white toot

Very good condition

High dark green tops

Good for heavier soils

Good storability

Direct consumption and industrial

processing







HANÁCKÁ
Late variety, 180-200 days
Medium-long, conical or club-shaped root
(14-17cm), cream colour
Aromatic pulp with compact white flesh and
mild marble patterns

Good resistance to rust and storage disesases

Grown for storage

Sowing: early in spring, 30 x 7 cm spacing

Not recommended: OLOMOUCKÁ DLOUHÁ – long root DOBRA short root with strong rust

FAKIR

white, firm root; high tolerance to diseases; storage, drying

EAGLE

Direct consumption and industrial storage

Foreign varieties: Identical parameters, expensive

seedstock

CELERIAC (Apium graveolens)
Content water 89.3 % dry matter 10.7 % protein 1.75 % carbohydrates 9.9 % lipids 0.3 % fibre 1.5 % vitamin C - 80 mg/kg 10 times more in gren tops) Rich in Ca – 740 mg Mg – 330 mg P – 530 mg K – 3,750 mg Fe – 9.4 mg

ASTERIX F1

Early hybrid

Planting to harvest: 90 days

Autumn harvest (for storage): 130 days

High yield

Very large, round taproot (1kg)

Root system grows only from the bottom

taproot part

Resistant to bolting and highly tolerant to

leaf spot disease



NEON
Early variety, 137 days from planting
Good yield, 1kg taproots
Good health condition:
no rust
Resistant to bolting
Smooth taproot with no cavities; stays

white even after cooking and drying

Good storability

Industrial processing, direct consumption



ALBIN

Medium early, 140 days from planting Very high yield

Grown for autumn harvest; large, round taproot (1kg)

Resistance to:

Bolting

Medium to high resistance to leaf spot disease

Taproot resistant to cavity formation

Great quality feature: pure white pulp, even

after canning and freezing

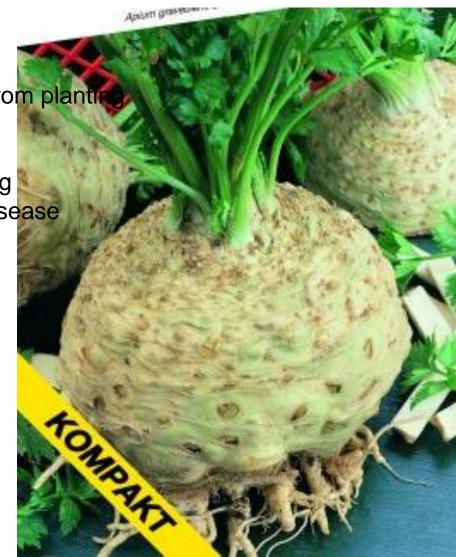
Most of the plant is above the ground; root system grows from bottom part of the plant

Universal use

MAXIM
Late variety, 145 days
Very high yield
Smooth, large taproots (2-3kg), high
content of dry matter
Resistant to bolting
Susceptible to cavity formation and rust
Industrial processing, direct consumption



KOMPAKT
Late variety, 150 days from planting 1kg taproot
Good health condition:
high resistance to bolting
Resistant to leaf spot disease



Not recommended for growing: ORION strong rust MAXIM: highest yield, but withers quickly, inside is full of holes, unfit for storage

BRILLIANT
145 days, no cavities, tends to bolt; good for storage
DIAMANT
150 days, no cavities, good for storage
Foreign varieties: Sowing: 30 g per ha, seedstock price is irrelevant

PARSNIP (Pastinaca sativa) Cultivated plants, came from wild species of ruderal weed

Parsnip green tops (non-aromatic) are not

valued

Robust roots, large diameter

Roots are never rusty, always white

Sweeter root, less aromatic than parsle

Ideal for potato growing region



KAMO

Medium-late variety, 160-180 days
Direct consumption, processing, drying,
long-term storage
Medium-long root, conical, white; rich in
aromatic substances

Flavour: mixture of parsley and carrot

Parsnip does not freeze out in Czech

climate

Roots may be harvested the rollowing

spring



DLOUHÝ BÍLÝ
Late variety, 180-200 days
Direct consumption, processing, drying, long-term storage
Long root, conical, white; rich substances
Flavour: mixture of parsley and carrot Parsnip does not freeze out in Czech climate
Roots may be harvested the following spring



BIELAS

Compared to DLOUHÝ BÍLÝ

earlier variety: 180 days from sowing

Shorter green tops

Smoother and white, more "beetroot-like"

root

Good for long-term storage and industrial

processing

Winters well



Foreign varieties

ARROW – very fast growth

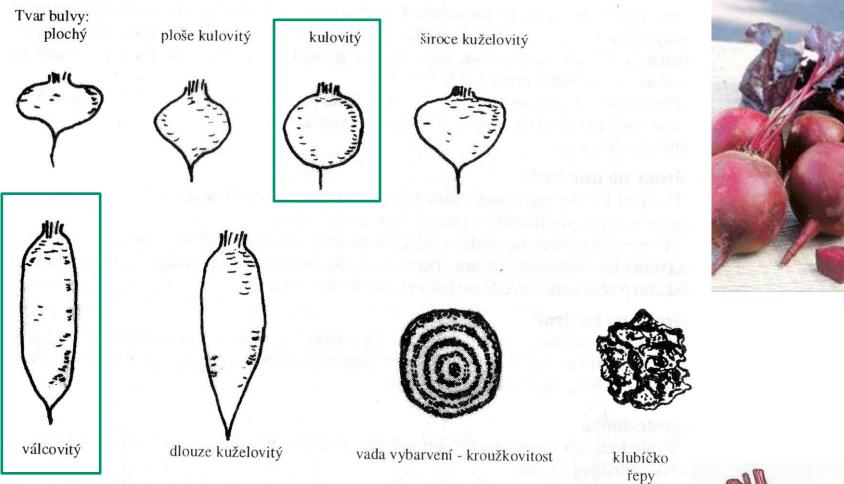
JAVELIN F1 – stable, high yield, smooth root

GARDEN BEET (Beta vulgaris ssp. vulgaris var. conditiva)
Significant canning commodity
Colourant extraction: food colourant in: vitamin B9 – folic acid: 1.5 mg/kg

potassium: 3,000 mg/kg

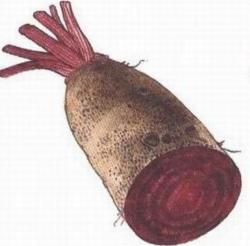
Blood-related diseases, cancer diseases
Beetroot binds radioactive substances and
heavy metals, i.e. detoxicates
Anti-sclerotic and anti-rheumatic effect,
reduces cholesterol levels
Supports appetite





Columnar beetroots are easier for harvest as half of the taproot is above the ground; however, canning plants do not want these, bad transport on conveyers

Defects in colouring: white and red circles which make the taproot less attractive; fully red varieties are favoured



MONOPOLY

Medium early hybrid, 110 days

High yield, consistent and good quality

Round, medium-large, smoot taproots v

dark-red pulp

Genetically monogerm seeds: no nee

thin out the plants

Universal use:

Premature harvest (3-5cm taproots

consumption, canning

Canning



KAHIRA

Very early variety, 110 days

Few leaves

Flat taproots

Direct consumption

For leisure gardeners



MONIKA
Medium early variety, 115 days
Medium-large, round, crimson taproot
Red pulp
Resistant to bolting
Poor pulp fibrousness after cooking

Genetically monogerm seeds: no need to

thin out the plants

Summer and autumn harvest

BETINA
Medium-late variety, 120 days
High yield
Resistant to leaf diseases
Flat round taproot, red to brown-red surface

Intense red pulp, mild flavour, no distinct

light stripes

Universal use:

Premature harvest (3-5cm taproots): direct consumption, canning Canning



BONA
Medium-late variety, 120 days
Very high yield, good quality
Medium-high plant
Round taproot with smooth surface
Intense red pulp, no circles
Sowing:

April to June (harvest of normal-size taproots)

mid-June to mid-July (harvest of small

taproots for canning)

BETINA

Medium-late variety, 120 days

Excellent fine pulp

Medium-high plant

Round taproot, fine pulp, no distinct light

circles

Good resistance to diseases

Sowing:

April to June (harvest of normal-size

taproots)

mid-June to mid-July (harvest of small

taproots for canning)



ČERVENÁ KULATÁ
Medium-late variety, 125 days
Erect leaves, high yield
Good resistance to diseases
Round taproot with wide, lighter circles
which disappear after cooking
Fine pulp: excellent flavour

Premature harvest (3-5cm taproots): direct consumption, canning Canning (autumn, 10cm taproot)

Universal use:

ALEXIS

Late variety, 130 days

Elongated taproot, 21-26cm

Pulp: good colour, no lighter circles

Sowing:

April (direct consumption)

May to June (canning)

Few leaves

Growth spacing: 20 x 30cm



MONORUBRA
Medium-late to late variety, 130 days
Medium-high plant
Columnar taproots
Red pulp, no distinctly lighter circles

Genetically monogerm seeds: no need to thin out the plants
Sowing:

April (direct consumption)
May to June (canning)





Foreign varieties: RED CLOUDE F1 Medium-early, 118 days Round taproot, high yield Dry areas: sandy soils

Not recommended for growing: CYLINDRA

- defective circles in taproo, columnar

EGYPTSKÁ PLOCHÁ – defective circles

RUBÍN - incorrect colours



Grow in soils where N concentrations had been analysed before Beetroot strongly accumulates nitrates Standard: 3,000mg; thermal treatment reduces N concentrations by 10% only Certain beetroots contain more than 10,000mg of NO3 Canning plants require nitrate attestation from a certified laboratory If beetroots overgrow, colourant may be extracted and dried, and later used as a food colourant

RADISH (Raphanus sativus var. major) Spring Summer Autumn

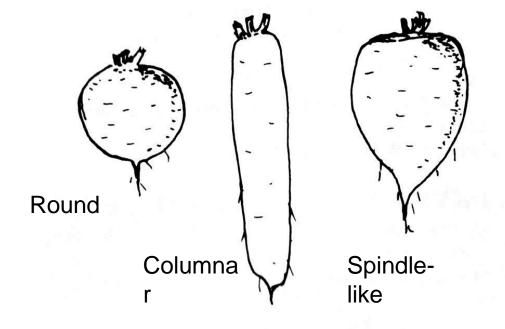
Rich in: K - 3,200 mg/kg S - 380 mg/kg

Diuretic effect Cleanses liver





TAPROOT SHAPES



Spring radish Up to 20cm

Various colours: red, yellow, white

White pulp

Sown in March, harvested in June

Yield: 20-30t

Storability: 14 days

After 14 days, radishes wither

Radishes used to be part of pickled

"čalamáda"



KARMINA

Early radish, vegetation period: 40-45 days

Direct consumption

Taproots: elongated, crimson red surface

White pulp, mild radish-like flavour

Sowing: March through April, harvest: from

the end of May

Recommended spacing: 20 x 8 cm



POLODLOUHÁ BÍLÁ

Early to medium-early variety, 40-50 days

Direct consumption

Taproots: elongated, white surface

White pulp, juicy, mildly spicy flavour



JANTAR

Early to medium-early variety 40

Elongated shape

Yellow plant

Direct consumption

Pulp is not spongy

Sowing: March through April (1) test term)

Recommended spacing: 20 x 6



high yield modeep,

Summer radish

Long (30-35cm), white plants high yield

Soil must be processed 40cm deep,

otherwise the plants branch - not for sale

Sowing: early July; harvest: October

Yield: 60-80 t

Stored by March

Unless infested by radish fly

Root: a little dot, 1mm puncture with red

circle around - radish fly!



Very early summer radish, 55-65 days Direct consumption, short-term storage Round, mildly elliptic white taproot, light

green around a head; no cracking

White pulp

Sowing:

mid-July to mid-August



ALABASTER F1

Hybrid summer radish, 75-85 days Direct consumption, mid-term storage Very long taproot (40-45 cm), columnar shape, white surface White pulp, mild radish flavour

Above-ground plant part does not turn

green

Resistant to bolting

Sowing: mid-July to mid-August

Row spacing: 30 x 15 cm

Grown at ridges (due to taproot length)

ASTOR

Summer radish, 75-85 days

Direct consumption, mid-term storage

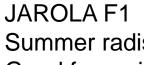
Very long taproot (35-40 cm), columnar

shape

Sowing: mid-July to mid-August

Spacing: 30 x 15 cm





Summer radish, 85 days Good for spring sowing, no bolting Elongated, conical roots with greenish neck, 25-30 cm Mild, juicy pulp Pulp has no tendency to be spongy



Late radish
Black radish

Sown from May to early June

Harvest: October / November

Yield: 30-40 t

Stored until next season (10-12 months)

Excellent characteristics:

Raw juice dissolves kidney stones after

min. 2 months

Juice dissolves a 5-cm stone in a bowl



PANTER
Late early radish, 75 days
Round taproots, 6-10 cm in diameter, fine roots
Long-term storage
Compared to KULATÁ ČERNÁ: More uniform in shape and maturity



KULATÁ ČERNÁ
Late late radish, 90-110 days
Direct consumption and storage, good for juice production
Round to flat round taproot, black surface White pulp
Strong radish flavour
Excellent storability

Commonly until January

In coolers: until new harvest

Sowing: mid-July to mid-August

Recommended spacing: 30 x 10 cm



SMALL RADISH (Raphanus sativus L. var.

radicula Pers.)

Short vegetation period

Shape: round, flat round, spindle-like,

columnar

Colour: red, yellow, white, red-white, purple, tricoloured (not attractive for

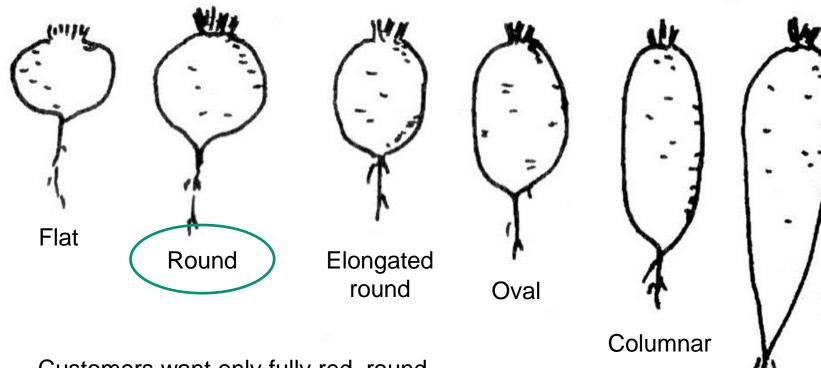
customers)

Varieties:

Early growing: spring, autumn harvest

Summer growing: summer harvest

TAPROOT SHAPES



Spindle-like

Customers want only fully red, round radishes
Number of columnar radishes in a bundle:
6 pcs (according to a standard)
Round radishes in a bundle: 10 pcs (CZK 8 per bundle)
200 radishes per 1m2





Large, round, deep red taproot
Resistant to cracking

POLONEZA

Early variety, 29-33 days
Good for forcing and outdoor growing
Red, round taproots
White tip at the bottom
White, slightly pink, mild pulp
Highly resistant to bolting
Sowing:

Under foil sheet:

February through March

Outdoors:

March through mid-April from end of July to end of August



ESTER

Early variety, 31-34 days Good for forcing and all-year outdoor

growing

roots

High resistance to:

Bolting

Taproot cracking

Pulp is spongy



FORUM

Early variety, 31-34 days

Good for forcing, and spring and autumn

outdoor growing

Columnar, cinnabar taproots with blunt

ends and fine roots

Resistant to cracking

Sowing:

Forcing: end of January

Outdoor growing: March through April, mid-

July through end of August



STELA

Medium-early variety, 32-35 days Good for forcing in unheated premises, and for spring and autumn outdoor growing (freely or covered with unwoven fabric)

Round, red, subtle taproots with fine roots

Taproots do not go spongy

Sowing:

Forcing: from mid-February

Outdoor growing: March





Early variety, 32-35 days

Good for forcing in unheated premises

and early outdoor growing

Double-coloured, red, long columnar taproots with white tip at the bottom

White, compact pulp

Overgrown radishes become spongy

Sowing:

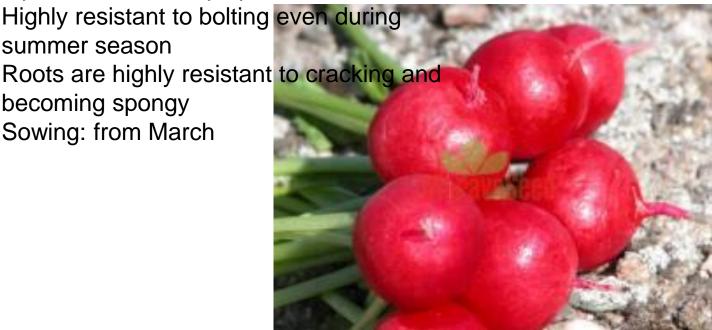
Forcing: end of February

Outdoor growing: March and April



LADA Medium-early variety, 33-37 days Good for ALL-YEAR OUTDOOR GROWING, NO BOLTING Medium to large size Round to flat round, dark red, large taproots with white pulp

summer season Roots are highly resistant to cracking and becoming spongy Sowing: from March





Medium-early variety, 33-37 days Spring, early summer and autumn outdoor





Early variety, 30-34 days

Good for forcing under foil sheets, spring outdoor growing, and also for autumn

harvest

White, medium-large, round taproot with

white pulp

Resistant to cracking

Highly resistant to bolting

Sowing:

Under the foil sheet: in March

Outdoor, no cover: from March till the

of April, and from 20th July till the end of

August



ZLATA

Medium-late variety, 34-38 days Yellow radish with great flavour Good for spring and autumn outdoor growing Round, light yellow taproot with thin peel, and distinctly less spicy pulp Resistant to cracking, bolting, and becoming spongy Sowing:

Under foil sheet: from March Outdoor, no cover: from April till the end of May, and from 20th July till the end of

August

VIOLA
Late variety, 36-40 days
Good for all-year growing
Round, purple, large taproot with white,
fine pulp
Resistant to taproot cracking and pulp

becoming spongy

Highly resistant to bolting

Sowing: from March till the end of August



	Earlines s	Recommended cultivation			Taproot				
Variety		Plastic	Field (summer sowing)	Field (spring sowing)	Shape	Colour	Diamete r (cm)	Green tops	Notes
PRIMARA F1	VVE	++	++	++	Round	5	2-3	Low to medium	Uniform shape of taproots, good for late sowing
VINARA F1	VE	++	++	+	Round	5	2-3	Low	Uniform taproot shape
ТЕКО	VE	++	++	-	Round	5	2-3	Low	No bolting
PRIMA	VE	++	++	+	Round	5	2 - 2.5	Medium	No bolting
KVARTA	VE	+	++	++	Round	7	2.5 – 3.5	Medium	Tetraploid, tolerates low temperatures
SAXA 2	Е	++	++	-	Round	5	2-2.5	Medium	Traditional variety
GRANÁT	Е	++	++	-	Round	7	2-3	Medium	Traditional variety
KVINTA	Е	-	++	++	Round	3	2-3	Medium	Bight red
TERCIA	LE	-	++	+	Round	6	2-3	Medium	No cracking
SEXTA	LL	-	++	++	Round	3	2-3	High	No cracking

		Recommended cultivation			Taproot					
Variety	Variety	Earlines s	Plastic	Field (summer sowing)	Field (spring sowing)	Shape	Colour	Diamete r (cm)	Green tops	Notes
DUO		E	+	++	+	Round	Red- white	2.5 – 3.5	Medium	Red-white taproots
SLAVIA		VE	+	++	-	Short, columnar	Red- white	3.5 - 4	Medium	Red-white, elongated taproots
VIOLA		Е	+	++	+	Elongate d, round	Purple	2-3	High	Attractive purple taproots
BLANK	A	Е	+	++	+	Elongate d, round	White	2-3	High	White round taproot, autumn cultivation
RAMPO	OUCH	LE	-	++	+	Long, columnar	White	6-10	Medium	White, columnar taproots

Czech varieties:

Variety	Veg. Perio d	Earline ss	Ter m	Characteristics
TEKO	28-32	VE	S	No bolting
PRIMA	29-33	VE	S	No bolting or cracking
KVARTA	30-33	VE	S, A	No bolting, low temp.
SLÁVIA	32-34	VE	S	Columnar, red-white
RIA	28-32	VE	S	Light-red, round
POLONEZA	28-33	VE	U, S	Red-white, round, white
ALBENA	30-34			Annual Control of the
SLOVANA	32-35	E	S, A	Columnar, white tip
STELA	32-35	E	S, A	Round, red
GRANÁT	33-35	VE	S	Red, round
KVINTA	32-37	Е	S, A	Round, red
DUO	33-35	E	U	Flat round, red-white
U – univers	sal, sc	w throu	ıgho	ut veget. period

Variety	Veg. Perio d	Earli nes s	Ter m	Cahracteristic
TERCIA	33-37	LE	S, A	No cracking
RAMPOUCH	36-38	LE	S	Long conical, white, 6-10 cm
LADA	33-37	LE	U	Dark red
VIOLA	35-38	LE	U	Large purple taproot
LIDKA	35-39	LE	U	Red, round
SEXTA	35-39	LL	S, A	Flat round, no cracking
ZLATA	36-40	LL	S, A	Yellow, no spongyness or bolting



TURNIP (Brassica rapa var. rapa)
"Harvest-field beetroot", harvested 3 times
per year, matures within 2 months
Grown for: petioles and leaves (spicy)
Taproot: thermal processing, or in salads

Low requirements, tolerates -7°C

Taproot size: 5-8cm Nutritional value

•Ca: 480 mg

•P: 410 mg

•S: 220 mg

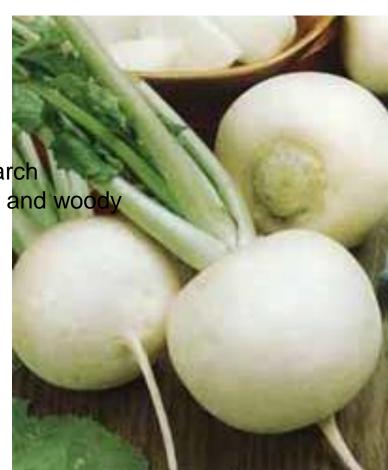
Vitamin C: 170 mg



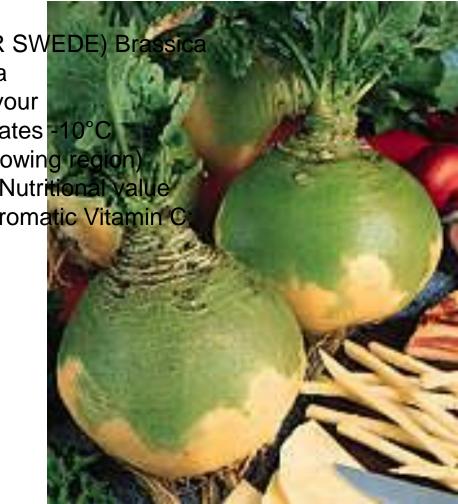
ALBÍNA
Early variety, 70-80 days
High yield
White, sweetish pulp
Direct consumption

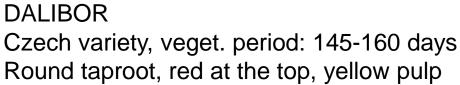
August sowing: stored until March

Resistant to becoming spongy and woody



SWEDISH TURNIP (OR SWEDE) Brassica napus var. napobrassica Taproots have spicy flavour Low requirements, tolerates -10°C Moist regions (potato growing region) Long vegetation period Nutritional value similar to turnip, more aromatic Vitamin C: 340 mg/kg







Foreign varieties
BRORA
Red-blue head
Yellow pulp
Consistent shape MAGRES
Read head
Yellow pulp

BLACK SALSIFY Scorzonera hispanica
Root is too long; if it was shorter (20-25 cm), the plant would be grown much more Vegetable for diabetics: contains inulin (diabetics tolerate this starch)
Cooked, for salads, etc.
Winters, stays in the field until spring
Thin roots, wither quickly

- •LIBOCHOVICKÝ ČR
- •MERES
- •SCHWARZER PETER

