

Tradition Quality Innovation Reliability ...



**Fruit Research Institute, Čačak** is one of the leading research institutions in the field of fruit growing in the Republic of Serbia and the wider region.

The foundations of the Fruit Research Institute were laid back in 1898, by setting up the State Fruit and Grape Nursery in Čačak, following an initiative of the King Aleksandar Obrenović. The Ministry of Agriculture of the People's Republic of Serbia established the Fruit-Growing and Processing Research Station on July 17<sup>th</sup>, 1946, which is considered the official date of the foundation of today's Institute. In the several decades of its existence, the Institute had gone through a number of organisational transformations, until 14<sup>th</sup> September 2006, when a decision of the Serbian Government established it as an independent scientific and research institution under the name of Fruit Research Institute, Čačak.



The principal activity of the Institute is scientific-research work in the field of fruit growing - research and development in biotechnology, supported by the Ministry of Education. Science and Technological Development and Ministry of Agriculture and Environmental Protection of the Republic of Serbia. The scope of the activities performed by the Institute includes the following: genetic research and development of new fruit cultivars; introduction and studies on pomological and biological properties of pome, stone, nut and small fruit cultivars and rootstocks; physiological and agrotechnical research of fruit trees; research of fruit pests and diseases and methods of their suppression: technological research of fruits: production and maintaining of pre-basic and basic certified fruit planting material; DUS tests for the analysis of distinctness, uniformity and stability of fruit rootstocks and cultivars; collection and research of autochthonous and introduced

fruit cultivars for the purpose of establishing of fruit gene bank; transfer and implementation of scientific and technology solutions; expert and health control of the production of fruit planting material.

Forty-one cultivars of various fruit species (out of which fifteen plum cultivars) have been developed at the Institute so far, and four superior hybrids (three plum and one peach hybrid) are to be named and released. The newly-bred cultivars and hybrids are well-known and recognized both at home and abroad. Plum cultivars **Čačanska Rodna**, **Čačanska Lepotica**, **Čačanska Najbolja**, **Valjevka** and **Pozna Plava**, with the exclusive right for propagation, have been included in the assortment of developed European countries. Moreover, owing to its exceptional quality, apple cultivar Čadel and sour cherry cultivar Šumadinka have been protected by licence. British company Meiosis Limited is authorised to represent the Institute in the distribution and licensing rights for propagation of the Čačanska Bestrna blackberry cultivar at the territory of the European Union.

The Institute has facilities essential for its activities: 140.72 ha of land, 4,512 m<sup>2</sup> of work premises and 457 m<sup>2</sup> of the laboratory complex. It owns adequate laboratory equipment, library with the reading room, and a number of supplementary facilities (collection orchards, glasshouses, screen house, meteorological station, etc).

The Institute cooperates with the related institutions, commercial entities and fruit producers in Serbia, as well as with the scientific institutes in 36 countries via the international projects, exchange of experts, scientific information, plant material.

In addition to its scientific activities, the Fruit Research Institute, Čačak also develops its commercial undertakings, investing permanent and intense efforts in implementation of the certification system in the production of planting material, i.e. creating nuclear, pre-basic and basic planting material, according to the certification schemes.

The Institute is the only institution of this kind in Serbia which implements all the steps in the certification system of planting material: from pre-selection of candidate clones, to laboratory analysis of the selected material and it's testing for presence of pathogens and determination of trueness-to-type, to promotion of the obtained material into a corresponding category. The planting material obtained in this manner is kept in a protected environment, with the constant control of its health status, performed by authorised services.

Production of certified and standard planting material of tree-fruits (apple, pear, quince, plum, peach, nectarine, apricot, sweet and sour cherry, walnut), hazelnut, raspberry and blackberry, is performed in adequate isolated sites, with anti-hail protection and modern technological solutions.

Special attention is paid to production of healthy reproduction material: graftwood of temperate fruit species and rootstocks for pome and nut fruits, whether used for the Institute's own need or distributed to other nurseries.

Production and maintenance of nuclear and pre-basic planting material Category: Pre-basic planting material (screen house)

Production and maintenance of basic planting material Cateory: Basic planting material (screen house)



Mother plantings for propagation of certified buds
Category: Certified planting material
(open field)





# **PLUM**

\*Certified and standard planting material (one and two years old nursery trees), grafted on cherry plum seedling



Ripening time: third decade of June

**Fruit**: medium-sized; round and oval in shape; intensive blue colour of skin; the flesh is yellow in colour, with sweet-and-acidic taste

**General evaluation**: suitable for fresh consumption; tolerant to Plum Pox Virus



Ripening time: third decade of June/first decade of July

**Fruit**: medium-sized to large; elongated-oblong in shape, with a purple-blue ground colour with bloom; the flesh is yellow, juicy, of a sweet-and-acidic taste, aromatic

**General evaluation**: suitable for fresh consumption; excellent quality of fruit; tolerant to Plum Pox Virus

# **ČAČANSKA LEPOTICA**

**Ripening time**: third decade of July/first decade of August

**Fruit**: medium-sized; with a prominent suture line; dark-blue colour of skin, with a silver bloom; the flesh is of a greenish-yellow colour, firm, juicy, with a sweet-and-acidic taste

**General evaluation**: suitable for fresh consumption and production of brandy; tolerant to Plum Pox Virus



	PLUM RIPENING TIME																				
Cultivar	Ripening Time (-/+ in days) compared to Stanley cultivar			<b>Jun</b> 0 1		20 2	25			<b>Jul</b> 0 1.		0 2	5	<b>A</b>	<b>ug</b> l		5			<b>ber</b>	
Boranka	-55																				
Čačanska Rana	-50																				
Čačanska Lepotica	-25																				
Timočanka	-15													•							
Čačanska Najbolja	-5																				
Nada	-3																				
Zlatka	-2																				
Mildora	-1																				
Stanley	0																				
Čačanska Rodna	+3																				
Krina	+6																				
Valjevka	+7																				
Čačanski Šećer	+8																				
Požegača	+9																				
Pozna Plava	+10																				



**Ripening time**: end of first and beginning of second decade of August

**Fruit**: large; with an intensely blue colour of skin, abundant bloom and rust in certain years; the flesh is light-yellow to amber, with an excellent sweet-and-acidic taste

**General evaluation**: suitable for fresh consumption; excellent quality of fruit; tolerant to Plum Pox Virus



**Ripening time**: end of second and beginning of third decade of August

**Fruit**: medium-sized to large; dark-blue colour of skin, with abundant bloom; the flesh is yellow, moderately firm and juicy, aromatic, of good quality

**General evaluation**: excellent productivity; suitable for fresh consumption and processing, especially for drying; tolerant to Plum Pox Virus

# **ČAČANSKA NAJBOLJA**

**Ripening time**: end of second and beginning of third decade of August

**Fruit**: cylindrical in shape; very large; dark-blue colour of skin, with abundant silvery bloom; the flesh is yellow, very firm, juicy, of a sweet-and-acidic taste

**General evaluation**: suitable for fresh consumption and freezing; tolerant to Plum Pox Virus



### **ZLATKA**

**Ripening time**: end of second and beginning of third decade of August

**Fruit**: medium-sized; oblong in shape; yellow colour of skin; the flesh is yellow, juicy, of a good quality

**General evaluation**: suitable for different types of processing and primarily for compote production; resistant to Plum Pox Virus





**Ripening time**: end of second and beginning of third decade of August

**Fruit**: small to medium-sized; oval shaped to oblong; red colour of skin, with bloom; the flesh is of a golden-yellow colour, of a pronounced sweet taste

**General evaluation**: primarily intended for drying; resistant to Plum Pox Virus; susceptible to fruit rot



**Ripening time**: third decade of August/first decade of September

**Fruit**: small to medium-sized; oblong in shape; with blue colour of skin and abundant bloom; the flesh is yellow, firm, very juicy, of a sweet-and-acidic taste

**General evaluation**: excellent yield potential; suitable for drying, various types of processing and fresh consumption; medium susceptibility to Plum Pox Virus

### **STANLEY**

Ripening time: third decade of August

**Fruit**: medium-sized to large; elliptical in shape, dark blue colour of skin, with abundant bloom; the flesh is of a greenish-yellow colour, juicy and of a sweet taste

**General evaluation**: suitable for different types of processing and for fresh consumption; tolerant to Plum Pox Virus



# **KRINA**

**Ripening time**: third decade of August/first decade of September

**Fruit**: small to medium-sized; oblong in shape; with a purple-blue colour of skin; the flesh is yellow, firm and juicy, of a sweet taste

**General evaluation**: suitable primarily for drying, but also for other types of processing, as well as for fresh consumption; tolerant to Plum Pox Virus





**Ripening time**: third decade of August/first decade of September

**Fruit**: medium-sized; oblong in shape, narrowing towards the stalk; blue colour of skin, with abundant bloom; the flesh is yellow, firm and juicy, of an excellent sweet-and-acidic taste

**General evaluation**: suitable for drying, production of brandy and fresh consumption; tolerant to Plum Pox Virus



**Ripening time**: third decade of August/first decade of September

**Fruit**: small; oblong in shape; dark-blue colour of skin, with abundant bloom; the flesh is golden-yellow, firm and juicy, of a sweet-and-acidic taste and outstanding quality

**General evaluation**: suitable for different types of processing and fresh consumption; susceptible to Plum Pox Virus

# **ČAČANSKI ŠEĆER**

**Ripening time**: third decade of August/first decade of September

**Fruit**: medium-sized; oblong in shape; purple-blue colour of skin, with silvery bloom; the flesh is yellow, firm and juicy, of a sweet and pleasant taste

**General evaluation**: primarily intended for drying; slightly susceptible to Plum Pox Virus



# **POZNA PLAVA**

**Ripening time**: third decade of August/first decade of September

**Fruit**: medium-sized; oblong in shape; dark-blue colour of skin, with abundant bloom; the flesh is yellow, firm, juicy, of a sweet-and-acidic taste

**General evaluation**: suitable for fresh consumption and different types of processing (drying, jams, compotes, brandy, freezing, etc.); tolerant to Plum Pox Virus



# **SWEET CHERRY**

\*Standard planting material (one year old nursery trees), grafted on wild cherry seedling



# **BIGGAREAU HATIV DE BURLAT**

Ripening time: third decade of May

**Fruit**: medium-sized; oval and heart-shaped; bordeaux-red colour of skin; the flesh is juicy, crisp, of a sweet-and-acidic taste

**Note**: self-incompatible cultivar (incompatibility group XVI)

# **SUNBURST**

**Ripening time**: the end of first and beginning of second decade of June

**Fruit**: large to very large; of blunt heart-shape, mahogany-red colour of skin; the stalk is medium long; the flesh is firm, of a high quality and excellent taste

Note: self-compatible cultivar



	SWEET CHERRY	RI	ΙPΙ	ΕN	IN	IG	TI	M	E				
Cultivar	Ripening Time (-/+ in days) compared to Burlat cultivar			Ma	У				ا	un	e		
	Burlat cultivar		5 1	) 1:	5 2	0 2	5	:	5 10	) 1:	5 2	0 2	5
Burlat	0												
Summit	+11												
Sunburst	+12								(				
Kordia	+15												
Regina	+24												



**Ripening time**: the end of first and beginning of second decade of June

**Fruit**: very large; heart-shaped, of an intensely red colour of skin; stalk is medium to long; the flesh is of a light-red colour, medium firm, juicy, sweet, aromatic, of a very high quality

**Note**: self-incompatible cultivar (incompatibility group I)



Ripening time: second decade of June

**Fruit**: large; elongated, heart-shaped; skin colour is mahogany red; stalk is very long; the flesh is juicy, crispy and of an outstanding taste and aroma

**Note**: self-incompatible cultivar (incompatibility group VI)

# **REGINA**

Ripening time: third decade of June

**Fruit**: large; round and heart-shaped in form; dark-red colour of skin; stalk is medium long; the flesh is red, firm and crispy, juicy, aromatic, of a sweet-and-acidic taste and high quality

**Note**: self-incompatible cultivar (incompatibility group II)



# **SOUR CHERRY**

\*Standard planting material (one year old nursery trees), of grafted on wild cherry and mahaleb seedlings



Ripening time: second decade of June

**Fruit**: large; oval in shape; ruby red colour of skin and fruit juice; long stalk, which is easily separated with no leakage of juice; small stone; the flesh is of a sweetand-acidic taste and excellent quality

**General evaluation**: medium vigour, with typical bended branches; excellent yield potential; marked as resistant to Blumeriella jaapii (Rehm) v. Arx

# **ÉRDI BÖTERMÖ**

Ripening time: end of second decade of June

**Fruit**: large; round in shape; dark-red colour of skin; the flesh is of medium firmness, juicy, of a sweet-and-acidic taste, pleasant aroma and high quality

Note: self-compatible cultivar



SOU	R CHERRY RIP	PENING TIME
Cultivar	Ripening Time (-/+ in days) compared to	June July
	Šumadinka cultivar	5 10 15 20 25 5 10 15 20 25
Sofija	-19	
Érdi Bötermö	-16	
Nevena	-12	
Iskra	-9	
Üjfehériói Fürtös	-8	
Šumadinka	0	



Ripening time: third decade of June

**Fruit**: medium-sized to large; of a blunt heart-shaped to oval-shaped form; dark-red colour of skin and fruit juice; the stalk is short to medium long; the flesh is of a very good quality

**General evaluation**: moderately vigorous; abundant and regular yield; tolerant to Blumeriella jaapii (Rehm) v. Arx

# ÜJFEHÉRTÓI FÜRTÖS

Ripening time: third decade of June

**Fruit**: very large; round-flattened in shape; dark-red colour of skin and fruit juice; the flesh is of a medium firmness, juicy, of a sweet-and-acidic taste, pleasant aroma and excellent quality

Note: requires presence of pollinisers

# **ISKRA**

Ripening time: third decade of June

**Fruit**: large to very large; of a blunt heart-shaped to oval-shaped form; light-red colour of skin and fruit juice; medium long stalk; small stone; excellent quality of mesocarp

**General evaluation**: moderately vigorous; abundant and regular yield; tolerant to Blumeriella jaapii (Rehm) v. Arx



# **ŠUMADINKA**

Ripening time: first decade of July

**Fruit**: medium-sized to large; round in shape; dark red colour of skin; the flesh is dark-red, juicy, of mildly acidic taste

**General evaluation**: excellent yield potential; suitable for different types of processing; a self-compatible cultivar



# PEACH AND NECTARINE

\*Standard planting material (one year old nursery trees), grafted on wild peach seedling



Ripening time: third decade of June/first decade of July

**Fruit**: medium-sized; oval in shape; orange-yellow ground colour, covered up to 85% with red overcolour; the flesh is yellow, juicy and sweet-acid

# **REDHAVEN**

Ripening time: second decade of July

**Fruit**: medium-sized; oval in shape; orange-yellow ground colour, with up to 80% red overblush; the flesh is yellow, firm and juicy, of a sweet-and-acidic taste and excellent quality



	PEACH AND NECTARINE RIPENING TIME																				
Cultivar	Ripening Time (-/+ in days) compared to Redhaven cultivar		<b>June</b> 5 10 15 20 25		5		<b>Jul</b> :		0 2	5	<b>A</b>	<b>ug</b> l		5			<b>per</b>				
Springcrest	-24																				
Redhaven	0																				
Glohaven	+13																				
Fantasia	+25																				
Cresthaven	+27																				
Caldesi	+45																				



**Ripening time**: end of third decade of July/first decade of August

**Fruit**: very large; round in shape; yellow ground colour, with 50–70% red overblush; the flesh is of an orange-yellow colour, firm and juicy, of a very high quality



Ripening time: second decade of August

**Fruit**: large; round in shape; yellow ground colour, with 70% red overblush; the flesh is yellow, reddish around the stone

### **FANTASIA**

**Ripening time**: end of first and beginning of second decade of August

**Fruit**: medium-sized; yellow-orange ground colour, with 70% red overblush; the flesh is yellow-orange, reddish around the stone, of a sweet-and-acidic taste



# **CALDESI**

**Ripening time**: third decade of August /first decade of September

**Fruit**: large; oval in shape; yellow ground colour, with red overblush; the flesh is yellow, firm and juicy



# **APRICOT**

\*Standard planting material - one year old nursery trees (grafted on plum cherry seedling) and two years old nursery trees (high-grafted on plum cherry seedling, with Čačanska Lepotica as the interstem)



# (MAGYAR KAJSZI)

Ripening time: first decade of July

Fruit: medium to large; rounded and heart-shaped; the ground colour is orange, with a bright-red overcolour and dark-red spots on the sunny side; the flesh is orange, of a medium firmness, juicy, sweet and mildly acidic, with a pleasant aroma

# **NOVOSADSKA 6**

Ripening time: first decade odf July

**Fruit**: medium-sized to large; roundish shape, slightly flattened; light-orange ground colour, with redblush on the sunny side; the flesh is light-orange, firm, juicy, very tasty



APRICOT R	IPENING TIME	
Cultivar	Ripening Time (-/+ in days) compared to	July
	Hungarian best cultivar	5 10 15 20 25
Hungarian Best (Magyar Kajszi)	0	
Novosadska 4	+2	
Novosadska 6	+4	
Novosadska Rodna	+5	
Roxana	+7	



Ripening time: first decade of July

**Fruit**: large to very large; elongated-oblong in shape; orange ground colour, with an abundant red overcolour; the flesh is orange, juicy, acid, very tasty



**Ripening time**: end of first and beginning of second decade of July

**Fruit**: medium-sized to large; elongated-oblong in shape, slightly flattened; light-orange ground colour, with redblush; the flesh is orange, aromatic, very tasty

# **ROXANA**

**Ripening time**: end of first and beginning of second decade of July

**Fruit**: large to very large; oval in shape; orange ground colour, with intense red overblush on 40–70% of the fruit; the flesh is orange, of a medium firmness, medium juiciness, and of a sweet-and-acidic taste



# **APPLE**

\*Certified and standard planting material (one and two years old nursery trees), grafted on M9, M26 and MM106 rootstocks



Ripening time: third decade of August

**Fruit**: medium large; conic in shape, of a cream-yellow ground colour of skin, with dark-red overcolour covering the entire surface of the fruit; the flesh is yellow, firm, juicy, aromatic and of a very good quality



Ripening time: third decade of September

**Fruit**: medium-sized, with golden-yellow colour of skin and russeting less expressed than in Golden Delicious; the flesh is of yellow-green colour and fine structure, firm, crispy and juicy

# **RED JONAPRINCE**

**Ripening time**: end of first and beginning of second decade of September

**Fruit**: large to very large, with shiny and dark-red skin; the flesh is of a cream-green colour, fine structure, firm and crispy, juicy and of a sweet and mildly acidic taste



	APPL	E I	RII	PE	NI	N	<b>G</b> 1	ΜE							
Cultivar	Ripening Time (-/+ in days) compared to Golden Reinders cultivar		<b>August</b> 5 10 15 20 25				<b>nb</b>	5	5	 	5 2	2: 0 2:	5		
Gala Schniga	-25														
Red Jonaprince	-7														
Golden Reinders	0								•						
Čadel	+10									•					
Red Chief	+13														
Idared	+18										C				
Granny Smith	+30														



Ripening time: third decade of September

**Fruit**: medium-sized to large, with yellow-green ground colour, overcoloured with bright red stripes; the flesh is light-yellow in colour, mildly acidic and aromatic

# **IDARED**

Ripening time: first decade of October

**Fruit**: large; oval and flattened in shape; pale-green colour of skin, mostly covered in red overcolour; the flesh is whitish, firm, juicy, of a mildly acidic taste





**Ripening time**: third decade of September/first decade of October

**Fruit**: medium-sized; elongated; with yellow ground colour overcoloured with reddish stripes, turning to dark-red in full maturity; the flesh is greenish-white in colour, juicy, firm, crispy and with an excellent taste and aroma

# **GRANNY SMITH**

Ripening time: second decade of October

**Fruit**: medium-sized; flattened-conic in shape; green colour of the skin, with pronounced large white lenticels; the flesh is white and juicy, of an acidic taste



\*Standard planting material (one year old nursery trees), grafted on pear seedling and quince Ba 29



# **JULIJANA**

Ripening time: first decade of July

**Fruit**: small to medium-sized; regular pear-shaped form; yellow ground colour, with 30–50% bright red over-colour; the flesh is of a cream-white colour, juicy, of sweet harmonious taste, discreet aroma and very good quality

# **ANĐELIJA**

Ripening time: first decade of August

**Fruit**: medium-sized to large; pear-shaped; attractive, dark-red colour of skin, turning into a crimson red colour in full maturity; the flesh is of cream-white colour, juicy, of outstanding taste and supreme quality



MACO		PEAR RIPENING TIME																				
- Indicate State S	Cultivar	Ripening Time (-/+ in days) compared to Williams' Bon Chretien cultivar			<b>Jul</b> 0 1		0 2	5			_	<b>ust</b> 5 2		5		<b>ote</b>			0	<b>ctc</b>		5
	Julijana	-46																				
	Anđelija	-15																				
	Williams' Bon Chretien	0																				
9	Santa Maria	+2																				
STORY	Abate Fetel	+28																				
-	Cure	+43																9				



Ripening time: third decade of August

**Fruit**: medium-sized to large; pear-shaped; straw-yellow colour of skin, with reddish glow on the sunny side; the flesh is of a yellowish colour, juicy, mellow, of sweet-and-sour taste and excellent refreshing aroma

### **SANTA MARIA**

Ripening time: third decade of August

**Fruit**: medium-sized to large; pear-shaped; lemonish-yellow colour of skin, covered with reddish glow on the sunny side; the flesh is medium-juicy, with sweet-and-sour taste



# ABATE FETEL

Ripening time: second decade of September

**Fruit**: medium-sized to large; conic-elongated; greenish-yellow colour of skin, with rusty spots; the flesh is juicy, medium-mellow and of sweet-and-sour taste

# **CURE**

Ripening time: first decade of October

**Fruit**: of variable size; elongated; pear-shaped, with the skin-thickening line along the fruit; yellow-green colour of skin, with reddish overcolour; the flesh is medium-mellow, with stone cells, juicy and sweet, with no pronounced aroma



\*Standard planting material (one and two years old nursery trees), grafted on quince Ba 29



Ripening time: end of first and beginning of second decade of October

Fruit: large; oval-shaped; lemon-yellow colour of skin; the flesh is thick, firm, compact, of an acidic taste and pleasant aroma

**General evaluation**: suitable for all types of processing



Ripening time: third decade of September/first decade of October

**Fruit**: very large; of an irregular, elongated pear shape; the skin is of a straw-yellow colour; the flesh is yellow, semifirm and of a mild, sweet-acidic taste and aroma

**General evaluation**: good polliniser for the most important quince cultivars

# **ASENICA**

**Ripening time**: end of first and beginning of second decade of October

Fruit: large to very large; blunt and pear-shaped, of a greenish-yellow skin colour; the flesh is yellowish, fragile and of an outstanding good quality, with a moderately acidic taste and pleasant aroma, with no stone cells

**General evaluation**: suitable for all types of processing, as well as for fresh consumption



# TRIUMF

Ripening time: end of second and beginning of third decade of October

**Fruit**: large, of a blunt and pear-shaped form; the skin is thin and smooth, of a greenish-yellow colour; the flesh is light-yellow, fragile, moderately juicy and of an acidic taste, high quality and pleasant aroma and with no stone cells

**General evaluation**: suitable for all types of processing, as well as for fresh consumption



# RASPBERRY

\*Standard planting material



**Ripening time**: beginning of ripening occurs in second decade of June

**Fruit**: medium-sized to large, of a rounded-conic shape; dark-red in colour; the flesh is of a sweet-and-acidic taste and of a pleasant aroma

**General evaluation**: suitable for mechanical harvesting

## **MEEKER**

**Ripening time**: beginning of ripening occurs in the third decade of June

**Fruit**: medium-sized to large, of an intense red colour; the flesh is firm, of a good quality and pleasant aroma

**General evaluation**: suitable for mechanical harvesting



# BLACKBERRY

\*Standard planting material

	<b>QUINCE RIF</b>	E	NI	NC	i T	IM	E					
Cultivar	Ripening Time (-/+ in days)		Se	pte	ml	er		O	cto	obe	er	
	compared to Leskovačka cultivar		5 10	0 1	5 2	25		5 1	0 1	5 2	0 2	5
Vranjska	-12						•					
Asenica	-2								5			
Leskovačka	0											
Triumf	+8									(		

# **ČAČANSKA BESTRNA**

**Ripening time**: beginning of ripening occurs in the third decade of July

**Fruit**: very large; elongated cylindrical in shape; shiny black colour of skin; the flesh is of a sweet taste, with a pronounced aroma



# WALNUT

\*Standard planting material (two years nursery trees), grafted on walnut seedling



**Ripening time**: third decade of September

**Fruit**: large; conic in shape; kernel percentage is 52%

W	ALNUT RIPE	NI	N	G i	Π	MI						
Cultivar	Ripening Time (-/+ in days)		Se	pte	ml	oer		0	cto	be	er	
	compared to Šeinovo cultivar		5 10	0 1:	5 2	0 2	5	5 10	) 15	5 20	) 2	5
Rasna	-17											
Šeinovo	0											
Geinsenheim 139	+3											

# **ŠEINOVO**

Ripening time: second decade of October

**Fruit**: medium-sized; attractive appearance; thin shell; kernel percentage is 52%



# **GEINSENHEIM 139**

**Ripening time**: second decade of October

**Fruit**: medium-sized; round in shape; smooth shell; good-quality kernel; kernel percentage is 48%



# \*Standard planting material HAZELNUT



# **TONDA GENTILE DELLE LANGHE**

Ripening time: second decade of August **Fruit**: medium large; round in shape; the kernel percentage is 47%



Ripening time: second decade of August **Fruit**: medium-sized; round in shape; the kernel percentage is 45%

# **TONDA DI GIFFONI**

Ripening time: third decade of August Fruit: medium large; round in shape; the kernel percentage is 45-47%



HAZELNUT R	RIPENING TIM	ΛE
Cultivar	Ripening Time (-/+ in days) compared to Tonda Gentile	August
	Romana cultivar	5 10 15 20 25
Tonda Gentile dele Langhe	-17	
Tonda Gentile Romana	0	
Tonda di Giffoni	+3	

