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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

SOUR CHERRY; DUKE CHERRY

UPOV Code(s): PRUNU_CSD; PRUNU GON

*Prunus cerasu*s L.; *Prunus ×gondouinii* (Poit. & Turpin) Rehdeı

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Hungary to be considered by the Technical Working Party for Fruit Crops at its fifty-fourth session, to be held in Nîmes, France, from 2023-07-03 to 2023-07-07

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
Prunus cerasus L., Cerasus vulgaris Mill.	Sour cherry, Tart cherry, Morello	Cerisier acide	Sauerkirsche	Cerezo ácido, Guindo
Prunus ×gondouinii (Poit. & Turpin) Rehder, P. avium × P. cerasus	Duke cherry	Griotte		Cerezo Duke

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

^{*} These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Prunus cerasus* L. and *Prunus ×gondouinii* (Poit. & Turpin) Rehder and *P. avium L. x P. cerasus* L.

2. Material Required

- 2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.
- 2.2 The material is to be supplied in the form of The material is to be supplied in the form of one-year-old grafts, budsticks or dormant shoots for grafting.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

The minimum quantity of plant material, to be supplied by the applicant, should be:

5 trees or 3 budsticks or 5 dormant shoots for grafting, sufficient to propagate 5 trees.

The rootstock to be used is specified by the competent authority.

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

- 3.1 Number of Growing Cycles
- 3.1.1 The minimum duration of tests should normally be two independent growing cycles.
- 3.1.2 The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles.
- 3.1.3 In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.
- 3.1.4 The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds.
- 3.1.5 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

- 3.3 Conditions for Conducting the Examination
- 3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.
- 3.3.2 The optimum stage of development for the assessment of each characteristic is indicated by a number in the Table of Characteristics. The stages of development denoted by each number are described in Chapter 8.

3.4 Test Design

Each test should be designed to result in a total of at least 5 trees.

3.5 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 5 plants or parts of plants taken from each of 5 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts

of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

- 4.2 Uniformity
- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 These Test Guidelines have been developed for the examination of vegetatively propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.3 Stability
- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.
- 5. Grouping of Varieties and Organization of the Growing Trial
- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Fruit: size (characteristic 27)
 - (b) Fruit: color of skin (characteristic 36)
 - (c) Fruit: color of flesh (characteristic 37)
 - (d) Fruit: color of juice (characteristic 38)
 - (e) Time of beginning of flowering (characteristic 46)
 - (f) Time of beginning of fruit ripening (characteristic 47)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".
- 6. <u>Introduction to the Table of Characteristics</u>
- 6.1 Categories of Characteristics
- 6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined

for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

- 6.2 States of Expression and Corresponding Notes
- 6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.
- 6.2.2 All relevant states of expression are presented in the characteristic.
- 6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".
- 6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudoqualitative) is provided in the General Introduction.

6.4 Example Varieties

> Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 Legend

	English		françai	is	deutsch	español	Example Varieties Exemples Be ejemplo	Note
1 2	3	3 4 5 6		7				
	Name chara in Eng	cteristics	Nom o carac frança	tère en	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states of expression		types		Ausprägungsstufen			*

1 Characteristic number

2 (*) Asterisked characteristic - see Chapter 6.1.2

3 Type of expression

> Qualitative characteristic - see Chapter 6.3 QL QN Quantitative characteristic - see Chapter 6.3 PQ Pseudo-qualitative characteristic – see Chapter 6.3

Method of observation (and type of plot, if applicable) 4

MG, MS, VG, VS - see Chapter 4.1.5

5 See Explanations on the Table of Characteristics in Chapter 8.1 (+)

6 Not applicable

7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8.2

7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	QN	VG	(+)	(a)		1		
	Tree:	vigor						
	very v	veak					Demesova, Kelleriis 14, Samor	1
	very v	veak to weak						2
	weak						Gerema, Nana	3
	weak	to medium						4
	mediu	ım					Karneol, Montmorency	5
	mediu	ım to strong						6
	strong]					Kántorjánosi 3, Pándy Bb. 119	7
	strong	to very strong						8
	very s	trong					Érdi nagygyümölcsű, Piramis	9
2. (*)	PQ	VG	(+)	(a)				
	Tree:	habit						
	uprigh	nt					Oblachinska, Piramis, Ţarina	1
	semi-	upright					Safir, Újfehértói fürtös	2
	sprea	ding					Karneol, Montmorency, Samor	3
	droop	ing					Cigánymeggy 7	4
3. (*)	QN	VG	(+)	(a)				
	Tree:	branching						
	very v							1
		veak to weak					Piramis	2
	weak						Meteor korai, Samor	3
		to medium						4
	mediu						Morsam, Pándy Bb. 119	5
	mediu	ım to strong						6
	strong]					Cigánymeggy 7, Montmorency, Safir	7
	strong	to very strong					Erika	8
	very s	trong					Bianchi di Offagna	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4.	PQ	VG	(+)	(a)		1		
	Tree: b	oud distribution						
	along e	entire branch					Coralin, Maliga emléke, Piramis	1
		n middle and part of branch					Érdi jubileum, Meteor, Morava	2
	only on branch	n distal part of					Cigánymeggy 7, Samor, Schattenmorelle	3
5.	QN	VG						
	anthoo	shoot: cyanin tion of apex g rapid growth)						
	absent	or very weak					Cigánymeggy 59, Meteor	1
	very we	eak to weak						2
	weak						Kelleriis 14, Montmorency	3
	weak to	o medium						4
	mediur	m					Érdi bőtermő, Meteor korai, Schattenmorelle	5
		n to strong						6
	strong						Érdi jubileum, Fanal	7
	strong	to very strong						8
	very st	rong					Érdi nagygyümölcsű, Topas	9
6.	QN	VG						1
	pubes	shoot: cence of apex g rapid growth)						
	very we	eak	•					1
	very we	eak to weak						2
	weak						Cigánymeggy 7, Csengődi, Karneol	3
	weak to	o medium						4
	mediur	n					Favorit, Morava	5
	mediur	n to strong						6
	strong						Cigánymeggy 59	7
	strong	to very strong	<u> </u>					8
	very st	rong						9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	QN	VG	(+)	(a)				-
	One-	year-old shoot: h of internode						
	very	short					Erika	1
	very	short to short					Nana, Samor	2
	short						Meteor, Schattenmorelle	3
	short	to medium					Fanal	4
	medi						Cigánymeggy 7, Petri	5
	medi	um to long					Maliga emléke	6
	long					-	Érdi bőtermő	7
	long t	to very long					Érdi jubileum, Érdi nagygyümölcsű	8
	very I	ong					Érdi ipari	9
8.	QN	VG		(a)				1
	One-	year-old shoot: per of lenticels						
	very f	ew ew					Cigánymeggy 59	1
	few						Bianchi di Offagna, Cigánymeggy 7	2
	medi	um					Pándy Bb 119, Petri	3
	many	,					Érdi nagygyümölcsű	4
	very r	many					Piramis	5
9.	QN	VG		(b)				-
•	Leaf	blade: length						
	very	short					Oblachinska	1
	very	short to short					Cigánymeggy 59	2
	short						Cigánymeggy C. 404, Meteor	3
	short	to medium					Fanal	4
	medi	um					Kántorjánosi 3, Karneol, Kelleriis 16	5
	medi	um to long					Pándy 279	6
	long						Érdi bőtermő, Favorit, Maliga emléke	7
	long t	to very long					Csengődi	8
	very I	ong					Márta	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
10.	QN	VG	(b)				1
	Leaf b	olade: width					
	very n	arrow				Oblachinska	1
	very n	arrow to narrow				Cigánymeggy 7	2
	narrov	v				Montmorency, Schattenmorelle	3
	narrov	v to medium				Érdi ipari	4
	mediu	ım				Karneol, Kelleriis 16, Pándy Bb. 119	5
	mediu	ım to broad				Éva	6
	broad					Maliga emléke	7
	broad	to very broad				Érdi nagygyümölcsű	8
	very b	road				Márta	9
11. (*)	QN	VG	(b)				
		plade: ratio n/width					
	very s	mall					1
	very s	mall to small				Kelleriis 16	2
	small					Cigánymeggy 7	3
	small	to medium				Samor	4
	mediu	ım				Karneol, Maliga emléke	5
	Imediu	um to large				Pándy 279	6
	large					Meteor korai, Oblachinska	7
	large t	to very large				Favorit	8
	very la	arge				Montmorency	9
12.	QN	VG	(b)				
	Leaf k green side	plade: intensity of color of upper					
	very li	ght					1
	light					Csengődi	2
	mediu	ım				Cigánymeggy 7, Éva	3
	dark					Érdi nagygyümölcsű, Pándy Bb 119	4
	very d	lark				Fanal, Favorit	5

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	QN	VG	(b)				
	Leaf b	olade: glossiness					
		it or weak				Csengődi	1
	very w	veak to weak					2
	weak					Schattenmorelle	3
	weak	to medium					4
	mediu	ım				Debreceni bőtermő	5
		ım to strong					6
	strong	3				Karneol, Pándy 279	7
	strong	to very strong					8
	very s	trong				Maliga emléke	9
14. (*)	QN	MG/VG	(b)				
	Leaf:	length of petiole					
	very s	hort					1
	very s	hort to short				Oblachinska	2
	short					Karneol, Kelleriis 16	3
	short	to medium				Pándy 279	4
	mediu	ım				Maliga emléke, Montmorency, Újfehértói fürtös	5
	mediu	ım to long				Piramis	6
	long					Favorit	7
	long to	o very long				Márta	8
	very lo	ong					9
15.	QN	VG	(b)				
	antho	intensitiy of ocyanin ation of petiole er side)					
	weak					Gerema, Oblachinska	3
	mediu	ım				Favorit	5
	strong	3				Fanal, Montmorency, Safir	7

·		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.	QN	MG/VG		(b)				
	Leaf: blade petiol	ratio length of / length of le						
	very s	mall						1
	very s	mall to small					Olibel	2
	small						Pipacs 1	3
	small	to medium					Favorit	4
	mediu	ım					Montmorency	5
	mediu	ım to large					Érdi bőtermő, Erika	6
	large						Karneol, Kelleriis 16, Meteor	7
	large	to very large					Debreceni bőtermő, Pándy 279	8
	very la	arge					Nana, Petri	9
17. (*)	QL	VG		(b)				
	Leaf: necta	presence of ries						
	abser	nt					North Star, Oblachinska	1
	prese	nt					Favorit, Piramis	9
18.	QN	VG		(c)				
	Necta	ries: position						
	at bas	se of leaf only					Karneol, Meteor	1
		at base of leaf and on petiole					Favorit, Montmorency	2
	on pe	tiole only					Kántorjánosi 3, Pipacs 1, Ţarina	3
19.	PQ	VG	(+)	(c)				
	Necta	ries: color						
	green	ish yellow				-	Coralin, Samor	1
	orang	e yellow					Kántorjánosi 3, Topas	2
	light re	ed					Cigánymeggy 7, Érdi bőtermő, Oblachinska	3
	dark r	ed					Meteor, Nana	4
	brown	nish					Karneol, Morina	5

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20.	QN	VG	(+)	(d)			•	•
	Stipul	e: attitude		·				
	leaning	g away from shoot					Kelleriis 16, Meteor, Samor	1
	adpres	ssed to shoot					Favorit, Pándy 279	2
	leaning	g across shoot					Csengődi, Pipacs 1, Piramis	3
21.	QN	VG		(d)				
<u> </u>	Stipul	e: size		<u> </u>				
	very si							1
	small	IIIaii					Favorit, Schattenmorelle,	2
	Jillali						Újfehértói fürtös	
	mediu	m					Debreceni bőtermő, Maliga emléke, Samor	3
	large						Meteor korai, Morsam	4
	very la	ırge						5
22.	QN	VG	(+)	(d)			·	
	Stipul margi	e: extensions of ns						
	absent	t or weak					Oblachinska, Schattenmorelle, Újfehértói fürtös	1
	mediu	m					Piramis, Samor	2
	strong						Csengődi, Kelleriis 16, Meteor korai	3
23.	QN	MG/VG	(+)	(e)				
	Flowe	r: diameter						
	very si	 mall					Oblachinska	1
	very si	mall to small					Samor	2
	small						Bianchi di Offagna, Erika	3
	small t	o medium					Fanal	4
	mediu	m					Cigánymeggy 7, Montmorency	5
	mediu	m to large	ļ				Kelleriis 16, Petri	6
	large		···········				Érdi jubileum, Pándy Bb. 119	7
	large t	o vary large					Márta	8
	very la	ırge					Csengődi	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.	QN	VG	(+)	(e)			·	
	Flowe of pet	er: arrangement als						
	free						Kelleriis 16, Újfehértói fürtös	1
	interm	ediate					Érdi jubileum, Montmorency, Schattenmorelle	2
	overla	pping					Favorit, Meteor korai, Oblachinska	3
25.	PQ	VG	(+)	(e)				
	Flowe	r: shape of petal						
	circula						Favorit, Meteor, Oblachinska	1
	mediu	m obovate					Kelleriis 16, Pipacs 1, Safir	2
	broad	obovate					Érdi bőtermő, Korai pipacs, Schattenmorelle	3
26.	PQ	VG	(+)	(e)			•	
-	Flowe	r: arrangement		•				
	solitar	y					Cerella, Nabella	1
	double)					Safir	2
	in clus	ters					Újfehértói fürtös	3
	irregul	ar					Schattenmorelle	4
27. (*)	QN	MG/VG		(f)			•	
	Fruit:	size						
	very s						Oblachinska	1
	very s	mall to small	†				Erika	2
	small		*				Cigánymeggy 7, Cigánymeggy C. 404	3
	small	to medium	<u> </u>				Korai pipacs	4
	mediu	m					Érdi bőtermő, Schattenmorelle	5
	mediu	m to large					Favorit, Kelleriis 16	6
	large						Éva, Karneol, Morsam	7
	large t	o very large					Pándy Bb 119	8
	very la	arge					Petri, Piramis, Safir	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28. (*)	PQ	VG	(+)	(f)				
	Fruit: view	shape in ventral						
	renifo	rm					Érdi jubileum, Pándy Bb. 119	1
	oblate	;					Montmorency, Morina	2
	circula	ar					Maliga emléke, Nana	3
	elliptio	>					Csengődi, Karneol, Morsam	4
	corda	te					Érdi bíbor	5
29.	QN	VG	(+)	(f)				
	Fruit:	pistil end						
	pointe	ed					Favorit, Morsam	1
	flat						Korai pipacs, Samor	2
	depre	ssed					Cigánymeggy C. 404, Montmorency, Schattenmorelle	3
30. (*)	QN	MG/VG		(f)				
	Fruit:	length of stalk		·				
	very s	short						1
	very s	short to short					Erika	2
	short		••••••				Érdi bőtermő	3
	short	to medium	•				Samor	4
	mediu	ım					Fanal	5
	mediu	ım to long					Morsam, Pándy Bb 119	6
	long						Kántorjánosi 3, Nana	7
	long t	o very long					Érdi nagygyümölcsű, Újfehértói fürtös	8
	very l	ong					Bianchi di Offagna	9
31.	QN	VG		(f)				
	Fruit: stalk	thickness of						
	very t	hin	+			·		1
	thin						Bianchi di Offagna	2
	mediu	ım					Cigánymeggy 7	3
	thick						Kántorjánosi 3	4
	very t	hick						5

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
32. (*)	QL	VG	(f)				
	Fruit: colora	anthocyanin ation of stalk					
	absen	ıt				Meteor korai	1
	prese	nt				Újfehértói fürtös	9
33.	QN	VG	(f)		•		•
		number of s on stalk					
	absen	nt or few				Piramis, Ţarina	1
	mediu	ım			<u> </u>	Érdi bőtermő, Morina	2
	many					Gerema, Kántorjánosi 3, Kelleriis 16	3
34.	QN	VG	(f)			<u>.</u>	
	Fruit: stalk	size of bracts on					
	very small					Érdi jubileum	1
	small					Schattenmorelle	2
	mediu	ım				Kelleriis 16, Nana	3
	large					Kántorjánosi 3	4
	very large					Debreceni bőtermő	5
35.	QL	VG	(f)				
		abscission layer een stalk and fruit					
	absen					Csengődi, Meteor korai	1
	prese					Karneol, Újfehértói fürtös	9
36. (*)	PQ	VG	(f)				1
·	Fruit:	color of skin	·				
	orang	e red				Meteor, Pipacs 1	1
	light re	ed				Favorit, Montmorency	2
İ	medium red					Pándy Bb 119	3
	dark r	ed				Cigánymeggy 7, Gerema, Nana	4
	brown	ı red				Karneol, Kelleriis 16, Schattenmorelle	5
	blacki	sh				Érdi jubileum, North Star	6

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37. (*)	PQ VG	(f)				
	Fruit: color of flesh					
	yellowish				Montmorency, Pipacs 1	1
	pink				Meteor, Pándy 279	2
	medium red				Kántorjánosi 3, Karneol	3
	dark red				Cigánymeggy 7, Fanal	4
38. (*)	PQ VG	(f)				
	Fruit: color of juice					
	colorless				Montmorency	1
	light yellow				Pipacs 1	2
	pink				Meteor, Pándy 7	3
	medium red				Kántorjánosi 3, Karneol	4
	dark red				Cigánymeggy 7,	5
		:			Érdi jubileum, Fanal	
39. (*)	QN MG/VG	(f)		T		
	Fruit: firmness					
	very soft					1
	very soft to soft				Cigánymeggy 59	2
	soft				Csengődi, Samor	3
	soft to medium				Debreceni bőtermő	4
	medium				Karneol, Pándy 279	5
	medium to firm				Morsam, Nana	6
	firm				Érdi jubileum	7
	firm to very firm				Petri	8
	very firm					9
40.	QN VG	(f)		Ţ		_
	Fruit: acidity					
	very low				Meteor korai	1
	very low to low					2
	low			<u> </u>	Érdi bőtermő, Spinell	3
	low to medium			†		4
	medium				Impératrice Eugénie, Pándy 279	5
	medium to high				Újfehértói fürtös	6
	high				Meteor, Montmorency	7
	high to very high				Erika	8
	very high				Cigánymeggy 7, Schattenmorelle	9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
41.	QN	VG		(f)				-
	Fruit:	sweetness						
	very lo	DW					Kelleriis 16	1
	very lo	ow to low						2
	low						Montmorency	3
	low to	medium						4
	mediu	ım					Pándy 279	5
	mediu	ım to high						6
	high						Favorit	7
	high to	o high					Petri	8
	very h	igh					Érdi jubileum	9
42.	QN	VG		(f)				•
·	Fruit:	juiciness						
	very v	veak						1
	weak						Érdi jubileum	2
	medium						Petri	3
	strong						Érdi nagygyümölcsű, Fanal	4
	very s	trong					Erika	5
43. (*)	QN	MG/VG		(f)				
l	Stone	e: size						
	very s	mall					Érdi ipari	1
	very s	mall to small					Erika	2
	small						Stevnsbaer	3
	small	to medium					Favorit, Oblachinska	4
	mediu	ım					Érdi bőtermő, Schattenmorelle	5
	mediu	ım to large					Petri, Porthos	6
	large						Maliga emléke, Pándy Bb. 119	7
	large	to very large					Fanal, Nana	8
	very la	arge					Pipacs 1	9
44. (*)	QN	VG	(+)	(f)		•	•	•
	Stone	e: shape in al view						
	narro	w elliptic					Csengődi, Meteor	1
	broad	elliptic					Fanal, Maliga emléke	2
	circula	ar					Érdi jubileum, Kelleriis 16	3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
45. (*)	QN	MG/VG		(f)				
	Fruit: fruit /	ratio weight of weight of stone						
	very s	small					Oblachinska	1
	very s	small to small					Cigánymeggy 59	2
	small						Pipacs 1	3
	small	to medium					Nana	4
	mediu						Éva, Pándy Bb 119	5
	mediu	ım to large					Kántorjánosi 3, Montmorency	6
	large						Érdi nagygyümölcsű	7
	large	to very large					Érdi jubileum	8
	very l	arge					Érdi ipari	9
46. (*)	QN	MG/VG	(+)					
	Time flowe	of beginning of ring						
	very e	early					Érdi ipari	1
	very e	early to early					Bianchi di Offagna, Érdi bőtermő	2
	early						Favorit, Meteor korai	3
	early	to medium					Fanal	4
	mediu	ım					Cigánymeggy 7, Vowi	5
	mediu	ım to late					Érdi nagygyümölcsű	6
	late						Gerema, Kelleriis 16	7
	late to	very late					Schattenmorelle	8
	very la	ate					Morsam	9
47. (*)	QN	MG/VG	(+)					
	Time fruit i	of beginning of ipening						
	very e	early					Érdi ipari, Ţarina	1
	very e	early to early					Érdi jubileum	2
	early						Meteor korai, Piramis	3
	early	to medium					Érdi nagygyümölcsű	4
	mediu	medium					Érdi bőtermő, Favorit	5
	mediu	medium to late					Pándy 7	6
	late						Kántorjánosi 3, Pándy 279	7
	late to	very late					Bianchi di Offagna	8
	very l	ate					Gerema, Vowi	9

8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

Characteristics containing the following key in the Table of Characteristics should be examined as indicated below:

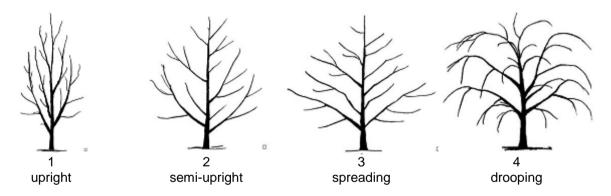
- (a) <u>Tree/One-year-old shoot</u>: Unless otherwise stated, all observations on the tree and on the one-year-old shoot should be made during winter, on trees that have fruited at least once.
- (b) <u>Leaf</u>: Unless otherwise stated, all observations of the leaf should be made on the middle fully developed leaves of a spur in early summer.
- (c) <u>Nectaries</u>: Observations of nectaries should be made in early summer on fully developed leaves from the middle third of a well-developed current season's shoot.
- (d) <u>Stipule</u>: Observations of stipule should be made on the fifth or sixth fully developed leaf of a long shoot, during the rapid growth.
- (e) Flower: Unless otherwise stated, all observations on the flower should be made on fully developed flowers at the beginning of anther dehiscence.
- (f) Fruit and Stone: All observations on the fruit and stone should be made at full maturity.

8.2 Explanations for individual characteristics

Ad. 1: Tree: vigor

The tree vigor should be considered as the overall abundance of vegetative growth.

Ad. 2: Tree: habit



Ad. 3: Tree: branching

Observations should be carried out on scaffold branches with the degree of branching being indicated by the density of lateral branches and shoots, excluding fruiting shoots.

Ad. 4: Tree: bud distribution

Observations should be carried out before picking time.

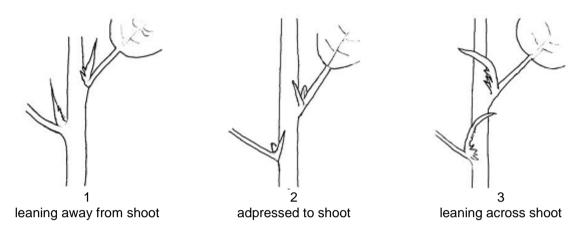
Ad. 7: One-year-old shoot: length of internode

Should be observed in the dormant period.

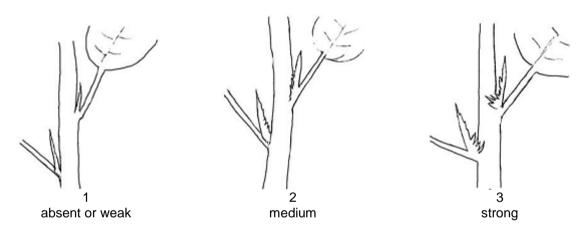
Ad. 19: Nectaries: color

Observations of these characteristics should be made in early summer on fully developed leaves from the middle third of a well developed current season's shoot.

Ad. 20: Stipule: attitude



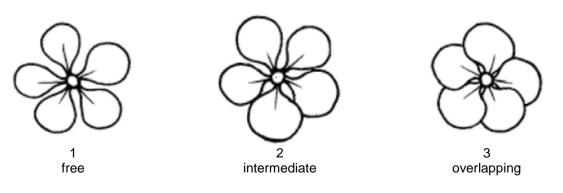
Ad. 22: Stipule: extensions of margins



Ad. 23: Flower: diameter

Observations or measurements should be carried out on completely opened flowers with petals pressed into horizontal position.

Ad. 24: Flower: arrangement of petals



Ad. 25: Flower: shape of petal

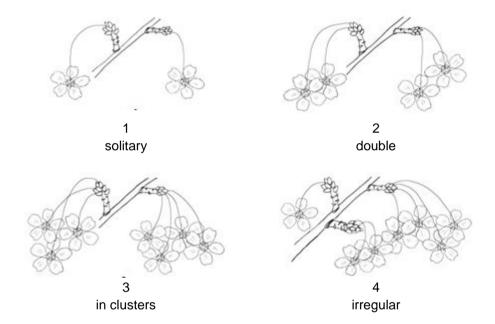




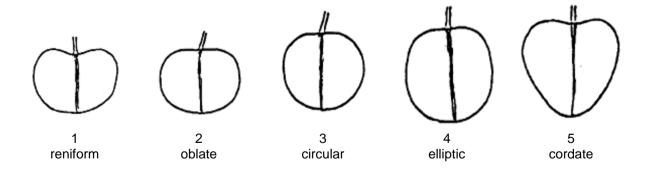


broad obovate

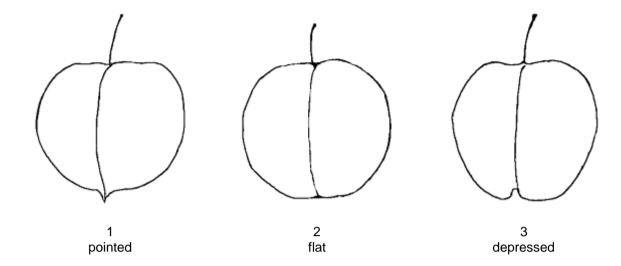
Ad. 26: Flower: arrangement



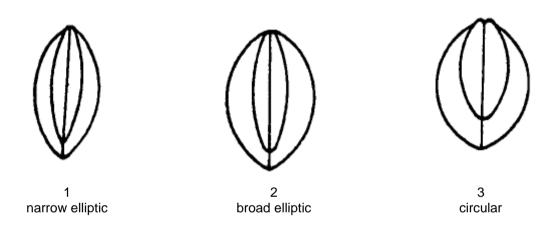
Ad. 28: Fruit: shape in ventral view



Ad. 29: Fruit: pistil end



Ad. 44: Stone: shape in ventral view



Ad. 46: Time of beginning of flowering

When 5-10% open flowers can be observed.

Ad. 47: Time of beginning of fruit ripening

When 5-10% ripe fruits can be observed. Fruit ripening should be considered as the time of eating ripeness, when the fruit can be most easily removed from the stalk.

8.3 Synonym(s) of Example Varieties

Example Varieties	Synonym(s)
Cigánymeggy	Zigeunersauerkirsche
Fanal	Heimanns Konservenweichsel
Kelleriis 16	Morellenfeuer
Petri	Lövőpetri
Schattenmorelle	Griotte du Nord, Lotovka, Latos meggy, Łutówka, Morella pozdní

9. Literature

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10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIRE				Page {x} of {y} Reference Number:		
					Application date: (not to be filled in by the applican	nt)
		to be completed in c		HNICAL QUESTION	NAIRE on for plant breeders' rights	
1.	Subject	of the Technical Questio			error plant brooders lighte	
	1.1.1	Botanical name	Pru	ınus cerasus L.		I 1
	1.1.2	Common name	So	ur cherry, Tart cherry,	Morello	
	1.2.1	Botanical name	Pru	unus ×gondouinii (Poit	. & Turpin) Rehder	[]
	1.2.2	Common name	Du	ke cherry		
	1.3.1	Botanical name	P. 6	avium L. x P. cerasus	L	[]
	1.3.2	Common name				
2.	Applica	nt				
	Name]
	Address	S				
	Telepho	one No.]
	Fax No.]
	E-mail a	address]
	Breeder applicar	r (if different from nt)				
3.	Propose	ed denomination and bre	eder'	s reference		
	Propose (if availa	ed denomination able)				
	Breeder	's reference				

TECHN	IICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number	r:
#4.	Informat	tion on the breeding scheme	and propagation of the	variety	
	4.1	Breeding scheme			
	Variety	resulting from:			
	4.1.1	Crossing			
	(a)	controlled cross			[]
	(b)	partially known cross			[]
		(please state known parent			
		() x	()
		female parent		male parent	
	(c)	unknown cross			[]
	4.1.2	Mutation (please state parent variety)		[]
	4.1.3	Discovery and developmen (please state where and wh	t nen discovered and how	developed)	[]
	4.1.4	Other (Please provide details)			[]

TECHNICAL C	NIESTIONNAIDE	Dogo (v)	of (v)	Potoronos Numba	
I ECHINICAL C	QUESTIONNAIRE	Page {x}	UI {y}	Reference Numbe	i.
4.2 4.2.1	Method of propagating the v	/ariety			
(a) (b)	Budding or grafting Other (state method)				[]
4.2.2	Other (Please provide details)				[]
	case of hybrid varieties the pro nould provide details of all the				
Single				- 1 - 3	3
() x	()	
fen	nale parent		male parent		
Three-\	Way Hybrid				
() x	()	
fem	nale line		male line		
() x	()	
sin	gle hybrid used as female pare	ent	male parent		
and sh	ould identify in particular:				
(a) any	male sterile lines				
(b) mai	intenance system of male ster	ile lines.			

TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	Example Varieties	Note
	Characteristics	Example valleties	Note
5.1 (27)	Fruit: size		
. ,	very small	Oblachinska	1[]
	very small to small	Erika	2[]
	small	Cigánymeggy 7, Cigánymeggy C. 404	3[]
	small to medium	Korai pipacs	4[]
	medium	Schattenmorelle, Érdi bőtermő	5[]
	medium to large	Favorit, Kelleriis 16	6[]
	large	Karneol, Morsam, Éva	7[]
	large to very large	Pándy Bb 119	8[]
	very large	Petri, Piramis, Safir	9[]
5.2 (36)	Fruit: color of skin		
	orange red	Meteor, Pipacs 1	1[]
	light red	Favorit, Montmorency	2[]
	medium red	Pándy Bb 119	3[]
	dark red	Cigánymeggy 7, Gerema, Nana	4[]
	brown red	Karneol, Kelleriis 16, Schattenmorelle	5[]
	blackish	North Star, Érdi jubileum	6[]
5.3 (37)	Fruit: color of flesh		
	yellowish	Montmorency, Pipacs 1	1[]
	pink	Meteor, Pándy 279	2[]
	medium red	Karneol, Kántorjánosi 3	3[]
	dark red	Cigánymeggy 7, Fanal	4[]
5.4 (38)	Fruit: color of juice		
	colorless	Montmorency	1[]
	light yellow	Pipacs 1	2[]
	pink	Meteor, Pándy 7	3[]
	medium red	Karneol, Kántorjánosi 3	4[]
	dark red	Cigánymeggy 7, Fanal, Érdi jubileum	5[]

	Characteristics	Example Varieties	Note
5.5 (46)	Time of beginning of flowering		
	very early	Érdi ipari	1[]
	very early to early	Bianchi di Offagna, Érdi bőtermő	2[]
	early	Favorit, Meteor korai	3[]
	early to medium	Fanal	4[]
	medium	Cigánymeggy 7, Vowi	5[]
	medium to late	Érdi nagygyümölcsű	6[]
	late	Gerema, Kelleriis 16	7[]
	late to very late	Schattenmorelle	8[]
	very late	Morsam	9[]
5.6 (47)	Time of beginning of fruit ripening		
	very early	Érdi ipari, Ţarina	1[]
	very early to early	Érdi jubileum	2[]
	early	Meteor korai, Piramis	3[]
	early to medium	Érdi nagygyümölcsű	4[]
	medium	Favorit, Érdi bőtermő	5[]
	medium to late	Pándy 7	6[]
	late	Kántorjánosi 3, Pándy 279	7[]
	late to very late	Bianchi di Offagna	8[]
	very late	Gerema, Vowi	9[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:				
5. Similar varieties and differences from these varieties						
Please use the following table and box for c the variety (or varieties) which, to the best examination authority to conduct its examin	of your knowledge, is (or are	e) most similar. This inform				
variety(ies) similar to your your candidate	e variety differs the characte	eristic(s) for the the chara	e the expression of acteristic(s) for your ndidate variety			
Example						
Comments:						

TECHN	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
#7.	Additional information whi	ch may help in the examinat	ion of the variety	
7.1	In addition to the informati help to distinguish the var		nd 6, are there any additional characteristic	s which may
	Yes []	No	[]	
	(If yes, please provide det	ails)		
7.2	Are there any special con	ditions for growing the varie	ty or conducting the examination?	
	Yes []	No	[]	
	(If yes, please provide det	ails)		
7.3	Other information			
Techni supple The ke • • versior Furthe "Devel	ical Questionnaire. The pho ments the information provi ey points to consider when the Indication of the date and Correct labeling (breeder Good quality printed photon (minimum 960 x 1280 pixeder guidance on providing photon)	otograph will provide a visual ded in the Technical Questic taking a photograph of the call geographic location is reference) tograph (minimum 10 cm x 1 tels)" otographs with the Technica is Guidance Note 35 (http://w	andidate variety are: 5 cm) and/or sufficient resolution electronional Questionnaire is available in document To	c format GP/7

TECH	HNICA	L QUES	TIONNAIRE	Page {x}	of {y}	Refe	rence Number:	
8.	Authorization for release							
	(a)	Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?						
		Yes	[]	No	[]			
	(b)	Has such authorization been obtained?						
		Yes	[]	No	[]			
	If the answer to (b) is yes, please attach a copy of the authorization.							
9. Inf	ormati	on on plar	nt material to be exa	mined or subm	itted for exa	amination		
	and	disease,		(e.g. growth r	etardants o	or pesticio	riety may be affected des), effects of tissu	
chara has u	acterist underg	ics of the one such	variety, unless the	competent autles of the treatm	horities allo	w or requ e given. I	th would affect the lest such treatment. In this respect, please bjected to:	f the plant material
	(a)	Mic	roorganisms (e.g. vi	rus, bacteria, p	hytoplasma	ı)	Yes []	No []
	(b)	Che	emical treatment (e.g	g. growth retard	dant, pestici	de)	Yes []	No []
	(c)	Tiss	sue culture				Yes []	No []
	(d)	Oth	er factors				Yes []	No []
	Ple	Please provide details for where you have indicated "yes".						
10.	10. I hereby declare that, to the best of my knowledge, the information provided in this form is corre							
	App	olicant's n	ame					
			Г					
	Sig	gnature					Date	

[End of document]