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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 cerasus L.;
Prunus ×*gondouinii* (Poit. & Turpin) Rehder

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Hungary

to be considered by

the Technical Committee at its fifty-ninth session
to be held in Geneva on October 23 and 24, 2023

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 one-year-old grafts or budwood for grafting.

2.3 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.

In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be at least 2.

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.

4.2.3 For the assessment of uniformity in a sample of 5 plants, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 5 plants, no off-types are allowed.

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: color of skin (characteristic 36)
(b) Fruit: color of flesh (characteristic 37)
(c) Fruit: color of juice (characteristic 38)
(d) Time of beginning of flowering (characteristic 46)
(e) 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. Introduction to the Table of Characteristics

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 pseudo-qualitative) 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	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1 2	**3 4**	**5 6**	**7**			
	Name of characteristics in English	**Nom du caractère en français**	**Name des Merkmals auf Deutsch**	**Nombre del carácter en español**		
	states of expression	types d'expression	Ausprägungsstufen	tipos de expresión		

1 Characteristic number

2 (*) Asterisked characteristic – see Chapter 6.1.2

3 Type of expression
QL Qualitative characteristic – see Chapter 6.3
QN Quantitative characteristic – see Chapter 6.3
PQ Pseudo-qualitative characteristic – see Chapter 6.3

4 Method of observation (and type of plot, if applicable)
MG, MS, VG, VS – see Chapter 4.1.5

5 (+) See Explanations on the Table of Characteristics in Chapter 8.2

6 (a)-(f) See Explanations on the Table of Characteristics in Chapter 8.1

7 Not applicable

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

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.		**QN VG**	**(+) (a)**				
		Tree: vigor	**Arbre : vigueur**	**Baum: Wuchsstärke**	**Árbol: vigor**		
		very weak	très faible	sehr gering	muy débil	Demesova, Kelleriis 14, Samor	1
		very weak to weak	très faible à faible	sehr gering bis gering	muy débil a débil		2
		weak	faible	gering	débil	Gerema, Nana	3
		weak to medium	faible à moyenne	gering bis mittel	débil a medio		4
		medium	moyenne	mittel	medio	Karneol, Montmorency	5
		medium to strong	moyenne à forte	mittel bis stark	medio a fuerte		6
		strong	forte	stark	fuerte	Kántorjánosi 3, Pándy Bb. 119	7
		strong to very strong	forte à très forte	stark bis sehr stark	fuerte a muy fuerte		8
		very strong	très forte	sehr stark	muy fuerte	Érdi nagygyümölcsű, Piramis	9
2.	**(*)**	**PQ VG**	**(+) (a)**				
		Tree: habit	**Arbre : port**	**Baum: Wuchsform**	**Árbol: porte**		
		upright	dressé	aufrecht	erecto	Oblachinska, Piramis, Ţarina	1
		semi-upright	demi-dressé	halbaufrecht	semierecto	Safir, Újfehértói fürtös	2
		spreading	étalé	breitwüchsig	extendido	Karneol, Montmorency, Samor	3
		drooping	pendant	überhängend	colgante	Cigánymeggy 7	4
3.	**(*)**	**QN VG**	**(+) (a)**				
		Tree: branching	**Arbre : ramification**	**Baum: Verzweigung**	**Árbol: ramificación**		
		very weak	très faible	sehr gering	muy débil		1
		very weak to weak	très faible à faible	sehr gering bis gering	muy débil a débil	Piramis	2
		weak	faible	gering	débil	Meteor korai, Samor	3
		weak to medium	faible à moyenne	gering bis mittel	débil a media		4
		medium	moyenne	mittel	media	Morsam, Pándy Bb. 119	5
		medium to strong	moyenne à forte	mittel bis stark	media a fuerte		6
		strong	forte	stark	fuerte	Cigánymeggy 7, Montmorency, Safir	7
		strong to very strong	forte à très forte	stark bis sehr stark	fuerte a muy fuerte	Erika	8
		very strong	très forte	sehr stark	muy fuerte	Bianchi di Offagna	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4.	**PQ VG**	**(+) (a)**				
	Tree: bud distribution	**Arbre : répartition des bourgeons**	**Baum: Verteilung der Knospen**	**Árbol: distribución de las yemas**		
	along entire branch	le long de la branche entière	entlang des ganzen Zweigs	por toda la rama	Coralin, Maliga emléke, Piramis	1
	only on middle and distal part of branch	seulement sur la partie médiane et distale de la branche	nur in der Mitte und am distalen Teil des Zweigs	únicamente en la parte media y en la parte distal de la rama	Érdi jubileum, Meteor, Morava	2
	only on distal part of branch	seulement sur la partie distale de la branche	nur am distalen Teil des Zweigs	únicamente en la parte distal de la rama	Cigánymeggy 7, Samor, Schattenmorelle	3
5.	**QN VG**					
	Young shoot: anthocyanin coloration of apex (during rapid growth)	**Jeune rameau : pigmentation anthocyanique de l'apex (pendant la croissance rapide)**	**Junger Trieb: Anthocyanfärbung des Apex (während des schnellen Wachstums)**	**Tallo joven: pigmentación antociánica del ápice (durante el crecimiento rápido)**		
	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Cigánymeggy 59, Meteor	1
	very weak to weak	très faible à faible	sehr gering bis gering	muy débil a débil		2
	weak	faible	gering	débil	Kelleriis 14, Montmorency	3
	weak to medium	faible à moyenne	gering bis mittel	débil a media		4
	medium	moyenne	mittel	media	Érdi bőtermő, Meteor korai, Schattenmorelle	5
	medium to strong	moyenne à forte	mittel bis stark	media a fuerte		6
	strong	forte	stark	fuerte	Érdi jubileum, Fanal	7
	strong to very strong	forte à très forte	stark bis sehr stark	fuerte a muy fuerte		8
	very strong	très forte	sehr stark	muy fuerte	Érdi nagygyümölcsű, Topas	9
6.	**QN VG**					
	Young shoot: pubescence of apex (during rapid growth)	**Jeune rameau : pilosité de l'apex (pendant la croissance rapide)**	**Junger Trieb: Behaarung des Apex (während des schnellen Wachstums)**	**Tallo joven: pubescencia del ápice (durante el crecimiento rápido)**		
	very weak	très faible	sehr gering	muy débil		1
	very weak to weak	très faible à faible	sehr gering bis gering	muy débil a débil		2
	weak	faible	gering	débil	Cigánymeggy 7, Csengődi, Karneol	3
	weak to medium	faible à moyenne	gering bis mittel	débil a media		4
	medium	moyenne	mittel	media	Favorit, Morava	5
	medium to strong	moyenne à forte	mittel bis stark	media a fuerte		6
	strong	forte	stark	fuerte	Cigánymeggy 59	7
	strong to very strong	forte à très forte	stark bis sehr stark	fuerte a muy fuerte		8
	very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	**QN VG**	**(+) (a)**				
	One-year-old shoot: length of internode	**Rameau d'un an : longueur de l'entre-nœud**	**Einjähriger Trieb: Länge des Internodiums**	**Rama de un año: longitud del entrenudo**		
	very short	très courte	sehr kurz	muy corta	Erika	1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta	Nana, Samor	2
	short	courte	kurz	corta	Meteor, Schattenmorelle	3
	short to medium	courte à moyenne	kurz bis mittel	corta a media	Fanal	4
	medium	moyenne	mittel	media	Cigánymeggy 7, Petri	5
	medium to long	moyenne à longue	mittel bis lang	media a larga	Maliga emléke	6
	long	longue	lang	larga	Érdi bőtermő	7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga	Érdi jubileum, Érdi nagygyümölcsű	8
	very long	très longue	sehr lang	muy larga	Érdi ipari	9
8.	**QN VG**	**(a)**				
	One-year-old shoot: number of lenticels	**Rameau d'un an : nombre de lenticelles**	**Einjähriger Trieb: Anzahl Lentizellen**	**Rama de un año: número de lenticelas**		
	very few	très petit	sehr gering	muy bajo	Cigánymeggy 59	1
	few	petit	gering	bajo	Bianchi di Offagna, Cigánymeggy 7	2
	medium	moyen	mittel	medio	Pándy Bb 119, Petri	3
	many	élevé	hoch	alto	Érdi nagygyümölcsű	4
	very many	très élevé	sehr hoch	muy alto	Piramis	5
9.	**QN VG**	**(b)**				
	Leaf blade: length	**Limbe : longueur**	**Blattspreite: Länge**	**Limbo: longitud**		
	very short	très courte	sehr kurz	muy corta	Oblachinska	1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta	Cigánymeggy 59	2
	short	courte	kurz	corta	Cigánymeggy C. 404, Meteor	3
	short to medium	courte à moyenne	kurz bis mittel	corta a media	Fanal	4
	medium	moyenne	mittel	media	Kántorjánosi 3, Karneol, Kelleriis 16	5
	medium to long	moyenne à longue	mittel bis lang	media a larga	Pándy 279	6
	long	longue	lang	larga	Érdi bőtermő, Favorit, Maliga emléke	7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga	Csengődi	8
	very long	très longue	sehr lang	muy larga	Márta	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
10.	**QN VG**	**(b)**				
	Leaf blade: width	**Limbe : largeur**	**Blattspreite: Breite**	**Limbo: anchura**		
	very narrow	très étroite	sehr schmal	muy estrecha	Oblachinska	1
	very narrow to narrow	très étroite à étroite	sehr schmal bis schmal	muy estrecha a estrecha	Cigánymeggy 7	2
	narrow	étroite	schmal	estrecha	Montmorency, Schattenmorelle	3
	narrow to medium	étroite à moyenne	schmal bis mittel	estrecha a media	Érdi ipari	4
	medium	moyenne	mittel	media	Karneol, Kelleriis 16, Pándy Bb. 119	5
	medium to broad	moyenne à large	mittel bis breit	media a ancha	Éva	6
	broad	large	breit	ancha	Maliga emléke	7
	broad to very broad	large à très large	breit bis sehr breit	ancha muy ancha	Érdi nagygyümölcsű	8
	very broad	très large	sehr breit	muy ancha	Márta	9
11. **(*)**	**QN VG**	**(b)**				
	Leaf blade: ratio length/width	**Limbe : rapport longueur/largeur**	**Blattspreite: Verhältnis Länge/Breite**	**Limbo: relación longitud/anchura**		
	very low	très bas	sehr klein	muy baja		1
	very low to loe	très bas à bas	sehr klein bis klein	muy baja a baja	Kelleriis 16	2
	low	bas	klein	baja	Cigánymeggy 7	3
	low to medium	bas à moyen	klein bis mittel	baja a media	Samor	4
	medium	moyen	mittel	media	Karneol, Maliga emléke	5
	lmedium to high	moyen à élevé	mittel bis groß	media a alta	Pándy 279	6
	high	élevé	groß	alta	Meteor korai, Oblachinska	7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta	Favorit	8
	very high	très élevé	sehr groß	muy alta	Montmorency	9
12.	**QN VG**	**(b)**				
	Leaf blade: intensity of green color of upper side	**Limbe : intensité de la couleur verte de la face supérieure**	**Blattspreite: Intensität der Grünfärbung der Oberseite**	**Limbo: intensidad del color verde del haz**		
	very light	très claire	sehr hell	muy clara		1
	light	claire	hell	clara	Csengődi	2
	medium	moyenne	mittel	media	Cigánymeggy 7, Éva	3
	dark	foncée	dunkel	oscura	Érdi nagygyümölcsű, Pándy Bb 119	4
	very dark	très foncée	sehr dunkel	muy oscura	Fanal, Favorit	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	**QN VG**	**(b)**				
	Leaf blade: glossiness	**Limbe : brillance**	**Blattspreite: Glanz**	**Limbo: brillo**		
	absent or weak	absente ou très faible	fehlend oder gering	ausente o débil	Csengődi	1
	very weak to weak	très faible à faible	sehr gering bis gering	muy débil a débil		2
	weak	faible	gering	débil	Schattenmorelle	3
	weak to medium	faible à moyenne	gering bis mittel	débil a medio		4
	medium	moyenne	mittel	medio	Debreceni bőtermő	5
	medium to strong	moyenne à forte	mittel bis stark	medio a fuerte		6
	strong	forte	stark	fuerte	Karneol, Pándy 279	7
	strong to very strong	forte à très forte	stark bis sehr stark	fuerte a muy fuerte		8
	very strong	très forte	sehr stark	muy fuerte	Maliga emléke	9
14. **(*)**	**QN MG/VG**	**(b)**				
	Leaf: length of petiole	**Feuille : longueur du pétiole**	**Blatt: Länge des Blattstiels**	**Hoja: longitud del peciolo**		
	very short	très courte	sehr kurz	muy corta		1
	very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta	Oblachinska	2
	short	courte	kurz	corta	Karneol, Kelleriis 16	3
	short to medium	courte à moyenne	kurz bis mittel	corta a media	Pándy 279	4
	medium	moyenne	mittel	media	Maliga emléke, Montmorency, Újfehértói fürtös	5
	medium to long	moyenne à longue	mittel bis lang	media a larga	Piramis	6
	long	longue	lang	larga	Favorit	7
	long to very long	longue à très longue	lang bis sehr lang	larga a muy larga	Márta	8
	very long	très longue	sehr lang	muy larga		9
15.	**QN VG**	**(b)**				
	Petiole: intensity of anthocyanin coloration on upper side	**Pétiole : intensité de la pigmentation anthocyanique sur la face supérieure**	**Blattstiel: Intensität der Anthocyanfärbung der Oberseite**	**Peciolo: intensidad de la coloración antociánica en el haz**		
	very weak	très faible	sehr gering	muy débil	Érdi ipari	1
	weak	faible	gering	débil	Gerema, Oblachinska	2
	medium	moyenne	mittel	media	Favorit	3
	strong	forte	stark	fuerte	Fanal, Montmorency, Safir	4
	very strong	très forte	sehr stark	muy fuerte	Csengődi	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.	**QN MG/VG**	**(b)**				
	Leaf: ratio length of blade / length of petiole	**Feuille : rapport longueur du limbe / longueur du pétiole**	**Blatt: Verhältnis Länge der Blattspreite / Länge des Blattstiels**	**Hoja: relación longitud del limbo / longitud del peciolo**		
	very low	très bas	sehr klein	muy baja		1
	very low to low	très bas à bas	sehr klein bis klein	muy baja a baja	Olibel	2
	low	bas	klein	baja	Pipacs 1	3
	low to medium	bas à moyen	klein bis mittel	baja a media	Favorit	4
	medium	moyen	mittel	media	Montmorency	5
	medium to high	moyen à élevé	mittel bis groß	media a alta	Érdi bőtermő, Erika	6
	high	élevé	groß	alta	Karneol, Kelleriis 16, Meteor	7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta	Debreceni bőtermő, Pándy 279	8
	very high	très élevé	sehr groß	muy alta	Nana, Petri	9
17. **(*)**	**QL VG**	**(b)**				
	Leaf: presence of nectaries	**Feuille : présence de nectaires**	**Blatt: Vorhandensein von Nektarien**	**Hoja: presencia de nectarios**		
	absent	absente	fehlend	ausente	North Star, Oblachinska	1
	present	présente	vorhanden	presente	Favorit, Piramis	9
18.	**QN VG**	**(c)**				
	Nectaries: position	**Nectaires : position**	**Nektarien: Stellung**	**Nectarios: posición**		
	at base of leaf only	à la base de la feuille seulement	nur an der Basis des Blattes	únicamente en la base de la hoja	Karneol, Meteor	1
	both at base of leaf blade and on petiole	à la base du limbe et sur le pétiole	an der Basis der Blattspreite und am Blattstiel	en la base del limbo y en el pecíolo	Favorit, Montmorency	2
	on petiole only	sur le pétiole seulement	nur am Blattstiel	únicamente en el pecíolo	Kántorjánosi 3, Pipacs 1, Ţarina	3
19.	**PQ VG**	**(+)** **(c)**				
	Nectaries: color	**Nectaires : couleur**	**Nektarien: Farbe**	**Nectarios: color**		
	greenish yellow	jaune verdâtre	grünlichgelb	amarillo verdoso	Coralin, Samor	1
	orange yellow	jaune orangé	orangegelb	amarillo anaranjado	Kántorjánosi 3, Topas	2
	light red	rouge clair	hellrot	rojo claro	Cigánymeggy 7, Érdi bőtermő, Oblachinska	3
	dark red	rouge foncé	dunkelrot	rojo oscuro	Meteor, Nana	4
	brownish	brunâtre	bräunlich	parduzco	Karneol, Morina	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20.	**QN VG**	**(+) (d)**				
	Stipule: attitude	**Stipule : port**	**Nebenblatt: Haltung**	**Estípula: porte**		
	leaning away from shoot	incliné par rapport au rameau	vom Trieb abstehend	apartado de la rama	Kelleriis 16, Meteor, Samor	1
	adpressed to shoot	apprimé au rameau	am Trieb anliegend	contra la rama	Favorit, Pándy 279	2
	leaning across shoot	en travers du rameau	über den Trieb ragend	cruzando la rama	Csengődi, Pipacs 1, Piramis	3
21.	**QN VG**	**(d)**				
	Stipule: size	**Stipule : taille**	**Nebenblatt: Größe**	**Estípula: tamaño**		
	very small	très petite	sehr klein	muy pequeño		1
	small	petite	klein	pequeño	Favorit, Schattenmorelle, Újfehértói fürtös	2
	medium	moyenne	mittel	medio	Debreceni bőtermő, Maliga emléke, Samor	3
	large	grande	groß	grande	Meteor korai, Morsam	4
	very large	très grande	sehr groß	muy grande		5
22.	**QN VG**	**(+) (d)**				
	Stipule: degree of lobing	**Stipule : degré de la découpure du bord**	**Nebenblatt: Stärke der Lappung**	**Estípula: grado de lobulado**		
	absent or weak	absent ou faible	fehlend oder gering	ausente o débil	Oblachinska, Schattenmorelle, Újfehértói fürtös	1
	medium	moyen	mittel	medio	Piramis, Samor	2
	strong	fort	stark	fuerte	Csengődi, Kelleriis 16, Meteor korai	3
23.	**QN MG/VG**	**(+) (e)**				
	Flower: diameter	**Fleur : diamètre**	**Blüte: Durchmesser**	**Flor: diámetro**		
	very small	très petit	sehr klein	muy pequeño	Oblachinska	1
	very small to small	très petit à petit	sehr klein bis klein	muy pequeño a pequeño	Samor	2
	small	petit	klein	pequeño	Bianchi di Offagna, Erika	3
	small to medium	petit à moyen	klein bis mittel	pequeño a medio	Fanal	4
	medium	moyen	mittel	medio	Cigánymeggy 7, Montmorency	5
	medium to large	moyen à grand	mittel bis groß	medio a grande	Kelleriis 16, Petri	6
	large	grand	groß	grande	Érdi jubileum, Pándy Bb. 119	7
	large to very large	grand à très grand	groß bis sehr groß	grande a muy grande	Márta	8
	very large	très grand	sehr groß	muy grande	Csengődi	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.		**QN VG**	**(+) (e)**				
		Flower: arrangement of petals	**Fleur : disposition des pétales**	**Blüte: Anordnung der Blütenblätter**	**Flor: disposición de los pétalos**		
		free	disjointe	freistehend	libre	Kelleriis 16, Újfehértói fürtös	1
		intermediate	intermédiaire	intermediär	intermedia	Érdi jubileum, Montmorency, Schattenmorelle	2
		overlapping	se recouvrante	überlappend	solapada	Favorit, Meteor korai, Oblachinska	3
25.		**PQ VG**	**(+) (e)**				
		Flower: shape of petal	**Fleur : forme du pétale**	**Blüte: Form des Blütenblattes**	**Flor: forma del pétalo**		
		circular	circulaire	kreisförmig	circular	Favorit, Meteor, Oblachinska	1
		medium obovate	obovale moyenne	mittel verkehrt eiförmig	oboval media	Kelleriis 16, Pipacs 1, Safir	2
		broad obovate	large obovale	breit verkehrt eiförmig	oboval ancha	Érdi bőtermő, Korai pipacs, Schattenmorelle	3
26.		**PQ VG**	**(+) (e)**				
		Flower: arrangement	**Fleur : répartition**	**Blüte: Anordnung**	**Flor: disposición**		
		solitary	unique	einzeln	aislada	Cerella, Nabella	1
		double	double	doppelt	doble	Safir	2
		in clusters	en amas	in Büscheln	en racimos	Újfehértói fürtös	3
		irregular	irrégulière	unregelmäßig	irregular	Schattenmorelle	4
27.	**(*)**	**QN MG/VG**		**(f)**			
		Fruit: size	**Fruit : taille**	**Frucht: Größe**	**Fruto: tamaño**		
		very small	très petite	sehr klein	muy pequeño	Oblachinska	1
		very small to small	très petite à petite	sehr klein bis klein	muy pequeño a pequeño	Erika	2
		small	petite	klein	pequeño	Cigánymeggy 7, Cigánymeggy C. 404	3
		small to medium	petite à moyenne	klein bis mittel	pequeño a medio	Korai pipacs	4
		medium	moyenne	mittel	medio	Érdi bőtermő, Schattenmorelle	5
		medium to large	moyenne à grande	mittel bis groß	medio a grande	Favorit, Kelleriis 16	6
		large	grande	groß	grande	Éva, Karneol, Morsam	7
		large to very large	grande à très grande	groß bis sehr groß	grande a muy grande	Pándy Bb 119	8
		very large	très grande	sehr groß	muy grande	Petri, Piramis, Safir	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28.	**(*)**	**PQ VG**	**(+) (f)**				
		Fruit: shape in ventral view	**Fruit : forme en vue ventrale**	**Frucht: Form in Bauchansicht**	**Fruto: forma en vista ventral**		
		reniform	réniforme	nierenförmig	reniforme	Érdi jubileum, Pándy Bb. 119	1
		oblate	arrondie-aplatie	breitrund	achatada	Montmorency, Morina	2
		circular	circulaire	elliptisch	circular	Maliga emléke, Nana	3
		elliptic	elliptique	eingekerbt	elíptica	Csengődi, Karneol, Morsam	4
		cordate	cordée	herzförmig	cordada	Érdi bíbor	5
29.		**QN VG**	**(+) (f)**				
		Fruit: pistil end	**Fruit : extrémité du pistil**	**Frucht: Spitze**	**Fruto: extremo del pistilo**		
		pointed	pointue	zugespitzt	puntiaguda	Favorit, Morsam	1
		flat	plate	flach	plana	Korai pipacs, Samor	2
		depressed	déprimée	eingesenkt	deprimida	Cigánymeggy C. 404, Montmorency, Schattenmorelle	3
30.	**(*)**	**QN MG/VG**		**(f)**			
		Fruit: length of stalk	**Fruit : longueur du pédoncule**	**Frucht: Länge des Stiels**	**Fruto: longitud del pedúnculo**		
		very short	très courte	sehr kurz	muy corta		1
		very short to short	très courte à courte	sehr kurz bis kurz	muy corta a corta	Erika	2
		short	courte	kurz	corta	Érdi bőtermő	3
		short to medium	courte à moyenne	kurz bis mittel	corta a media	Samor	4
		medium	moyenne	mittel	media	Fanal	5
		medium to long	moyenne à longue	mittel bis lang	media a larga	Morsam, Pándy Bb 119	6
		long	longue	lang	larga	Kántorjánosi 3, Nana	7
		long to very long	longue à très longue	lang bis sehr lang	larga a muy larga	Érdi nagygyümölcsű, Újfehértói fürtös	8
		very long	très longue	sehr lang	muy larga	Bianchi di Offagna	9
31.		**QN VG**		**(f)**			
		Fruit: thickness of stalk	**Fruit : épaisseur du pédoncule**	**Frucht: Dicke des Stiels**	**Fruto: grosor del pedúnculo**		
		very thin	très mince	sehr dünn	muy delgado		1
		thin	mince	dünn	delgado	Bianchi di Offagna	2
		medium	moyenne	mittel	medio	Cigánymeggy 7	3
		thick	épaisse	dick	grueso	Kántorjánosi 3	4
		very thick	très épaisse	sehr dick	muy grueso		5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
32. (*)	**QL VG**	**(f)**				
	Fruit: anthocyanin coloration of stalk	**Fruit : pigmentation anthocyanique du pédoncule**	**Frucht: Anthocyanfärbung des Stiels**	**Fruto: pigmentación antociánica del pedúnculo**		
	absent	absente	fehlend	ausente	Meteor korai	1
	present	présente	vorhanden	presente	Újfehértói fürtös	9
33.	**QN VG**	**(f)**				
	Fruit: number of bracts on stalk	**Fruit : nombre de bractées sur le pédoncule**	**Frucht: Anzahl Brakteen am Stiel**	**Fruto: número de brácteas en el pedúnculo**		
	absent or few	absent ou petit	fehlend oder gering	ausente o bajo	Piramis, Ţarina	1
	medium	moyen	mittel	medio	Érdi bőtermő, Morina	2
	many	élevé	hoch	alto	Gerema, Kántorjánosi 3, Kelleriis 16	3
34.	**QN VG**	**(f)**				
	Fruit: size of bracts on stalk	**Fruit : taille des bractées sur le pédoncule**	**Frucht: Größe der Brakteen am Stiel**	**Fruto: tamaño de las brácteas en el pedúnculo**		
	very small	très petite	sehr klein	muy pequeño	Érdi jubileum	1
	small	petite	klein	pequeño	Schattenmorelle	2
	medium	moyenne	mittel	medio	Kelleriis 16, Nana	3
	large	grande	groß	grande	Kántorjánosi 3	4
	very large	très grande	sehr groß	muy grande	Debreceni bőtermő	5
35.	**QL VG**	**(f)**				
	Fruit: abscission layer between stalk and fruit	**Fruit : couche d'abscission entre le pédoncule et le fruit**	**Frucht: Trennschicht zwischen Stiel und Frucht**	**Fruto: capa de abscisión entre el pedúnculo y el fruto**		
	absent	absente	fehlend	ausente	Csengődi, Meteor korai	1
	present	présente	vorhanden	presente	Karneol, Újfehértói fürtös	9
36. (*)	**PQ VG**	**(f)**				
	Fruit: color of skin	**Fruit : couleur de l'épiderme**	**Frucht: Farbe der Haut**	**Frutos: color de la epidermis**		
	orange red	rouge orangé	orangerot	rojo anaranjado	Meteor, Pipacs 1	1
	light red	rouge clair	hellrot	rojo claro	Favorit, Montmorency	2
	medium red	rouge moyen	mittelrot	rojo medio	Pándy Bb 119	3
	dark red	rouge foncé	dunkelrot	rojo oscuro	Cigánymeggy 7, Gerema, Nana	4
	brown red	rouge brun	braunrot	rojo pardo	Karneol, Kelleriis 16, Schattenmorelle	5
	blackish	noirâtre	schwärzlich	negruzco	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	**Fruit : couleur de la chair**	**Frucht: Farbe des Fleisches**	**Fruto: color de la pulpa**		
		yellowish	jaunâtre	gelblich	amarillento	Montmorency, Pipacs 1	1
		pink	rose	rosa	rosa	Meteor, Pándy 279	2
		medium red	rouge moyen	mittelrot	rojo medio	Kántorjánosi 3, Karneol	3
		dark red	rouge foncé	dunkelrot	rojo oscuro	Cigánymeggy 7, Fanal	4
38.	**(*)** **PQ** **VG**		**(f)**				
		Fruit: color of juice	**Fruit : couleur du jus**	**Frucht: Farbe des Saftes**	**Fruto: color del jugo**		
		colorless	incolore	farblos	incoloro	Montmorency	1
		light yellow	jaune clair	hellgelb	amarillo claro	Pipacs 1	2
		pink	rose	rosa	rosa	Meteor, Pándy 7	3
		medium red	rouge moyen	mittelrot	rojo medio	Kántorjánosi 3, Karneol	4
		dark red	rouge foncé	dunkelrot	rojo oscuro	Cigánymeggy 7, Érdi jubileum, Fanal	5
39.	**(*)** **QN** **MG/VG**		**(f)**				
		Fruit: firmness	**Fruit : fermeté**	**Frucht: Festigkeit**	**Fruto: firmeza**		
		very soft	très molle	sehr weich	muy blanda		1
		very soft to soft	très molle à molle	sehr weich bis weich	muy blanda a blanda	Cigánymeggy 59	2
		soft	molle	weich	blanda	Csengődi, Samor	3
		soft to medium	molle à moyenne	weich bis mittel	blanda a media	Debreceni bőtermő	4
		medium	moyenne	mittel	media	Karneol, Pándy 279	5
		medium to firm	moyenne à ferme	mittel bis fest	media a firme	Morsam, Nana	6
		firm	ferme	fest	firme	Érdi jubileum	7
		firm to very firm	ferme à très ferme	fest bis sehr fest	firme a muy firme	Petri	8
		very firm	très ferme	sehr fest	muy firme		9
40.	**QN** **MG/VG**		**(+)** **(f)**				
		Fruit: acidity	**Fruit : acidité**	**Frucht: Säure**	**Fruto: acidez**		
		very low	très faible	sehr gering	muy baja	Meteor korai	1
		low	faible	gering	baja	Érdi bőtermő, Spinell	2
		medium	moyenne	mittel	media	Impératrice Eugénie, Pándy 279	3
		high	élevée	hoch	alta	Meteor, Montmorency	4
		very high	très élevée	sehr hoch	muy alta	Cigánymeggy 7, Schattenmorelle	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
41.	**QN MG/VG**	**(+) (f)**				
	Fruit: sweetness	**Fruit : goût sucré**	**Frucht: Süße**	**Fruto: sabor dulce**		
	very low	très faible	sehr gering	muy baja	Kelleriis 16	1
	very low to low	très faible à faible	sehr gering bis gering	muy baja a baja		2
	low	faible	gering	baja	Montmorency	3
	low to medium	faible à moyen	gering bis mittel	baja a media		4
	medium	moyen	mittel	media	Pándy 279	5
	medium to high	moyen à élevé	mittel bis hoch	media a alta		6
	high	élevé	hoch	alta	Favorit	7
	high to high	élevé à élevé	hoch bis sehr hoch	alta a alta	Petri	8
	very high	très élevé	sehr hoch	muy alta	Érdi jubileum	9
42.	**QN VG**	**(f)**				
	Fruit: juiciness	**Fruit : succulence**	**Frucht: Saftgehalt**	**Fruto: jugosidad**		
	very weak	très faible	sehr gering	muy débil		1
	weak	faible	gering	débil	Érdi jubileum	2
	medium	moyenne	mittel	media	Petri	3
	strong	forte	hoch	fuerte	Érdi nagygyümölcsű, Fanal	4
	very strong	très forte	sehr hoch	muy fuerte	Erika	5
43. **(*)**	**QN MG/VG**	**(f)**				
	Stone: size	**Noyau : taille**	**Stein: Größe**	**Hueso: tamaño**		
	very small	très petite	sehr klein	muy pequeño	Érdi ipari	1
	very small to small	très petite à petite	sehr klein bis klein	muy pequeño a pequeño	Erika	2
	small	petite	klein	pequeño	Stevnsbaer	3
	small to medium	petite à moyenne	klein bis mittel	pequeño a medio	Favorit, Oblachinska	4
	medium	moyenne	mittel	medio	Érdi bőtermő, Schattenmorelle	5
	medium to large	moyenne à grande	mittel bis groß	medio a grande	Petri, Porthos	6
	large	grande	groß	grande	Maliga emléke, Pándy Bb. 119	7
	large to very large	grande à très grande	groß bis sehr groß	grande a muy grande	Fanal, Nana	8
	very large	très grande	sehr groß	muy grande	Pipacs 1	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44. (*) PQ VG		**(+) (f)**				
	Stone: shape in ventral view	**Noyau : forme en vue ventrale**	**Stein: Form in Bauchansicht**	**Hueso: forma en vista ventral**		
	narrow elliptic	elliptique étroite	schmal elliptisch	elíptica estrecha	Cass, Lake	1
	medium elliptic	elliptique moyenne	mittel elliptisch	elíptica media	Csengődi, Meteor	2
	broad elliptic	elliptique large	breit elliptisch	elíptica ancha	Fanal, Maliga emléke	3
	circular	circulaire	kreisförmig	circular	Érdi jubileum, Kelleriis 16	4
45. (*) QN MG/VG			**(f)**			
	Fruit: ratio weight of fruit / weight of stone	**Fruit : rapport poids du fruit / poids du noyau**	**Frucht: Verhältnis Gewicht der Frucht / Gewicht des Steins**	**Fruto: relación peso del fruto/peso del hueso**		
	very low	très bas	sehr klein	muy baja	Oblachinska	1
	very low to low	très bas à bas	sehr klein bis klein	muy baja a baja	Cigánymeggy 59	2
	low	bas	klein	baja	Pipacs 1	3
	low to medium	bas à moyen	klein bis mittel	baja a media	Nana	4
	medium	moyen	mittel	media	Éva, Pándy Bb 119	5
	medium to high	moyen à élevé	mittel bis groß	media a alta	Kántorjánosi 3, Montmorency	6
	high	élevé	groß	alta	Érdi nagygyümölcsű	7
	high to very high	élevé à très élevé	groß bis sehr groß	alta a muy alta	Érdi jubileum	8
	very high	très élevé	sehr groß	muy alta	Érdi ipari	9
46. (*) QN MG/VG		**(+)**				
	Time of beginning of flowering	**Époque du début de la floraison**	**Zeitpunkt des Blühbeginns**	**Época del comienzo de la floración**		
	very early	très précoce	sehr früh	muy temprana	Érdi ipari	1
	very early to early	très précoce à précoce	sehr früh bis früh	muy temprana a temprana	Bianchi di Offagna, Érdi bőtermő	2
	early	précoce	früh	temprana	Favorit, Meteor korai	3
	early to medium	précoce à moyenne	früh bis mittel	temprana a media	Fanal	4
	medium	moyenne	mittel	media	Cigánymeggy 7, Vowi	5
	medium to late	moyenne à tardive	mittel bis spät	media a tardía	Érdi nagygyümölcsű	6
	late	tardive	spät	tardía	Gerema, Kelleriis 16	7
	late to very late	tardive à très tardive	spät bis sehr spät	tardía a muy tardía	Schattenmorelle	8
	very late	très tardive	sehr spät	muy tardía	Morsam	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
47. (*) QN MG/VG		**(+)**				
	Time of beginning of fruit ripening	**Époque du début de la maturité des fruits**	**Zeitpunkt des Beginns der Fruchtreife**	**Época de comienzo de la maduración del fruto**		
	very early	très précoce	sehr früh	muy temprana	Érdi ipari, Ţarina	1
	very early to early	très précoce à précoce	sehr früh bis früh	muy temprana a temprana	Érdi jubileum	2
	early	précoce	früh	temprana	Meteor korai, Piramis	3
	early to medium	précoce à moyenne	früh bis mittel	temprana a media	Érdi nagygyümölcsű	4
	medium	moyenne	mittel	media	Érdi bőtermő, Favorit	5
	medium to late	moyenne à tardive	mittel bis spät	media a tardía	Pándy 7	6
	late	tardive	spät	tardía	Kántorjánosi 3, Pándy 279	7
	late to very late	tardive à très tardive	spät bis sehr spät	tardía a muy tardía	Bianchi di Offagna	8
	very late	très tardive	sehr spät	muy tardía	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) Observations should be made during winter, on trees that have fruited at least once.

(b) Observations should be made on the middle fully developed leaves of a spur in early summer.

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

(d) Observations should be made on the fifth or sixth fully developed leaf from the base of a long shoot, during rapid growth.

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

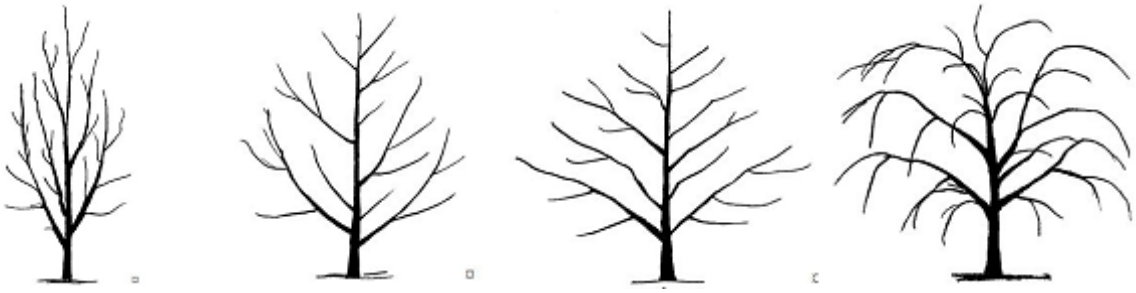
(f) Observations should be made at full maturity.

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



1 upright | 2 semi-upright | 3 spreading | 4 drooping

Ad. 3: Tree: branching

Observations should be made on scaffold branches, as the density of lateral branches and shoots, excluding fruiting shoots.

Ad. 4: Tree: bud distribution

Observations should be carried out before picking time.

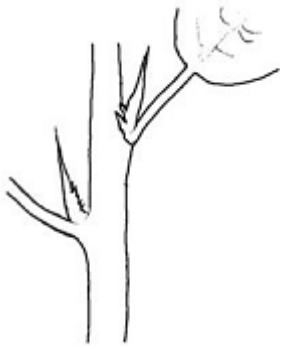
Ad. 7: One-year-old shoot: length of internode

Should be observed in the dormant period.

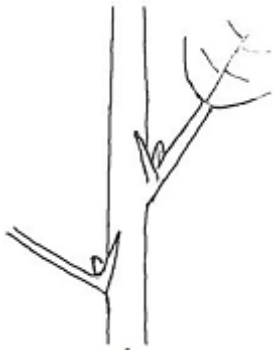
Ad. 19: Nectaries: color

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

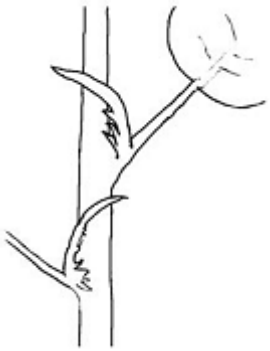
Ad. 20: Stipule: attitude



1
leaning away from shoot



2
adpressed to shoot

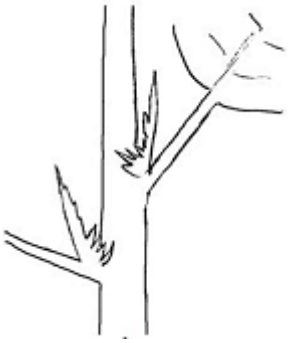


3
leaning across shoot

Ad. 22: Stipule: degree of lobing

1
absent or weak

2
medium



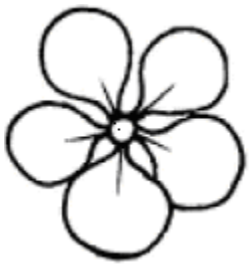
3
strong

Ad. 23: Flower: diameter

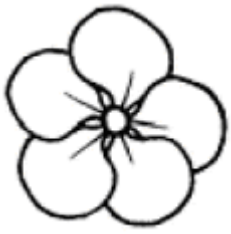
Observations should be made on completely opened flowers with petals pressed into horizontal position.

Ad. 24: Flower: arrangement of petals

1
free



2
intermediate



3
overlapping

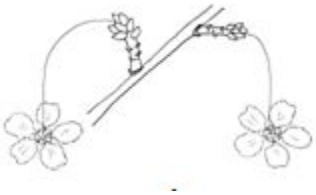
Ad. 25: Flower: shape of petal

1
circular

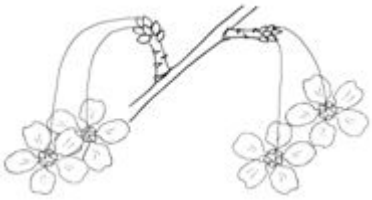
2
medium obovate

3
broad obovate

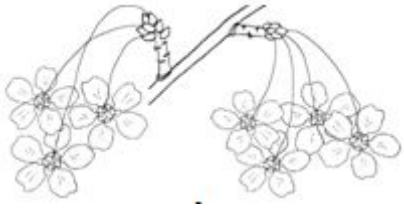
Ad. 26: Flower: arrangement



1
solitary



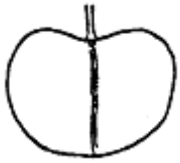
2
double



3
in clusters

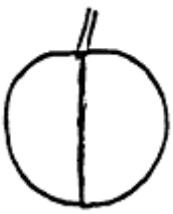
4
irregular

Ad. 28: Fruit: shape in ventral view

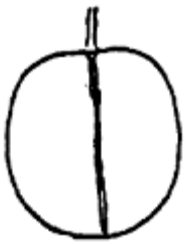


1
reniform

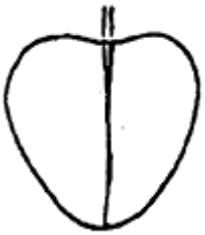
2
oblate



3
circular

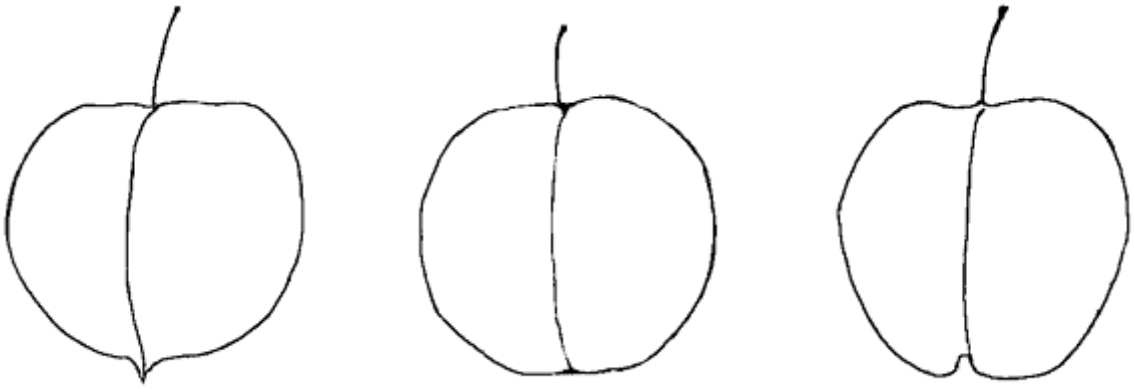


4
elliptic



5
cordate

Ad. 29: Fruit: pistil end



1
pointed

2
flat

3
depressed

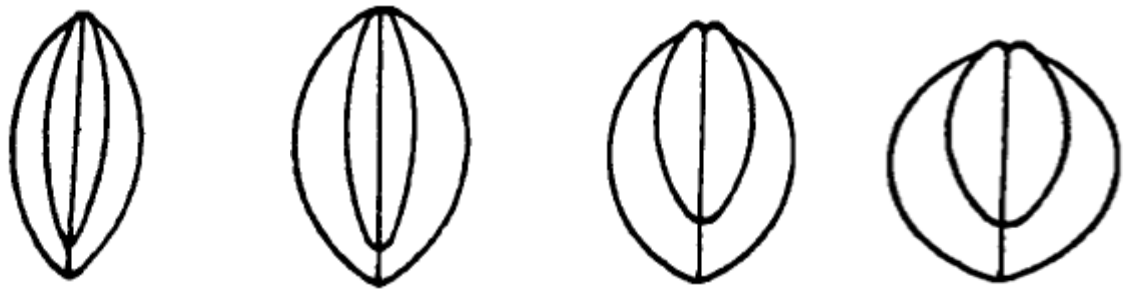
Ad. 40: Fruit: acidity

The acidity of the fruit may be observed as the titrable acidity in meq 100/ml.

Ad. 41: Fruit: sweetness

The sweetness of the fruit may be observed in degrees Brix %.

Ad. 44: Stone: shape in ventral view



1
narrow elliptic

2
medium elliptic

3
broad elliptic

4
circular

Ad. 46: Time of beginning of flowering

The time of beginning of flowering is reached when 10% of the flowers are full open.

Ad. 47: Time of beginning of fruit ripening

The time of beginning of fruit ripening is reached when 10% of the fruits are fully ripe. 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	Fanal, Gorsemkriek, Heimann 23, Heimanns Konservenkirsche, Heimanns Konservenweichsel, Nefris
Kelleriis 16	Morellenfeuer
Petri	Lövőpetri
Schattenmorelle	Black Morello, Cerise du Nord, Dubbelte Morelkers, Griotte du Nord, Griotte Noire Tardive, Große Lange Lothkirsche, Große Lange Lotkirsche, Latos meggy, Lotovka, Lutowka, Łutówka, Moreillska, Morel, Morella pozdní, Morello, Noordkrieg, Nordkirsche, Sauerlothkirsche, Skyggemorel

9. Literature

Albertini, A., 1980: Caratteristiche agro-bio-pomologiche e commerciali di cultivar di ciliegio acido meritevoli di attenzione. L'Informatore Agrario, 36: (40) 12407–12417 pp., IT.

Anonymous, 1997: The Brooks and Olmo register of new fruit and nut varieties. Third edition, ASHS Press, Alexandria, VA, US.

Boček, O., 1954: Pomologie. Státní Zemědělske Nakladatelství, Praha, CZ.

Bordeianu, T.: Constantinescu, N.; Stefan, N., 1965: Pomologia Republicii Populare Romîne. Vol. IV, Editura Academiei Republicii Populare Romîne, Bucuresti, RO.

Brózik S. – Kállay T-né 2000: Csonthéjas gyümölcsfajták; Mezőgazda Kiadó, ISBN 963 9239 69 0

Cifranič, P., Hričovský, I., Hnídzik, F., Župník, M., 1978: Pomologia. Priroda, Bratislava, SK.

Götz, G., 1970: Süß- und Sauerkirschen. Ulmer Verlag, Stuttgart, DE.

Götz, G., Silbereisen, R., 1989: Obstsorten-Atlas, Kernobst, Steinobst, Beerenobst, Schalen-obst, Verlag Eugen Ulmer, Stuttgart, DE.

G. Tóth M., 1997. Gyümölcsészet (Pomology). PRIMOM, Nyíregyháza, HU.

Krümmel, H., Groh, W., Friedrich, G., 1964: Deutsche Obstsorten. Bd. 1-3. Deutscher Landwirtschaftsverlag, Berlin, DE.

Leroy, A., 1877: Dictionnaire de Pomologie, Fruits a noyau, Cerise, Tome V, 127 varietes, 280 pp., FR.

Nyéki J. – Szabó T. – Soltész M., 2016: MEGGY (Sour cherry); IMI Print Nyomda, Nyíregyháza; ISBN 978-963-12-6523-1

Pochyba, D., Hričovský, I., Cifranič, P., 1964: Pomologia, Slov. Vyd. Polnohosp. Lit., Bratislava, SK.

Rayman, J., Tomcsányi, P., 1964: Gyümölcsfajták zsebkönyve. Almagyümölcsűek és csonthéjasok (Pocket manual of fruit varieties 1.). Mezőgazdasági Kiadó, Budapest, HU.

Shepelskij, A. I., 1966: Novye sorta plodovykh i yagodnykh kul'tur Ukrain (New fruit varieties of Ukraine). Urozhai, Kiev, UA.

Simirenko, L. P., 1963: Pomologiia. Vol.`1-3. Izd S/h. Lit. Ukr. SSR, Kiev, UA.

Sinskaya, E. N., 1949: Kulturnaya flora SSSR. XVIII. Plodovye kostochkovye (Cultivated plants of USSR. Stone fruits)". OGIZ-Sel'khozgiz, Moskva-Leningrad, RU.

Smirnov, V. F., 1972: Novye sorta kostochkovykh kul'tur, vyvedennye v SSSR (New stone fruit varieties bred in USSR). Izdatel'stvo Nauka, Moskva, RU.

Smykov, V. K., Bespechal'naya, V. V., 1974: Kostochkovye kul'tury (Stone fruits). Izdatel'stvo Kartya Moldovenyaske, Kishinev, MD

Stoichkov, J., Velkov, V., 1960: B''lgarska pomologiya (Bulgarian Pomology). Zemizdat, Sofia, BG.

Tomcsányi, P., Bödecs, L., Faluba Z., Harsányi L., Majoros L., 1979: Gyümölcsfajtáink, Gyakorlati pomológia (Practical Pomology). Mezőgazdasági Kiadó, Budapest, HU.

10. Technical Questionnaire

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

	Application date: (not to be filled in by the applicant)

TECHNICAL QUESTIONNAIRE
to be completed in connection with an application for plant breeders' rights

1. Subject of the Technical Questionnaire

1.1.1	Botanical name	*Prunus cerasus* L.	[ ]
1.1.2	Common name	Sour cherry, Tart cherry, Morello	
1.2.1	Botanical name	*Prunus* ×*gondouinii* (Poit. & Turpin) Rehder	[ ]
1.2.2	Common name	Duke cherry	
1.3.1	Botanical name	*P. avium* L. x *P. cerasus* L	[ ]
1.3.2	Common name		

2. Applicant

Name	
Address	
Telephone No.	
Fax No.	
E-mail address	
Breeder (if different from applicant)	

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

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

[#]4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]

(please state parent variety)

(……..……..…) x (……..……..…)

female parent male parent

(b) partially known cross [ ]

(please state known parent variety(ies))

(……..……..…) x (……..……..…)

female parent male parent

(c) unknown cross [ ]

4.1.2 Mutation [ ]
(please state parent variety)

4.1.3 Discovery and development [ ]
(please state where and when discovered and how developed)

4.1.4 Other [ ]
(Please provide details)

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) Budding or grafting [ ]
(b) Other (state method) [ ]

4.2.2 Other [ ]
(Please provide details)

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
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 [ ]

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

	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:

6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the **similar** variety(ies)	Describe the expression of the characteristic(s) for **your** candidate variety
Example	*Fruit: size*	*small*	*large*

Comments:

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

[#]7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [ ] No [ ]

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [ ] No [ ]

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire.

The key points to consider when taking a photograph of the candidate variety are:

- Indication of the date and geographic location
- Correct labeling (breeder's reference)
- Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)"

Further guidance on providing photographs with the Technical Questionnaire is available in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/).

[The link provided may be deleted by members of the Union when developing authorities' own test guidelines.]

[#] Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference 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. Information on plant material to be examined or submitted for examination

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 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 the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

(a)	Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes [ ]	No [ ]
(b)	Chemical treatment (e.g. growth retardant, pesticide)	Yes [ ]	No [ ]
(c)	Tissue culture	Yes [ ]	No [ ]
(d)	Other factors	Yes [ ]	No [ ]

Please provide details for where you have indicated “yes”.

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant’s name

Signature Date

[End of document]