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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

## APRICOT

UPOV Code(s): PRUNU\_ARM

*Prunus armeniaca* L.

## 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-second session, to be held in Zhengzhou, China,  
from 2021-07-12 to 2021-07-16*

*Disclaimer: this document does not represent UPOV policies or guidance*

Alternative names:\*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Prunus armeniaca</i> L.	Apricot	Abricotier	Aprikose, Marille	Albaricoquero, Chabacano

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](http://www.upov.int)), for the latest information.]

TABLE OF CONTENTS	PAGE
1. SUBJECT OF THESE TEST GUIDELINES.....	<a href="#">3</a>
2. MATERIAL REQUIRED.....	<a href="#">3</a>
3. METHOD OF EXAMINATION.....	<a href="#">3</a>
3.1 Number of Growing Cycles.....	<a href="#">3</a>
3.2 Testing Place.....	<a href="#">3</a>
3.3 Conditions for Conducting the Examination.....	<a href="#">4</a>
3.4 Test Design.....	<a href="#">5</a>
3.5 Additional Tests.....	<a href="#">5</a>
4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY.....	<a href="#">5</a>
4.1 Distinctness.....	<a href="#">5</a>
4.2 Uniformity.....	<a href="#">6</a>
4.3 Stability.....	<a href="#">6</a>
5. GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL.....	<a href="#">8</a>
6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS.....	<a href="#">8</a>
6.1 Categories of Characteristics.....	<a href="#">8</a>
6.2 States of Expression and Corresponding Notes.....	<a href="#">8</a>
6.3 Types of Expression.....	<a href="#">9</a>
6.4 Example Varieties.....	<a href="#">9</a>
6.5 Legend.....	<a href="#">10</a>
7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.....	<a href="#">11</a>
8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.....	<a href="#">36</a>
8.1 Explanations covering several characteristics.....	<a href="#">36</a>
8.2 Explanations for individual characteristics.....	<a href="#">38</a>
8.3 Synonyms of example varieties.....	
9. LITERATURE.....	<a href="#">51</a>
10 TECHNICAL QUESTIONNAIRE.....	<a href="#">52</a>

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Prunus armeniaca* L. for fruit production. For the examination of rootstock varieties, the Test Guidelines for Prunus Rootstock TG/187 should be applied.

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:

(a) varieties resulting from crossings  
3 trees (one-year-old grafts) or  
3 budsticks or dormant shoots

(b) varieties resulting from mutations  
9 trees (one-year-old grafts) or  
9 budsticks or dormant shoots

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 trees 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*

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.

### 3.4 *Test Design*

- 3.4.1 Varieties resulting from crossing: Each test should be designed to result in a total of at least 3 trees.  
Varieties resulting from mutation: Each test should be designed to result in a total of at least 9 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

In the case of varieties resulting from crossing, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 3 plants or parts taken from each of 3 plants and any other observation 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 5.

In the case of varieties resulting from mutation, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 8 plants or parts taken from each of 8 plants and any other observation 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 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 3 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 3 plants, no off-types are allowed. For the assessment of uniformity in a sample of 9 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 9 plants, 1 off-type(s) is/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) Petal: color (characteristic 27)
  - (b) Fruit: weight (characteristic 29)
  - (c) Fruit: shape in lateral view (characteristic 30)
  - (d) Fruit: ground color of skin (characteristic 46)
  - (e) Fruit: relative area of over color (characteristic 49)
  - (f) Fruit: color of flesh (characteristic 51)
  - (g) Time of beginning of flowering (characteristic 58)
  - (h) Time of beginning of fruit ripening (characteristic 59)
- 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)-(d) See Explanations on the Table of Characteristics in Chapter 8.1
- 7 Not applicable

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

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. (*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Tree: vigor</b>							
		very weak					Sub-zero	1
		weak					Ninfa, Polonais, Rustic	2
		medium					Bergeron, Canino, Peeká, Rouge du Roussillon	3
		strong					Earle Orange, Magyar kajszí, Palsteyn, Pisana, Portici	4
		very strong					Monaco Bello, Moniquí, Solitaire, Viceroy	5
<b>2. (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Tree: habit</b>							
		fastigate					Japan's Early	1
		upright					Harcot, Primando, Reale d'Imola	2
		upright to spreading					Ceglédi óriás, Paz, Proimo Tyrinthos, Veecot	3
		spreading					Blenheim, Canino, Grandir, Hargrand, Magyar kajszí	4
		drooping					Palsteyn, Pisana, Polonais, Vesna	5
<b>3.</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Tree: number of branches</b>							
		few					Earle Orange, Roxana	1
		few to medium					Ceglédi zamatos	2
		medium					Bergeron, Magyar kajszí, San Castrese	3
		medium to many					Ceglédi napsugár	4
		many					Harlayne, Prevete, Roxy, Veecot	5
<b>4. (*)</b>	<b>QN</b>	<b>VG</b>		<b>(a)</b>				
	<b>Tree: distribution of flower buds</b>							
		predominantly on spurs					Earle Orange, Nugget, Roxy, Royal Roussillon, Sun Glo	1
		equally on spurs and on one-year-old shoots					Bergeron, Bulida, Canino, San Castrese, Veecot	2
		predominantly on one-year-old shoots					Amal, Ouardi, Rosa, Roxana	3



	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>5.</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>One-year-old shoot: color on sunny side</b>							
	yellow brown						Cape Bebeco, Grandir	1
	red brown						Palsteyn, Polonais, Royal, Veecot	2
	purple brown						Blenheim, Harcot	3
<b>6.</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>One-year-old shoot: size of bud support</b>							
	small						Canino, Cape Bebeco, Harcot, Vitillo	1
	medium						Hargrand, Magyar kajszai, Palsteyn, Portici, Tri Gems	2
	large						Ceglédi arany, Himidi, Moniquí, Roxana, Suapriseven	3
<b>7. (*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>					
	<b>Young shoot: intensity of anthocyanin coloration of apex</b>							
	very weak						Anderheart	1
	very weak to weak							2
	weak						Blenheim, Hargrand, Paz, Perla, Samarkandskij rannij	3
	weak to medium						Ceglédi szilárd, Mambo	4
	medium						Cape Bebeco, Polonais, San Castrese, Sun Glo	5
	medium to strong						Ceglédi gömbölyű, Samourai	6
	strong						Ceglédi bíbor, Harcot, Ladisun, Ohaicos, Ravival, Roxana	7
	strong to very strong							8
	very strong						Rojo Passion	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>8.</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(b)</b>			
	<b>Leaf blade: length</b>					
	short				Bulida, Early Biady, Perla, Samarkandskij rannij	3
	short to medium				Ceglédi bájós	4
	medium				Canino, Portici, Rouge du Roussillon, Veecot	5
	medium to long				Clarina, Lunafull	6
	long				A. Vecchioni, Calirose, Ceglédi arany, Moniquí, Roxana	7
	long to very long				César, Koolgat	8
<b>9.</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(b)</b>			
	<b>Leaf blade: width</b>					
	very narrow				Hurgat	1
	very narrow to narrow				Koolgat	2
	narrow				Ceglédi bíbor, Monaco Bello, Rouget de Sernhac, Veecot	3
	narrow to medium				Ceglédi napsugár, Nyujtó Ferenc emléke	4
	medium				Canino, Cape Bebeco, Harcot, Vitillo	5
	medium to broad					6
	broad				Ceglédi piroska, Moniquí, Pisana	7
<b>10 (*)</b>	<b>QN</b>	<b>MG/VG</b>	<b>(b)</b>			
	<b>Leaf blade: ratio length/width</b>					
	very low				Canino, Portici	1
	very low to low				Ceglédi bájós	2
	low				Cafona, Hargrand, Supergold	3
	low to medium				Ceglédi szilárd	4
	medium				Harcot, Rouget de Sernhac, Rustic, San Castrese	5
	medium to high				Ceglédi napsugár	6
	high				A. Vecchioni, Big Cot, Ceglédi bíbor, Colorado	7
	high to very high				Titicot	8
	very high				Calirose, Koolgat, Noemi, Super Seven	9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>11</b>	<b>QN</b>	<b>VG</b>	<b>(b)</b>				
	<b>Leaf blade: intensity of green color of upper side</b>						
	light					Roxy, San Castrese, Veecot, Velasquez	1
	light to medium						2
	medium					Canino, Ceglédi óriás, Flaming Gold, Grandir, Harcot	3
	medium to dark					Roxana	4
	dark					A. Vecchioni, Earle Orange, Ninja	5
<b>12</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(b)</b>			
	<b>Leaf blade: shape of base</b>						
	acute					Ceglédi bíbor, Rouget de Sernhac, San Francesco	1
	obtuse					Bhart, Calirose, Magyar kajszí, Portici	2
	truncate					Bergeron, Blenheim, Canino, Perla	3
	cordate					Bulida, Monabri, Moniquí	4
<b>13</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(b)</b>			
	<b>Leaf blade: angle of apex</b>						
	acute					Koolgat, San Castrese	1
	right-angled					Bulida, Canino, Ceglédi óriás	2
	moderately obtuse					Bergeron, Farclo, Polonais, Portici	3
	strongly obtuse					Hargrand, Moniquí	4

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(b)</b>				
	<b>Leaf blade: length of tip</b>							
	absent or very short						Alpha	1
	very short to short						Vemina	2
	short						Amber Gold, Bhart, Harmat, Moniquí	3
	short to medium						Rambo	4
	medium						Koolgat, Magyar kajszí, Roxy	5
	medium to long						Nyujtó Ferenc emléke, Oscar	6
	long						Calirose, Fina, Ivonne Liverani, Memphis, Roxana	7
	long to very long						Playa Cot	8
<b>15 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(b)</b>				
	<b>Leaf blade: incisions of margin</b>							
	crenate						Canino, Royal Roussillon, San Castrese, Verdun	1
	bicrenate						Bhart, Ninfa	2
	serrate						Calirose, Vitillo	3
	biserrate						Farius, Himidi, Rakovszky, Roxana, San Francesco, Suapriseven	4
<b>16</b>	<b>QN</b>	<b>VG</b>		<b>(b)</b>				
	<b>Leaf blade: undulation of margin</b>							
	absent or very weak						Colomer, Earle Orange	1
	weak						Harcot, Palsteyn, Portici	2
	medium						Blenheim, Cape Bebeco, Nonno, Roxana	3
	strong						Piet Cillié, Polonais, San Francesco	4
	very strong							5
<b>17</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(b)</b>				
	<b>Leaf blade: profile in cross section</b>							
	slightly convex						Megatea	1
	flat or weakly concave						Earle Orange, Rouget de Sernhac, San Castrese	2
	moderately concave						Bergeron, Dulcinea, Moniquí, Rustic	3
	strongly concave						Polonais	4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>18</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(b)</b>		
	<b>Petiole: length</b>					
	very short					1
	very short to short				Cyrano	2
	short				Cape Bebeco, Madison, Moniquí, Ninfa, Veecot	3
	short to medium				Ceglédi bájós, Ceglédi gömbölyű, Koolgat	4
	medium				Bergeron, Bulida, Cafona, Canino, Hargrand	5
	medium to long				Ceglédi napsugár, Nyujtó Ferenc emléke, Samourai, Totem	6
	long				Banzaï, Ladisun, Reale d'Imola, Skopska Krupna	7
	long to very long					8
	very long				HG n°1	9
<b>19</b>	<b>(*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(b)</b>	
	<b>Leaf: ratio length of blade /length of petiole</b>					
	low				Earle Orange, Harcot, Pisana, Rouget de Sernhac	3
	low to medium				Apache, Banzaï	4
	medium				Bergeron, Calirose, Hâtif Colomer, Portici, Rouge du Roussillon	5
	medium to high				Koolgat	6
	high				Monaco Bello, Moniquí	7
<b>20</b>		<b>QN</b>	<b>VG</b>		<b>(b)</b>	
	<b>Petiole: thickness</b>					
	thin				Flaming Gold, San Castrese, Veecot	1
	medium				Bulida, Harcot, Portici	2
	thick				Ceglédi arany, Moniquí, Reale d'Imola	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>21</b>	<b>QN</b>	<b>VG</b>	<b>(b)</b>				
	<b>Petiole: intensity of anthocyanin coloration of upper side</b>						
	absent or very weak						1
	weak					Cibo del Paradiso, Tri Gems	3
	weak to medium					Sublime	4
	medium					Bhart, Canino, Cape Bebeco, San Castrese	5
	medium to strong					Ninja, Oscar	6
	strong					Ceglédi bíbor, Early Biady, Grandir, Harogem	7
	strong to very strong					Cheyenne	8
<b>22 (*)</b>	<b>QN</b>	<b>MG/VG</b>	<b>(+)</b>	<b>(b)</b>			
	<b>Petiole: number of nectaries</b>						
	none or one					Colorado, Mandulakajsi, Rouget de Sernhac	1
	two or three					Banzaï, Cafona, Magyar kajsi, Ninja, Primarina, Veecot	2
	more than three					Bulida, Canino, Cape Bebeco, Moniquí, Pisana	3
<b>23</b>	<b>QN</b>	<b>VG</b>	<b>(b)</b>				
	<b>Petiole: size of nectaries</b>						
	small					Alpha, Calirose, Colorado, Madison, San Francesco, Yerevani	1
	medium					Bulida, Ceglédi óriás, Samouraï, San Castrese, Tilton	2
	large					Canino, Early Biady, Harmat, Pisana, Red Blush	3
<b>24 (*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(c)</b>				
	<b>Flower: diameter</b>						
	small					Borsi rózsza, Hâtif Colomer, Supergold	1
	small to medium						2
	medium					Calirose, Magyar kajsi, Polonais, Portici, Reale d'Imola	3
	medium to large					Ceglédi arany	4
	large					Hargrand, Harmat, San Castrese	5

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>25</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(c)</b>				
	<b>Flower: position of stigma relative to anthers</b>							
	below						Canetta, Harmat, Rouge du Roussillon	1
	same level						Hargrand, Palsteyn, Portici	2
	above						Canino, Grandir, Pisana, Polonais	3
<b>26</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(c)</b>				
	<b>Petal: shape</b>							
	elliptic						Rubilis	1
	circular						Faralia, Harcot, Luizet	2
	oblate						Canino, Polonais, Rustic, Vitillo	3
<b>27 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(c)</b>				
	<b>Petal: color</b>							
	white						Bulida, Cafona, Polonais	1
	pinkish white						Magyar kajszí, San Castrese	2
	light pink						Harcot	3
	dark pink						Cheyenne, Ninja	4
<b>28</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>					
	<b>Sepal: attitude</b>							
	upwards						Ladisun	1
	outwards						Calirose, Colomer, Farbaly	2
	downwards						Bergeron, Cape Bebeco	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>29</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: weight</b>						
		very small					Haggith, Menace, Supergold, Tengeribarack C. 1426, Zard	1
		very small to small					Tengeribarack C. 2546	2
		small					Borsi rózsa, Hâtif Colomer, Ladisun, Patriarca Temprano	3
		small to medium					Val orange	4
		medium					Cafona, Canino, Harcot, Paz	5
		medium to large					Iziagat, Oscar	6
		large					Ceglédi bíbor, Moniquí, Portici	7
		large to very large					Swilate	8
		very large					Ceglédi óriás, Flamengo, Hargrand, Palsteyn, Pisana	9
<b>30</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: shape in lateral view</b>						
		triangular					Gilgat, Luizet	1
		ovate					Bergeron, Calirose, Pisana	2
		oblate					Korai zamatos, Nugget, Patriarca Temprano	3
		circular					Earle Orange, Grandir, Ninfa, Ouardí, Polonais	4
		oblong					Blenheim, Portici, Sundrop	5
		elliptic					Précoce d'Imola, Wenatchee, Yerevani	6
		oblique rhombic					Banga, Bulida, Canino, Vulcan	7
		obovate					Harcot, Harmat, Trevatt	8



	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>31</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: shape in ventral view</b>						
		triangular					Gilgat, Luizet, Mandulakajsi, Reale d'Imola	1
		ovate					Bergeron, Calirose, Canino, Fracasso	2
		oblate					Nugget	3
		circular					Polonais, Rouge du Roussillon, San Castrese, Supergold, Viceroy	4
		oblong					Baracca, Hargrand, Hâtif Colomer, Veecot	5
		elliptic					Bella d'Imola, Flaming Gold, Yerevani	6
		obovate					Harcot, Harmat, Ladisun, Portici	7
<b>32</b>		<b>QN</b>	<b>MG/VG</b>		<b>(d)</b>			
		<b>Fruit: height</b>						
		very short					Tengeribarack C. 1426	1
		very short to short					Tengeribarack C. 2546	2
		short					Patriarca Temprano, Samarkandskij rannij, Sayeb, Supergold	3
		short to medium					Val orange	4
		medium					Bergeron, Canino, Cape Bebeco, Polonais	5
		medium to tall					Ceglédi kedves, Ceglédi napsugár, Cheyenne, Iziagat	6
		tall					Calirose, Goldrich, Mandulakajsi, Vitillo	7
		tall to very tall					Flamengo	8

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>33</b>	<b>QN</b>	<b>MG/VG</b>	<b>(d)</b>			
	<b>Fruit: width in lateral view</b>					
	very narrow				Tengeribarack C. 1426	1
	very narrow to narrow				Tengeribarack C. 2546	2
	narrow				Cerasiello, Harmat, Manicot, Samarkandskij rannij, Supergold	3
	narrow to medium				Apriveve	4
	medium				Bergeron, Bhart, Cafona, Paz	5
	medium to broad				Ceglédi kedves, Ceglédi szilárd, Swilate	6
	broad				Hargrand, Moniquí, Sherpa, Vitillo	7
<b>34</b>	<b>QN</b>	<b>MG/VG</b>	<b>(d)</b>			
	<b>Fruit: width in ventral view</b>					
	very narrow				Tengeribarack C. 1426	1
	very narrow to narrow				Tengeribarack C. 2546	2
	narrow				Cerasiello, Harlayne, Hâtif Colomer, Tri Gems	3
	narrow to medium				Ceglédi zamatos, Swired	4
	medium				Bhart, Cape Bebeco, Palummella	5
	medium to broad				Ceglédi gömbölyű, Swilate	6
	broad				Ceglédi arany, Flamengo, Goldrich, Moniquí	7
<b>35</b>	<b>QN</b>	<b>MG/VG</b>	<b>(d)</b>			
	<b>Fruit: ratio height /ventral width</b>					
	low				Korai zamatos, Patriarca Temprano, Peeka	3
	low to medium				Ceglédi bájós	4
	medium				Cafona, Canino, Magyar kajszi, Rouge du Roussillon, Solitaire	5
	medium to high				Ceglédi napsugár, Cheyenne, Monaco Bello	6
	high				Bergeron, Hâtif Colomer, Tri Gems, Vitillo	7
	high to very high				Elgat, Lido	8
	very high				Farbella	9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>36</b>	<b>(*)</b>	<b>QN</b>	<b>MG/VG</b>	<b>(d)</b>			
		<b>Fruit: ratio lateral width/ventral width</b>					
		very low				Monaco Bello	1
		very low to low				Lameda	2
		low				Mandorlon, Maria Ferez, Rustic, Vesna	3
		low to medium				Ceglédi napsugár, Nyujtó Ferenc emléke	4
		medium				Bergeron, Luizet, Pisana, Rouge du Roussillon	5
		medium to high				Apriveve, Ceglédi zamatos	6
		high				Borsi rózsa, Calicot, Henderson, IPS 660, Swired	7
		high to very high				Titicot, Tudor	8
		very high					9
<b>37</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>		
		<b>Fruit: symmetry in ventral view</b>					
		symmetric				Canino, Hâtif Colomer, Magyar kajszí, Paz, Polonais, Portici	1
		slightly asymmetric				Boccuccia, Calirose, Ceglédi óriás, Meligat, Royal	2
		strongly asymmetric				Borsi rózsa, Grandir, Milord, Reale d'Imola	3
<b>38</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>		
		<b>Fruit: suture</b>					
		raised				Priboto	1
		slightly sunken				Calirose, Magyar kajszí, Ninfa, Rouge du Roussillon	2
		moderately sunken				Bergeron, Ladisun, Monaco Bello, Pineapple	3
		strongly sunken				Cape Bebeco, Dima, Henderson, Kech-pshar, Portici	4

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>39</b>	<b>QN</b>	<b>VG</b>	<b>(d)</b>				
	<b>Fruit: depth of stalk cavity</b>						
	shallow					Harlayne, Peeka, Rouge du Roussillon, San Castrese	1
	shallow to medium						2
	medium					Blenheim, Grandir, Magyar kajsz, Vitillo	3
	medium to deep					Roxana	4
	deep					Banzaï, Canino, Ceglédi óriás, Hâtif Colomer, Kayzee, Palsteyn	5
<b>40 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Fruit: shape of apex in lateral view</b>						
	acute					Hula Blush, Mandulakajsz, Reale d'Imola	1
	rounded					Bergeron, Calirose, Goldrich, Luizet, Portici	2
	truncate					Bella d'Imola, Hargrand, Hâtif Colomer, Royal	3
<b>41</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Fruit: shape of pistil end in lateral view</b>						
	pointed					Mediabel	1
	flat					Farbaly	2
	weakly depressed					Suapriseven	3
	strongly depressed					Primaya	4
<b>42 (*)</b>	<b>QL</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Fruit: presence of mucron</b>						
	absent					Blenheim, Bulida, Canino, San Castrese	1
	present					Bhart, Pisana	9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>43</b>	<b>PQ</b>	<b>VG</b>	<b>(d)</b>				
	<b>Fruit: surface</b>						
	smooth					Bergeron, Ninja, Palsteyn, Portici, Rouge du Roussillon	1
	slightly bumpy					Cape Bebeco, Oscar, Supergold	2
	moderately bumpy					Canino, Ceglédi óriás, Faralia, Nonno, Sherpa	3
	very bumpy					Lotte, Rosa	4
<b>44 (*)</b>	<b>QL</b>	<b>VG</b>	<b>(d)</b>				
	<b>Fruit: pubescence</b>						
	absent					Badami, Glattschalige Frühmarille	1
	present					Bergeron, Bulida, Canino, Magyar kajsi	9
<b>45</b>	<b>QN</b>	<b>VG</b>	<b>(d)</b>				
	<b>Fruit: glossiness</b>						
	absent or weak					Rouge du Roussillon	1
	medium					Harcot, Oscar	2
	strong					Lotte, Maravilla, Sun Glo	3
<b>46 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Fruit: ground color of skin</b>						
	not visible					Ravicille, Ravilong	1
	white					San Nicola, Shirazskij belyj	2
	yellowish					Piet Cillié, Soldonné, Vitillo, Yerevani	3
	yellow green					Grüne Spätmarille, Kaisi Ashtarak, Roxy, Sateni Karmir	4
	light orange					Canino, Goldcot, Hargrand, Portici, Rouge du Roussillon	5
	medium orange					Calirose, Hâtif Colomer, Luizet, Pisana, Veecot	6
	dark orange					Bhart, Harcot, Harogem	7

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>47</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: hue of over color</b>						
		orange red					Cape Bebeco, Kayzee	1
		red					Bhart, Faralia	2
		pink					Colorado, Palsteyn, Rustic	3
		purple					Rubissia, Totem	4
<b>48</b>		<b>QN</b>	<b>VG</b>		<b>(d)</b>			
		<b>Fruit: intensity of over color</b>						
		light					Big Cot, Ceglédi napsugár	3
		light to medium					IPS 16121	4
		medium					Calirose, Swilate	5
		medium to dark						6
		dark					Flash Cot, Primarina	7
		dark to very dark					Rubely	8
		very dark					Apridelice	9
<b>49</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: relative area of over color</b>						
		absent or very small					Ceglédi gömbölyű, Charisma, Maria Matilde, Moniquí, Yerevani	1
		absent or very small to small						2
		small					Cafona, Canino, Cape Bebeco, Goldrich	3
		small to medium					Ceglédi kedves	4
		medium					Hâtif Colomer, Magyar kajszi, Palsteyn, Portici, Roxy	5
		medium to large					Ceglédi szilárd	6
		large					Bergeron, Bhart, Golden Blush, Pisana	7
		large to very large					Cheyenne	8
		very large					Ravicille, Ravilong	9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>50</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Fruit: pattern of over color</b>						
		isolated spots					Big Cot, Margotina, Rouge du Roussillon	1
		solid flush					Bergeron, Cape Bebeco, Ninja	2
		covered all over with very small spots					Grandir, Moniquí, Pieve	3
<b>51</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>		<b>(d)</b>			
		<b>Fruit: color of flesh</b>						
		white					Cibo del Paradiso, Mouchbah Mourry, Spitak	1
		whitish green					Amban	2
		yellowish white					Barese, Malatya, Moniquí, Patriarca Temprano	3
		light orange					Canino, Cape Bebeco, Harmat, San Castrese, Yerevani	4
		medium orange					Grandir, Harglow, Pisana, Rouge du Roussillon, Screara	5
		dark orange					Bhart, Francese, Harcot, Hâtif Colomer, Palsteyn	6
		red						7
<b>52</b>		<b>QN</b>	<b>VG</b>		<b>(d)</b>			
		<b>Fruit: texture of flesh</b>						
		fine					Fracasso, Harlayne, Koolgat, Peeká	1
		medium					Canino, Cape Bebeco, Magyar kajsi, Piet Cillié	2
		coarse					Bergeron, Précoce d'Imola	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>53</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(+)</b>	<b>(d)</b>				
	<b>Fruit: firmness of flesh</b>							
		very soft					Viceroy	1
		soft					Alessandrino, Goldcot, Grandir	3
		medium					Cape Bebeco, Magyar kajsi, Piet Cillié, Rouge du Roussillon, San Castrese	5
		firm					Bella d'Imola, Bergeron, Palsteyn, Suapriseven	7
		very firm					Boccuccia Liscia, Borsi rózsa, Cacansko zlato, Harogem	9
<b>54</b>	<b>QN</b>	<b>MG</b>		<b>(d)</b>				
	<b>Fruit: ratio weight of fruit/weight of stone</b>							
		low					Borsi rózsa, Reale d'Imola	3
		low to medium					Ceglédi zamatos	4
		medium					Blenheim, Hâtif Colomer, Portici, Primaya	5
		medium to high					Ceglédi napsugár	6
		high					Badami, Bergeron, Hula Blush, San Castrese	7
		high to very high					Hollycot	8
		very high					Flamengo	9
<b>55 (*)</b>	<b>QN</b>	<b>VG</b>		<b>(d)</b>				
	<b>Fruit: adherence of stone to flesh</b>							
		absent or very weak					Bergeron, Bhart, Hargrand, Ninfa, Peeka	1
		very weak to weak					Canino, Nonno, Paz, Rouge du Roussillon, Sirena	2
		medium					Ceglédi arany, Tardif de Bordaneil	3
		medium to strong					Ceglédi napsugár	4
		strong					Cafona, Comandor, Flamengo, Precoce di Toscana	5



	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>56</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Stone: shape in lateral view</b>						
		ovate					Goldcot, Grandir, Magyar kajszi, Portici	1
		circular					Canino, Eten Bey, Hargrand, Monaco Bello, Suaprieight	2
		elliptic					Bergeron, Vitillo	3
		oblong					Bella d'Imola, Calirose, Palsteyn, Rouge du Roussillon	4
		obovate					Harcot, Harmat	5
<b>57</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
		<b>Kernel: bitterness</b>						
		absent or weak					Bergeron, Harcot, Magyar kajszi, Orange Red, Reale d'Imola	1
		medium					Bella d'Imola, Harlayne, Ninja, Palsteyn, Suaprieight, Swired	2
		strong					Borsi rózsa, Canino, Colorado, Manicot, Memphis, Prevete, Samourai, Supergold	3
<b>58</b>	<b>(*)</b>	<b>QN</b>	<b>MG/VG</b>	<b>(+)</b>				
		<b>Time of beginning of flowering</b>						
		very early					Bakour, Colorado, Currots, Harmat, Ninfa, Solitaire	1
		very early to early					Rambo	2
		early					Canino, Harcot, Hâtif Colomer, San Castrese	3
		early to medium					Ceglédi szilárd, Goldrich	4
		medium					Bhart, Magyar kajszi, Moniquí, Portici, San Francesco, Supergold	5
		medium to late					Ceglédi zamatos, Digat	6
		late					Bergeron, Boccuccia Liscia, Farius, Harlayne, Ladisun, Polonais	7
		late to very late					Hurgat	8
		very late					Badami, Harglow, Skromnyj, Stella, Zard	9

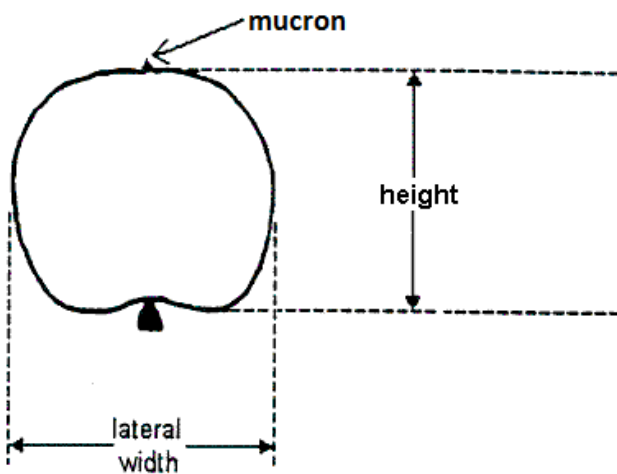
	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
59	(*)	QN	MG/VG	(+)			
		<b>Time of beginning of fruit ripening</b>					
		very early				Bakour, Ninfa, Patriarca Temprano, Rutbhart, Samarkandskij rannij	1
		very early to early				Monabri, Tsunami	2
		early				Bhart, Hâtif Colomer, Ladisun, Monaco Bello, Rouget de Sernhac, Tomcot	3
		early to medium				Goldrich, Hargrand, Magyar kajszí	4
		medium				Amber Gold, Bergeron, Harlayne, Pisana, Polonais	5
		medium to late				Anegat, Swired	6
		late				Faralia, Larquen	7
		late to very late				Fartoli	8
		very late				Farclo, Farlis, Lartago	9

8. Explanations on the Table of Characteristics

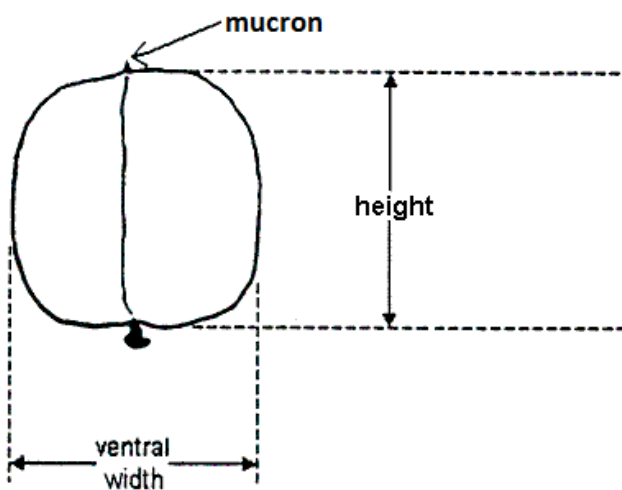
8.1 *Explanations covering several characteristics*

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

- (a) Observations should be made during the dormant period and before the beginning of flowering, on trees that have fruited at least once.
- (b) Observations should be made on fully developed leaves from the middle third of a well developed current season's long shoot.
- (c) Observations should be made on fully developed flowers at the beginning of dehiscence.
- (d) **Lateral view**



Ventral view

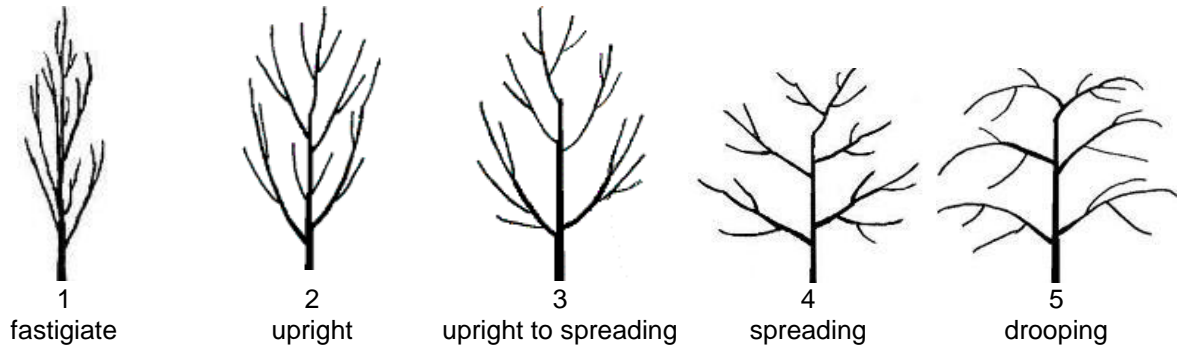


## 8.2 Explanations for individual characteristics

### Ad. 1: Tree: vigor

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

### Ad. 2: Tree: habit



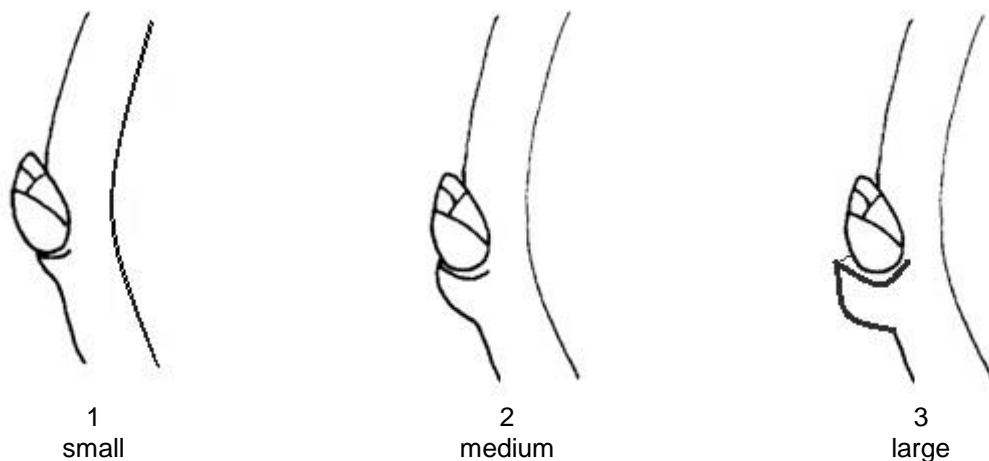
### Ad. 3: Tree: number of branches

Observations should relate to the number of lateral branches and shoots, excluding spurs.

### Ad. 5: One-year-old shoot: color on sunny side

Observations should be made in the middle of one-year-old primary shoots.

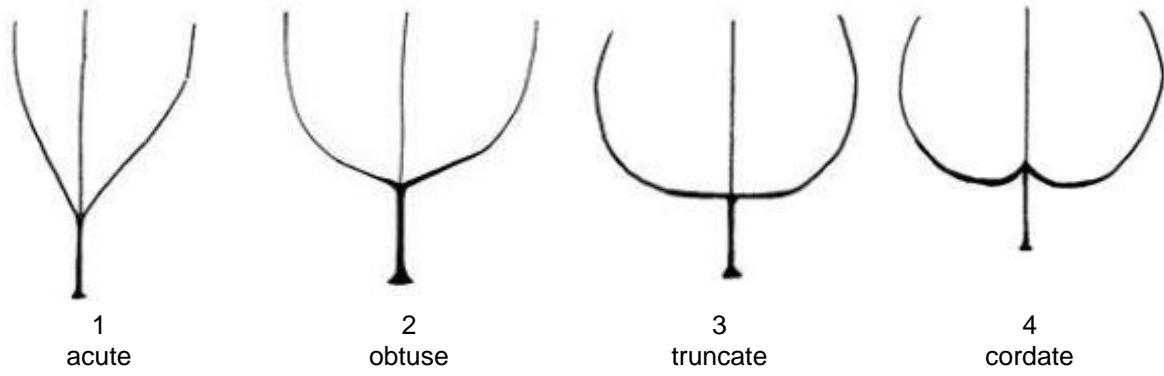
### Ad. 6: One-year-old shoot: size of bud support



### Ad. 7: Young shoot: intensity of anthocyanin coloration of apex

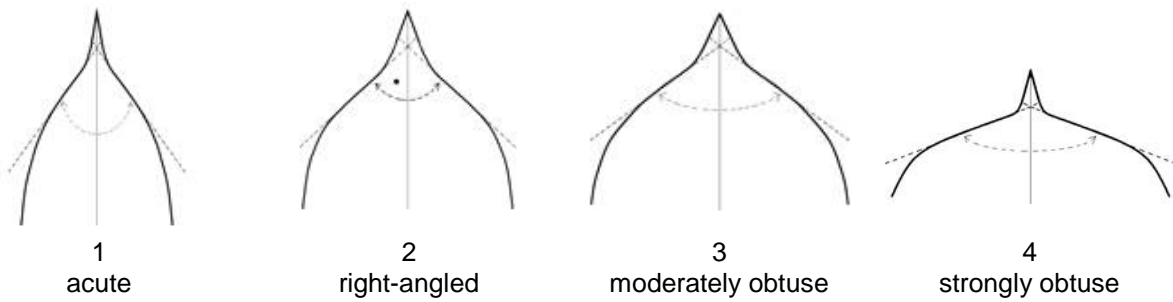
Observation should be made during rapid growth, when the intensity of anthocyanin coloration of apex expresses at its maximum.

### Ad. 12: Leaf blade: shape of base

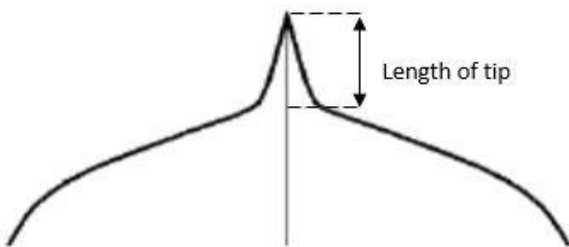


Ad. 13: Leaf blade: angle of apex

Observation should exclude the tip.

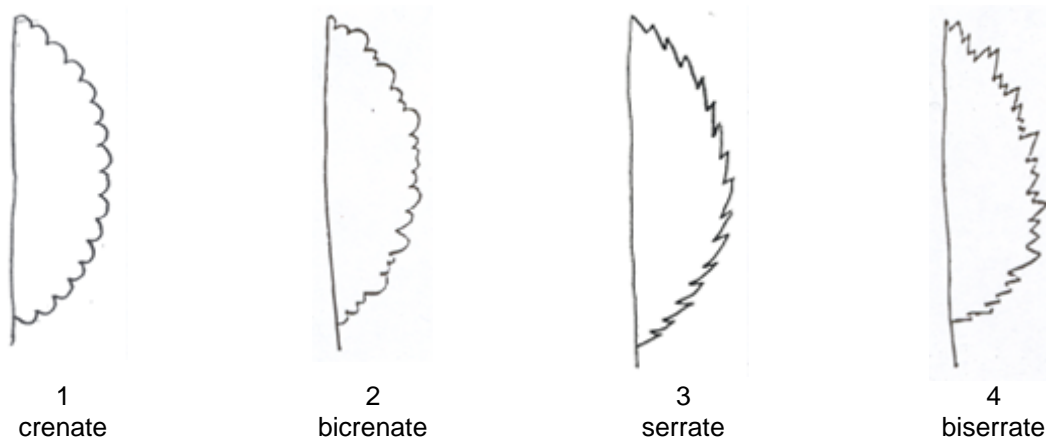


Ad. 14: Leaf blade: length of tip



Ad. 15: Leaf blade: incisions of margin

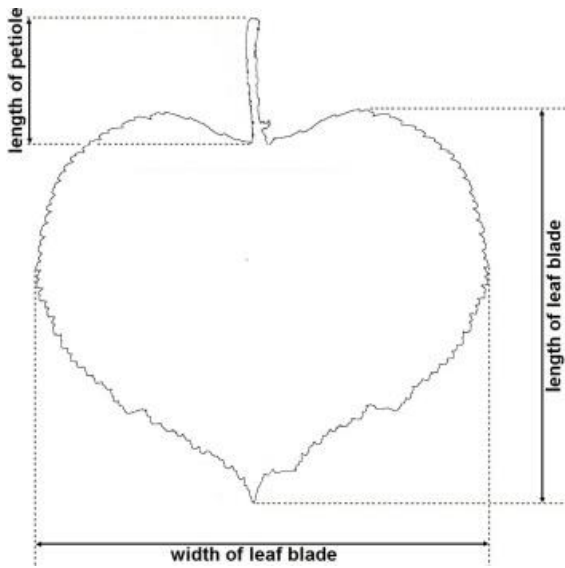
Observation should be made on the upper part of the leaf excluding the tip of the leaf blade.



Ad. 17: Leaf blade: profile in cross section

Leaves observed should be on spurs or at base of flowering shoots.

Ad. 19: Leaf: ratio length of blade /length of petiole



Ad. 22: Petiole: number of nectaries



1  
none or one

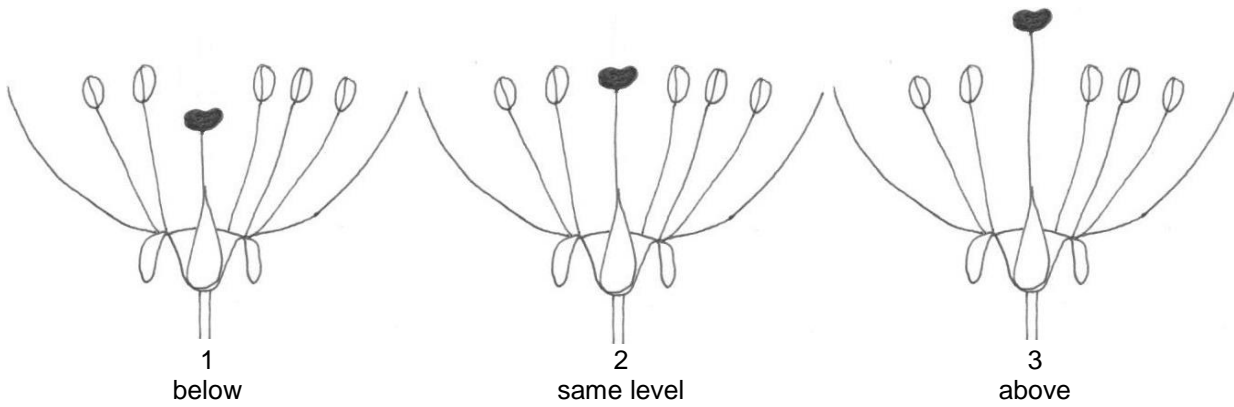


2  
two or three



3  
more than three

Ad. 25: Flower: position of stigma relative to anthers



Ad. 26: Petal: shape

Observations should exclude the claw.



1  
elliptic



2  
circular



3  
oblate

Ad. 27: Petal: color

Observations should be made on the petals at balloon stage.

Ad. 28: Sepal: attitude

Observations should be made on fully opened flowers.



1  
upwards



2  
outwards

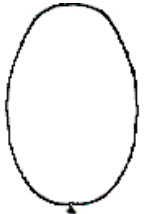
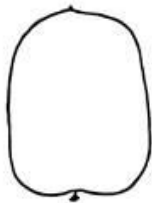

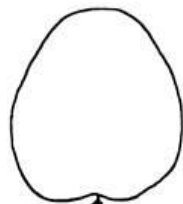
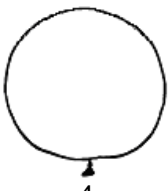
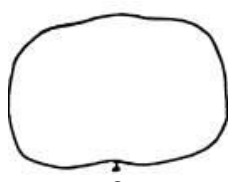
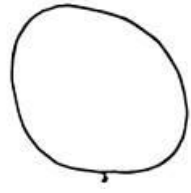


3  
downwards

Ad. 29: Fruit: weight

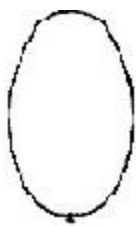

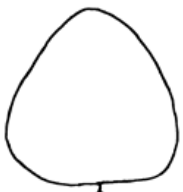
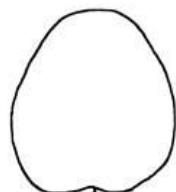
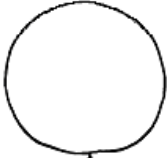
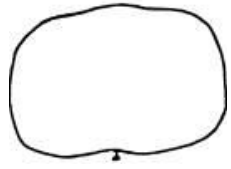
Observation should be made on the overall size of the fruit.

Ad. 30: Fruit: shape in lateral view

		← broadest part →		
		below middle	at middle	above middle
relative width				
narrow (high)			 6 elliptic	
medium (medium)			 5 oblong	
		 1 triangular	 2 ovate	 4 circular
broad (low)			 3 oblate	 7 oblique rhombic



Ad. 31: Fruit: shape in ventral view

		← broadest part →		
		below middle	at middle	above middle
relative width				
narrow			 6 elliptic	
medium			 5 oblong	
		 1 triangular	 2 ovate	 4 circular
broad			 3 oblate	

Ad. 37: Fruit: symmetry in ventral view



1  
symmetric



2  
slightly asymmetric



3  
clearly asymmetric

Ad. 38: Fruit: suture



1  
raised



2  
slightly sunken



3  
moderately sunken



4  
deeply sunken

Ad. 40: Fruit: shape of apex in lateral view

Observations should be made on fruits in lateral view.



1  
acute



2  
rounded



3  
truncate

Ad. 41: Fruit: shape of pistil end in lateral view

Observations should exclude the mucron tip.



1  
pointed



2  
flat



3  
weakly depressed



4  
strongly depressed

Ad. 42: Fruit: presence of mucron



1  
absent



9  
present

Ad. 46: Fruit: ground color of skin

The ground color is the first color to appear chronologically during the development of the skin and upon which the over color will develop in time. It is not always necessarily the largest area of the skin.

Ad. 47: Fruit: hue of over color

The cover color is the main anthocyanin coloration of skin with the largest surface area.

Ad. 49: Fruit: relative area of over color



1  
absent or very small



3  
small



5  
medium



7  
large



9  
very large

Ad. 50: Fruit: pattern of over color



1  
isolated spots



2  
solid flush

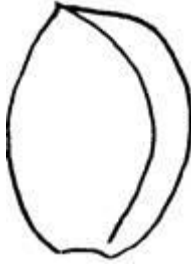
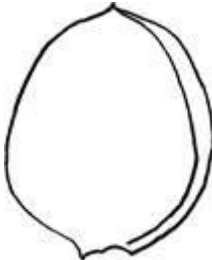

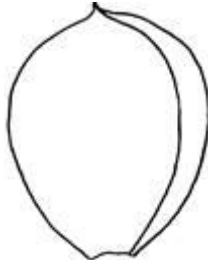



3  
covered all over with very small spots

Ad. 53: Fruit: firmness of flesh

Observation is made by squeezing the fruit.

Ad. 56: Stone: shape in lateral view

		← broadest part →		
		below middle	at middle	above middle
relative width				
narrow			 <p>4 oblong</p>	
medium		 <p>1 ovate</p>	 <p>3 elliptic</p>	 <p>5 obovate</p>
broad			 <p>2 circular</p>	

Ad. 57: Kernel: bitterness

Observation is made by tasting the kernel.

Ad. 58: Time of beginning of flowering

Observations or measurement should be made when 5-10% of the flowers are open.

Ad. 59: Time of beginning of fruit ripening

The assessment should be made when 5-10% ripen fruits can be observed. Fruit ripening should be considered as the time of eating maturity.

8.3 *Synonyms of example varieties*

Example Varieties	Synonym(s)
Sant' Ambrogio	Ambrosia, Saint Ambroise
Bhart	NJA 32
Borsi rózsa	Kecskemeter rose, Ružova neskora, Trandafirii tirzi
Čačacansko zlato	Čačak's Gold
Earle Orange	Erle Orange, Stark Earli Orange, Early Orange
Goldrich	Sungiant
Magyar kajszai	Cea mai bună de Ungaria, Hungarian Best, Klosterneuburger Aprikose, Krasnoshchokij, Mađarska najbolja, Meilleur d'Hongrie, Ungarische Beste,
Pineapple	Abriçot d'Ananas, Ananas-Marille, Ananasnyj
Proimo Tyrinthos	Précoce de Tyrinthe
Sateni Karmir	Tabarza
Yerevani	Shalakh

## 9. Literature

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Smykov, V. K., *et al.*, 1974: "Kul'tura abrikosa v neoroshaemykh usloviyakh Moldavii (Apricot growing under non-irrigated conditions of Moldavia)". Izdatel'stvo Stiinca, Kishinev, MD.

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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	Botanical name	<input type="text" value="Prunus armeniaca L."/>
1.2	Common name	<input type="text" value="Apricot"/>
2. Applicant		
	Name	<input type="text"/>
	Address	<input type="text"/>
	Telephone No.	<input type="text"/>
	Fax No.	<input type="text"/>
	E-mail address	<input type="text"/>
	Breeder (if different from applicant)	<input type="text"/>
3. Proposed denomination and breeder's reference		
	Proposed denomination (if available)	<input type="text"/>
	Breeder's reference	<input type="text"/>



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#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:
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4.2	Method of propagating the variety	
4.2.1	Vegetative propagation	
(a)	Cuttings	[ ]
(b)	<i>In vitro</i> propagation	[ ]
(c)	Other (state method)	[ ]
	<input type="text"/>	
4.2.2	Other (Please provide details)	[ ]
	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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
<b>5.1 Petal: color (27)</b>		
white	Bulida, Cafona, Polonais	1 [ ]
pinkish white	Magyar kajszai, San Castrese	2 [ ]
light pink	Harcot	3 [ ]
dark pink	Cheyenne, Ninja	4 [ ]
<b>5.2 Fruit: weight (29)</b>		
very small	Haggith, Menace, Supergold, Tengeribarack C. 1426, Zard	1 [ ]
very small to small	Tengeribarack C. 2546	2 [ ]
small	Borsi rózsa, Hâtif Colomer, Ladisun, Patriarca Temprano	3 [ ]
small to medium	Val orange	4 [ ]
medium	Cafona, Canino, Harcot, Paz	5 [ ]
medium to large	Iziagat, Oscar	6 [ ]
large	Ceglédi bíbor, Moniqui, Portici	7 [ ]
large to very large	Swilate	8 [ ]
very large	Ceglédi óriás, Flamengo, Hargrand, Palsteyn, Pisana	9 [ ]
<b>5.3 Fruit: shape in lateral view (30)</b>		
triangular	Gilgat, Luizet	1 [ ]
ovate	Bergeron, Calirose, Pisana	2 [ ]
oblate	Korai zamatos, Nugget, Patriarca Temprano	3 [ ]
circular	Earle Orange, Grandir, Ninfa, Ouardi, Polonais	4 [ ]
oblong	Blenheim, Portici, Sundrop	5 [ ]
elliptic	Précoce d'Imola, Wenatchee, Yerevani	6 [ ]
oblique rhombic	Banga, Bulida, Canino, Vulcan	7 [ ]
obovate	Harcot, Harmat, Trevatt	8 [ ]

Characteristics	Example Varieties	Note
<b>5.4 Fruit: ground color of skin (46)</b>		
not visible	Ravicille, Ravilong	1 [ ]
white	San Nicola, Shirazskij belyj	2 [ ]
yellowish	Piet Cillié, Soldonné, Vitillo, Yerevani	3 [ ]
yellow green	Grüne Spätmarille, Kaisi Ashtarak, Roxy, Sateni Karmir	4 [ ]
light orange	Canino, Goldcot, Hargrand, Portici, Rouge du Roussillon	5 [ ]
medium orange	Calirose, Hâtif Colomer, Luizet, Pisana, Veecot	6 [ ]
dark orange	Bhart, Harcot, Harogem	7 [ ]
<b>5.5 Fruit: relative area of over color (49)</b>		
absent or very small	Ceglédi gömbölyű, Charisma, Maria Matilde, Moniquí, Yerevani	1 [ ]
absent or very small to small		2 [ ]
small	Cafona, Canino, Cape Bebeco, Goldrich	3 [ ]
small to medium	Ceglédi kedves	4 [ ]
medium	Hâtif Colomer, Magyar kajszi, Palsteyn, Portici, Roxy	5 [ ]
medium to large	Ceglédi szilárd	6 [ ]
large	Bergeron, Bhart, Golden Blush, Pisana	7 [ ]
large to very large	Cheyenne	8 [ ]
very large	Ravicille, Ravilong	9 [ ]
<b>5.6 Fruit: color of flesh (51)</b>		
white	Cibo del Paradiso, Mouchbah Mourry, Spitak	1 [ ]
whitish green	Amban	2 [ ]
yellowish white	Barese, Malatya, Moniquí, Patriarca Temprano	3 [ ]
light orange	Canino, Cape Bebeco, Harmat, San Castrese, Yerevani	4 [ ]
medium orange	Grandir, Harglow, Pisana, Rouge du Roussillon, Screara	5 [ ]
dark orange	Bhart, Francese, Harcot, Hâtif Colomer, Palsteyn	6 [ ]
red		7 [ ]

Characteristics	Example Varieties	Note
<b>5.7 Time of beginning of flowering (58)</b>		
very early	Bakour, Colorado, Currots, Harmat, Ninfa, Solitaire	1 [ ]
very early to early	Rambo	2 [ ]
early	Canino, Harcot, Hâtif Colomer, San Castrese	3 [ ]
early to medium	Ceglédi szilárd, Goldrich	4 [ ]
medium	Bhart, Magyar kajszi, Moniquí, Portici, San Francesco, Supergold	5 [ ]
medium to late	Ceglédi zamatos, Digat	6 [ ]
late	Bergeron, Boccuccia Liscia, Farius, Harlayne, Ladisun, Polonais	7 [ ]
late to very late	Hurgat	8 [ ]
very late	Badami, Harglow, Skromnyj, Stella, Zard	9 [ ]
<b>5.8 Time of beginning of fruit ripening (59)</b>		
very early	Bakour, Ninfa, Patriarca Temprano, Rutbhart, Samarkandskij rannij	1 [ ]
very early to early	Monabri, Tsunami	2 [ ]
early	Bhart, Hâtif Colomer, Ladisun, Monaco Bello, Rouget de Sernhac, Tomcot	3 [ ]
early to medium	Goldrich, Hargrand, Magyar kajszi	4 [ ]
medium	Amber Gold, Bergeron, Harlayne, Pisana, Polonais	5 [ ]
medium to late	Anegat, Swired	6 [ ]
late	Faralia, Larquen	7 [ ]
late to very late	Fartoli	8 [ ]
very late	Farclo, Farlis, Lartago	9 [ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Fruit: ground color of skin</i>	<i>light orange</i>	<i>dark orange</i>


Comments:

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TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#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.]

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

.....

9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens?

Yes [ ]

(please provide details as specified by the Authority)

No [ ]

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]