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

Geneva

DRAFT

## JAPANESE PLUM

UPOV Code(s): PRUNU\_SAL,  
PRUNU\_SAM*Prunus salicina* Lindl.,  
hybrids between *Prunus salicina* and  
*Prunus armeniaca*

## GUIDELINES

## FOR THE CONDUCT OF TESTS

## FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from France  
to be considered by the  
Technical Working Party for Fruit Crops  
at its fifty-fifth session, to be held virtually  
from 2024-06-03 to 2024-06-06*

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

Alternative names:\*

Botanical name	English	French	German	Spanish
<i>Prunus salicina</i> Lindl.	Japanese plum	Prunier Japonais	Ostasiatische Pflaume	Ciruelo Japonés
hybrids between <i>Prunus salicina</i> and <i>Prunus armeniaca</i> , <i>Prunus armeniaca</i> x <i>Prunus salicina</i> x <i>Prunus armeniaca</i> , <i>Prunus salicina</i> x <i>Prunus armeniaca</i> , <i>Prunus salicina</i> x <i>Prunus armeniaca</i> x <i>Prunus salicina</i> , <i>Prunus salicina</i> x <i>Prunus salicina</i> x <i>Prunus armeniaca</i>	Plumcot			

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.

\* 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.]

## **ASSOCIATED DOCUMENTS**

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

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1. Subject of these Test Guidelines

- 1.1 These Test Guidelines apply to all varieties of *Prunus salicina* Lindl. and hybrids between *Prunus salicina* Lindl. and *Prunus armeniaca* Lindl.
- 1.2 Guidance on the use of Test Guidelines for other hybrids involving *Prunus salicina* L. that are not explicitly covered by Test Guidelines is provided in document TGP/13 "Guidance for New Types and Species"

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 budsticks or dormant shoots for grafting, or one-year-old trees grafted on a rootstock specified by the competent authority.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:
- 3 budsticks or dormant shoots sufficient to propagate 3 trees or  
3 one-year-old trees
- 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*

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 Each test should be designed to result in a total of at least 3 trees.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

### 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 3 plants or parts of plants taken from each of 3 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 5.

#### 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 of vegetatively propagated varieties, 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.

## 4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

## 5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Fruit: size (characteristic 29)
- (b) Fruit: ground color of skin (characteristic 43)
- (c) Fruit: hue of over color (characteristic 44)
- (d) Fruit: relative area of over color (characteristic 45)
- (e) Fruit: color of flesh (characteristic 49)
- (f) Time of beginning of flowering (characteristic 63)
- (g) Time of beginning of fruit ripening (characteristic 64)

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)-(e) 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
<b>1.</b>	<b>PQ</b>	<b>VG</b>						
	<b>Tree: type of bearing</b>							
	on spurs only						Gaviota	1
	on spurs and long shoots						Angeleno, Shiro	2
	on long shoots only							3
<b>2.</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Tree: vigor</b>							
	very weak							1
	very weak to weak						ZAI122bisp	2
	weak						Satsuma, Suplumtwelve	3
	weak to medium							4
	medium						Autumn Giant, Black Diamond, Obilnaya	5
	medium to strong						Gold Ball	6
	strong						Royal Diamond, Taiyou, Yummygiant	7
	strong to very strong						Methley	8
	very strong							9
<b>3. (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(a)</b>				
	<b>Tree: habit</b>							
	upright						Anne Gold, Formosa, Taiyou	1
	upright to spreading						Laroda	2
	spreading						Ozark Premier, Shiro	3
	drooping						Yummygiant	4
<b>4.</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(a), (b)</b>				
	<b>One-year-old shoot: color</b>							
	greyish brown						Taiyou	1
	yellow brown						Sordum	2
	medium brown						Methley	3
	reddish brown						Combination	4

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>5.</b>	<b>QN</b> <b>MS/VG</b>					
	<b>Spur: length</b>					
	very short				Laroda, Sordum	1
	short					2
	medium				Frontier	3
	long					4
	very long				October Purple	5
<b>6.</b>	<b>QN</b> <b>VG</b>	<b>(b)</b>				
	<b>Vegetative bud: size</b>					
	small				Harry Pickstone	1
	medium				Suplumtwelve	2
	large					3
<b>7.</b>	<b>PQ</b> <b>VG</b>	<b>(+)</b> <b>(b)</b>				
	<b>Vegetative bud: shape of apex</b>					
	acute				Eldorado	1
	obtuse				Songold	2
	rounded				Satsuma	3
<b>8.</b>	<b>QN</b> <b>VG</b>	<b>(+)</b> <b>(b)</b>				
	<b>One-year-old shoot: position of vegetative bud in relation to shoot</b>					
	adpressed				Queen Ann	1
	slightly held out				Satsuma	2
	markedly held out				Songold	3
<b>9. (*)</b>	<b>QN</b> <b>MS/VG</b>	<b>(c)</b>				
	<b>Leaf blade: length</b>					
	very short				Blackcot, Obilnaya	1
	very short to short				Queen Gamet	2
	short				Honey Rosa, Pioneer	3
	short to medium				Golden Plumza, Ozark Premier	4
	medium				Friandise, Taiyou	5
	medium to long				Friar, Sun Kiss	6
	long				Lamoon Plum, Sordum	7
	long to very long				Plumsweet IV	8
	very long					9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>10</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(c)</b>			
		<b>Leaf blade: width</b>					
		very narrow				Queen Gamet	1
		very narrow to narrow				Pioneer	2
		narrow				Beauty, Ozark Premier	3
		narrow to medium				Gold Ball	4
		medium				Black Diamond, September Yummy, Sordum	5
		medium to broad				Formosa, Methley	6
		broad				Anne Gold, Combination	7
		broad to very broad				Plumred IX	8
		very broad				Flavorella	9
<b>11</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(c)</b>			
		<b>Leaf blade: length/width ratio</b>					
		low				Anne Gold, Casselman	1
		medium				Pioneer, Suplumtwenty	2
		high				Eclipse, Friandise, Lamoon Plum	3
<b>12</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(c)</b>		
		<b>Leaf blade: shape</b>					
		ovate				Flavorella	1
		elliptic				October Purple, Suplumtwelve, Syokou, Taiyou	2
		obovate				Kanro, Kelsey, Pioneer, Suplumtwenty	3
<b>13</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(c)</b>			
		<b>Leaf blade: color of upper side</b>					
		light green				Ozark Premier, Taiyou	1
		medium green				Abundance, Laroda, Yummygiant	2
		dark green				Gaviota, Shiro	3
		reddish purple				Hollywood	4

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(c)</b>			
		<b>Leaf blade: angle of apex (excluding tip)</b>						
		acute					Friandise, Golden Plumza, Taiyou	1
		right angled					Gold Ball, Ozark Premier, Satsuma, Suplumtwenty	2
		obtuse					Anne Gold, Formosa, Methley	3
<b>15</b>		<b>QN</b>	<b>VG</b>		<b>(c)</b>			
		<b>Leaf: glossiness of upper side</b>						
		weak					Ozark Premier, Taiyou	1
		medium					Frontier, Gold Ball, Shiro	2
		strong					Nubiana, Pioneer	3
<b>16</b>		<b>QN</b>	<b>VG</b>		<b>(c)</b>			
		<b>Leaf blade: density of pubescence of lower side</b>						
		sparse					Angeleno, Redheart, Taiyou	1
		medium					Queen Ann, Shiro	2
		dense					Obilnaja	3
<b>17</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(c)</b>			
		<b>Leaf blade: incisions of margin</b>						
		crenate					Dapple Dandy , Friandise, Gaviota, Harry Pickstone	1
		bi-crenate					Golden Kiss, Pioneer, Suplumtwenty	2
		serrate						3
		bi-serrate					ZAI122bisp	4
<b>18</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>		<b>(c)</b>			
		<b>Petiole: length</b>						
		very short					Plumsweetone, Red Beauty	1
		short					Dapple Dandy , Golden Plumza, Kelsey	2
		medium					Frontier, Gold Ball, Pioneer	3
		long					Combination, Queen Garnet	4
		very long					Blackcot, Flavorella	5

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>19</b>	<b>QN</b>	<b>VG</b>	<b>(c)</b>				
	<b>Leaf: position of nectaries</b>						
	predominantly on base of leaf blade					Methley	1
	equally on base of leaf blade and on petiole					Nubiana	2
	predominantly on petiole					Queen Ann	3
<b>20</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Pedicle: length</b>						
	very short					Dapple Dandy	1
	short					Methley, Sun Kiss, Yummygem	2
	medium					Queen Ann, RD3, Shiro, Zaiterki	3
	long					Red Ace, Taiyou	4
	very long					Grenadine	5
<b>21 (*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(d)</b>				
	<b>Flower: diameter</b>						
	very small					Lamoon Plum	1
	small					Nubiana, Suplumtwelve	2
	medium					Crimson Glo, October Purple, Shiro, Taiyou	3
	large					Kiyou, Methley, Zaiterla	4
	very large					ZAI122bisp	5
<b>22</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Flower: arrangement of petals</b>						
	free					Laroda	1
	touching					Beauty, Harry Pickstone, Queen Garnet, Shiro	2
	overlapping					Anne Gold, Obilnaya	3
<b>23</b>	<b>PQ</b>	<b>VG</b>	<b>(d)</b>				
	<b>Sepal: shape</b>						
	triangular					Mariposa	1
	medium ovate					Harry Pickstone	2
	broad ovate					George Wilson	3
	narrow elliptic					Laroda	4
	medium elliptic					Nubiana	5

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>24</b>	<b>QN</b>	<b>MS/VG</b>	<b>(d)</b>				
	<b>Petal: length</b>						
		very short				Lamoon Plum	1
		short				Anne Gold, Laroda, Shigyoku, Sun Kiss, Yummygem	2
		medium				Crimson Glo, Santa Rosa	3
		long				Blackcot, Burbank, September Yummy, Zaiterla	4
		very long				Primetime, ZAI122bisp	5
<b>25 (*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Petal: shape</b>						
		elliptic				Formosa, Red Ace, Taiyou, Yummygiant	1
		circular				Plumsweetone, Shiro, Wickson , Zaipubo	2
		oblate				Wright's Early	3
		obovate					4
<b>26</b>	<b>QN</b>	<b>VG</b>	<b>(d)</b>				
	<b>Petal: undulation of margin</b>						
		absent or weak				Formosa, Redheart, Shiro, Taiyou, Yummygiant	1
		medium				Ozark Premier, Queen Ann, Suplumtwenty	2
		strong				Lady Red, Morettini 355, Showtime	3
<b>27 (*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(d)</b>			
	<b>Stigma: position in relation to anthers</b>						
		below				Mariposa, Suplumtwenty, Yummygiant	1
		same level				Gold Ball, Methley	2
		above				Anne Gold, Obilnaya	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>28</b>	<b>QN</b>	<b>MS/VG</b>	<b>(e)</b>				
	<b>Fruit: length of stalk</b>						
		very short				Black Diamond	1
		short				Yonemomo, Zaiterla	2
		medium				Anne Gold, Sordum	3
		long				Crimson Glo, Hollywood	4
		very long				Primetime	5
<b>29 (*)</b>	<b>QN</b>	<b>MG/MS/VG</b>	<b>(e)</b>				
	<b>Fruit: size</b>						
		very small				Methley	1
		very small to small				Golden Japan	2
		small				Allo, Eldorado, ZAI122bisp	3
		small to medium				Suplumtweentytwo	4
		medium				Shiro, Zaiterla	5
		medium to large				Blackcot, Crimson Glo	6
		large				Angeleno, Friar, Ozark Premier, Taiyou	7
		large to very large				Sun Kiss, Yummygiant	8
		very large				Anne Gold, Lamoon Plum, Songold	9
<b>30 (*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>			
	<b>Fruit: height</b>						
		very short					1
		very short to short				Methley	2
		short				Eclipse, Golden Japan	3
		short to medium				Blackcot	4
		medium				Crimson Glo, Harry Pickstone, Sun Kiss	5
		medium to tall				Plumsweet IV	6
		tall				Anne Gold, Suplumtweenty, Valentine	7
		tall to very tall				Hengpral, Lamoon Plum	8
		very tall					9

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>31</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: width</b>						
		very narrow					Methley	1
		very narrow to narrow					Zaiterla	2
		narrow					Amber Jewel, October Sun	3
		narrow to medium					Yummygem	4
		medium					Casselman, Crimson Glo	5
		medium to broad					Ruby Star	6
		broad					Anne Gold, Simka	7
		broad to very broad					Lamoon Plum, Sun Kiss	8
		very broad					Florence, Suplumtwenty	9
<b>32</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: ratio height/width</b>						
		very small					Plumsweet IX, SD7A, Suplumtwenty	1
		very small to small					Dapple Dandy , Friar	2
		small					Anne Gold, Florence	3
		small to medium					Golden Japan, Yummygiant	4
		medium					Soryana, Suplumthirtyone	5
		medium to high					Aphrodite, Grenadine	6
		high					Lamoon Plum, ZAI122bisp	7
		high to very high					October Sun	8
		very high					Hengpral	9
<b>33</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: symmetry</b>						
		symmetric or slightly asymmetric					Laroda, Shiro, Soryana	1
		moderately asymmetric					Formosa, Friar, Harry Pickstone	2
		strongly asymmetric					Anne Gold, Ozark Premier	3



	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>34</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: shape in lateral view</b>						
		oblong					Reubennel, ZAI048ISP	1
		elliptic					October Sun, Ozark Premier, Taiyou	2
		circular					Golden Japan, Red Beauty, Shiro	3
		oblate					Friar, Suplumtwenty	4
		cordate					Burbank, Hengpral, Morettini 355	5
		obovate						6
		obcordate						7
<b>35</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: shape of base</b>						
		pointed					Morettini 355, Taiyou	1
		truncate					Florence, Green Sun, Suplumtwelve	2
		depressed					Calita, Durado, Gabora , Suplumtwenty	3
<b>36</b>		<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: shape of apex</b>						
		pointed					Golden Plumza, Hengpral, Lamoon Plum	1
		rounded					Friandise, Shiro	2
		truncate					Angeleno, ZAI048ISP	3
		depressed					Dapple Dandy , Friar, Tereda	4
<b>37</b>		<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: depth of stalk cavity</b>						
		shallow					Florence, Rubycrunch, Taiyou	1
		medium					Angeleno, Golden Japan, Nubiana	2
		deep					Laroda, Suplumtwelve, Yummygiant	3

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>38</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: width of stalk cavity</b>							
	narrow						Koike Sumomo, October Sun, Queen Garnet	1
	medium						Beni Ryozen, Friandise	2
	broad						Blackred XII, Finroza	3
<b>39</b>	<b>QN</b>	<b>VG</b>		<b>(e)</b>				
	<b>Fruit: depth of suture</b>							
	absent or very shallow						Golden Japan, Methley, Sunrise	1
	shallow						Gold Ball, Pioneer, Taiyou	2
	medium						Formosa, Sordum	3
	deep						Akihime, Plumsweetone	4
<b>40 (*)</b>	<b>QL</b>	<b>VG</b>		<b>(e)</b>				
	<b>Fruit: pubescence</b>							
	absent						Golden Japan, Methley, Soryana	1
	present						Blackcot, ZAI122bisp, Zaiterla	9
<b>41 (*)</b>	<b>QN</b>	<b>VG</b>		<b>(e)</b>				
	<b>Only varieties without pubescence on fruit: Fruit: bloom of skin</b>							
	weak						Ooishi Nakate, Red June, Soryana	1
	medium						Pioneer, Sordum, Yummygiant	2
	strong						Blackred XII, Friandise, Redyummy, Souvenir II	3
<b>42</b>	<b>QL</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: surface</b>							
	smooth						Golden Japan, Soryana	1
	bumpy						Suplumtwelve, Suplumtwenty	2

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>43</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(e)</b>			
		<b>Fruit: ground color of skin</b>					
		not visible				Angeleno, Blackred V	1
		green				Gaviota, Santa Rosa	2
		yellowish green				Formosa, Ozark Premier, Songold, Taiyou	3
		yellow				Golden Plumza, Shiro, Sun Kiss	4
<b>44</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>		
		<b>Fruit: hue of over color</b>					
		none				Golden Japan	1
		orange yellow				Zairobe	2
		medium red				Red Beauty, Soryana	3
		dark red				Formosa, Starking Delicious, Taiyou	4
		purple				Karari, Morettini 355, Yummygiant	5
		dark blue				Laroda, Suplumtwenty	6
		black				Angeleno, Blackred V, Blackred XII	7
<b>45</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(e)</b>			
		<b>Fruit: relative area of over color</b>					
		absent or very small				Green Sun, Shiro, Sun Kiss	1
		very small to small					2
		small				Anne Gold, Bragialla	3
		small to medium				Zaipubo	4
		medium				Fortune	5
		medium to large				Soryana	6
		large				Burbank, Taiyou	7
		large to very large				Plumred XI	8
		very large or whole surface				Black Diamond, Friar, Suplumeleven	9

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>46</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(e)</b>			
		<b>Fruit: pattern of over color</b>					
		flecks only				Tiger, Zaiterla	1
		mottled				Burbank, Formosa, Omega	2
		solid flush only				Blackred XII, Friar, Taiyou	3
<b>47</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>	<b>(e)</b>			
		<b>Fruit: number of lenticels</b>					
		few				ARC PR 3	1
		medium				Red Majesty, Sunrise	2
		many				Friandise, Polar Eclipse	3
<b>48</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(e)</b>			
		<b>Fruit: size of lenticels</b>					
		small				Obilnaya, Souvenir II, Sunset	1
		medium				Extreme, Friandise	2
		large				Plumsweet XI, Southern Belle	3
<b>49</b>	<b>(*)</b>	<b>PQ</b>	<b>VG</b>	<b>(e)</b>			
		<b>Fruit: color of flesh</b>					
		whitish				Plumcandy X, Taiyou	1
		green					2
		yellowish green				Anne Gold, Shiro	3
		yellow				Angeleno, Golden Japan, Reubennel	4
		orange				Black Amber, Sun Gold, Zaiterla	5
		medium red				Florence, Satsuma, Sordum	6
		dark red				Beauty, Friandise, Hawera, Karari, Stark Delicious	7
		purplish				Blackred VI, Plumred VII, Sangue di Drago	8

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>50</b>	<b>QN</b>	<b>MS/VG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: firmness</b>							
		very soft					Shiro	1
		soft					Methley	2
		medium					Frontier, ZAI122bisp	3
		firm					Anne Gold, Laroda, Sun Kiss, Taiyou, Zaiterla	4
		very firm					Black Amber, Crimson Glo, Redyummy, Yummybeaut	5
<b>51</b>	<b>QN</b>	<b>MG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: juiciness</b>							
		low					Autumn Giant, Burbank, Laroda	1
		medium					Friandise, Gaviota, Ozark Premier	2
		high					Reubennel, Santa Rosa, Shiro, Sun Kiss	3
<b>52</b>	<b>QN</b>	<b>MG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: acidity</b>							
		low					Angeleno, Durado, Florence, Gold Ball, Lamoon Plum	1
		low to medium						2
		medium					Anne Gold, Green Sun, Shiro, Soryana, Sun Kiss, Taiyou	3
		medium to high						4
		high					Carmen, Crimson Glo, Obilnaja, Pioneer, Zaiterla	5
<b>53</b>	<b>QN</b>	<b>MG</b>	<b>(+)</b>	<b>(e)</b>				
	<b>Fruit: sweetness</b>							
		low					Durado, Gold Ball, Obilnaja, Shiro	1
		low to medium						2
		medium					Angeleno, Pioneer, Soryana	3
		medium to high						4
		high					Laroda, Plumcandy X, Plumred VII, Suplumtwelve, Taiyou	5

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>54</b>	<b>(*)</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Fruit: adherence of stone to flesh</b>						
		non-adherent					Fortune	1
		semi-adherent					Black Amber, Nubiana, Ruby Star, Taiyou	2
		adherent					Friandise, Red Majesty, Shiro, Sungold	3
<b>55</b>		<b>QN</b>	<b>VG</b>		<b>(e)</b>			
		<b>Fruit: amount of fiber</b>						
		low						1
		medium						2
		high						3
<b>56</b>	<b>(*)</b>	<b>QN</b>	<b>MS/VG</b>		<b>(e)</b>			
		<b>Stone: size in relation to fruit</b>						
		very small						1
		small						2
		medium						3
		large						4
		very large						5
<b>57</b>		<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
		<b>Stone: shape in lateral view</b>						
		Medium obovate					African Rose	1
		broad obovate					Black Diamond	2
		circular					Angeleno, Kelsey, Pioneer, Red Beauty	3
		narrow elliptic					Eldorado, Lamoon Plum, Plumred IX	4
		medium elliptic					Friandise, Santa Rosa, Taiyou	5
<b>58</b>		<b>PQ</b>	<b>VG</b>		<b>(e)</b>			
		<b>Stone: shape in ventral view</b>						
		narrow elliptic					Kelsey	1
		medium elliptic					Santa Rosa, Taiyou	2
		broad elliptic					Eldorado	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>59</b>	<b>PQ</b>	<b>VG</b>	<b>(e)</b>				
	<b>Stone: shape in basal view</b>						
	narrow elliptic					Shiro, Songold	1
	medium elliptic					Bragialla	2
	broad elliptic					Frontier, Suplumtwelve	3
<b>60</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
	<b>Stone: symmetry in lateral view</b>						
	symmetric or slightly asymmetric					Angeleno, Frontier, Methley	1
	moderately asymmetric					Friandise, Golden Plumza, Shiro	2
	strongly asymmetric					Blackred VI, Obilnaya, Plumred III	3
<b>61</b>	<b>PQ</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
	<b>Stone: texture of lateral surfaces</b>						
	fine grained					Eldorado, Methley, Obilnaya	1
	granular					Nubiana, Pioneer	2
	rough					Laroda, Songold, Zaipubo	3
	hammered					Harry Pickstone, Ozark Premier, Suplumtwenty, Yummygiant	4
<b>62</b>	<b>QN</b>	<b>VG</b>	<b>(+)</b>	<b>(e)</b>			
	<b>Stone: width of stalk-end</b>						
	narrow					Friar, Frontier, Golden Japan, October Sun	1
	medium					Dapple Dandy , Harry Pickstone, Sun Kiss	2
	broad					Angeleno, Lady Red, Red Beauty, Suplumtwenty	3

	English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>63</b>	<b>(*)</b>	<b>QN</b>	<b>MG</b>	<b>(+)</b>			
		<b>Time of beginning of flowering</b>					
		very early				Blackred VI, Durado, Karari	1
		very early to early				African Rose, Blackred I, Plumred VII, Red Beauty	2
		early				Fortune, Grenadine, Mariposa, Plumsweet V, Taiyou	3
		early to medium				Crimson Glo, Plumsweet IV, Red Majesty	4
		medium				Green Sun, Nubiana, Redyummy, Suplumthirtyone	5
		medium to late				Friandise, Friar, Zairobe	6
		late				Gaviota, Golden Japan, Gradiplum, Ozark Premier, Shiro	7
		late to very late				Anne Gold, Burbank, Zaipubo	8
		very late				Angeleno, Ruby Star, Simka	9
<b>64</b>	<b>(*)</b>	<b>QN</b>	<b>MG</b>	<b>(+)</b>			
		<b>Time of beginning of fruit ripening</b>					
		very early				Blackred I, Durado, Red Beauty, Red Noble, Zaiterla	1
		very early to early				African Rose, Methley, Yummygem	2
		early				Golden Japan, Mariposa, Shiro, YummyBeauty	3
		early to medium				Anne Gold, Blackcot, Soryana	4
		medium				Crimson Glo, Gaviota, Suplumtwelve	5
		medium to late				Lamoon Plum, Sun Kiss	6
		late				Angeleno, Nubiana, Plumcandy X, Plumsweet IV, Taiyou, Zaiterki	7
		late to very late				Blackred XII, Florence, Ruby Star	8
		very late				Akihime, Autumn Giant, Golden King, September Yummy	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:

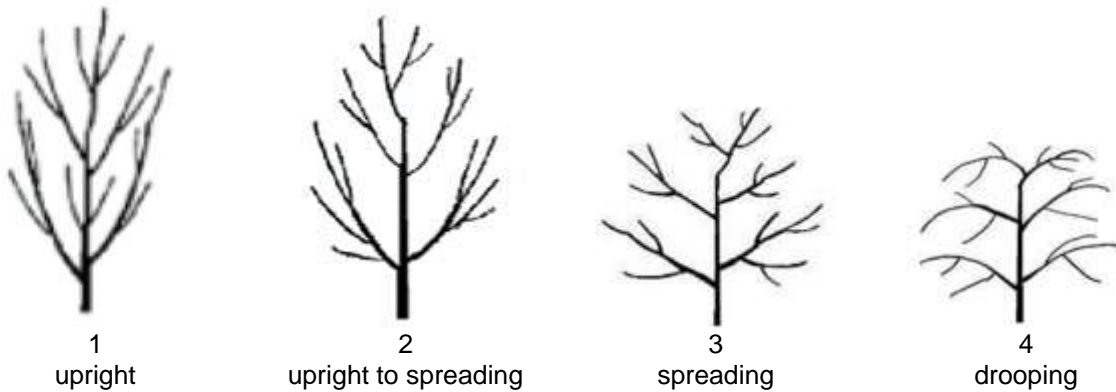
- (a) Observations should be made during the dormant period and before the beginning of flowering, on trees that have fruited at least once.
- (b) Observations on bud and shoot should be made at the central third of the shoot.
- (c) Observations should be made on fully developed leaves from the middle third of a well developed current season's shoot.
- (d) Observations should be made on fully developed flowers.
- (e) Observations should be made on mature fruits. Fruits ripening should be considered as the time of eating maturity.

8.2 *Explanations for individual characteristics*

Ad. 2: Tree: vigor

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

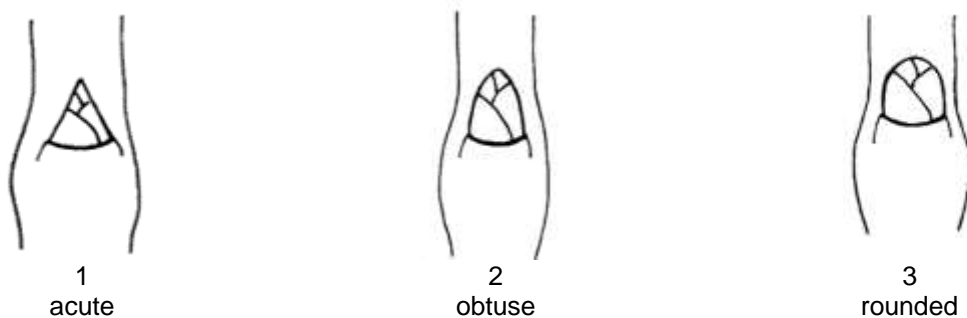
Ad. 3: Tree: habit



Ad. 4: One-year-old shoot: color

Observations should be made on the sunny side of one-year-old shoots.

Ad. 7: Vegetative bud: shape of apex



Ad. 8: One-year-old shoot: position of vegetative bud in relation to shoot



1  
adpressed



2  
slightly held out



3  
markedly held out

Ad. 12: Leaf blade: shape



1  
ovate



2  
elliptic

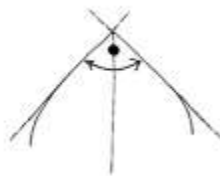


3  
obovate

Ad. 14: Leaf blade: angle of apex (excluding tip)



1  
acute



2  
right angled



3  
obtuse

Ad. 17: Leaf blade: incisions of margin



1  
crenate



2  
bi-crenate

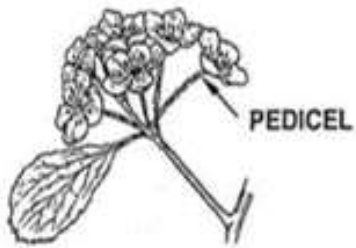


3  
serrate

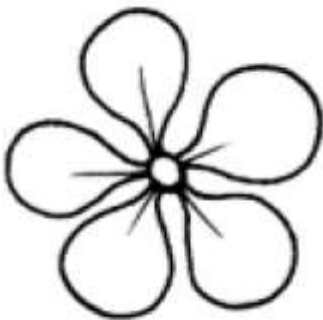


4  
bi-serrate

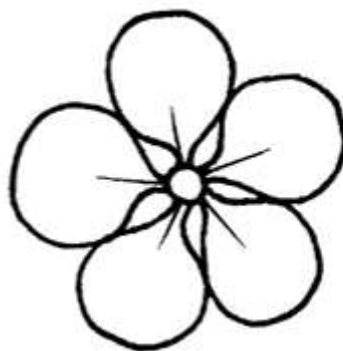
Ad. 20: Pedicel: length



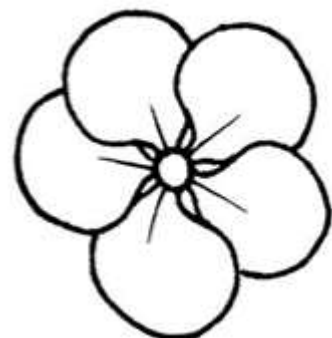
Ad. 22: Flower: arrangement of petals



1  
free

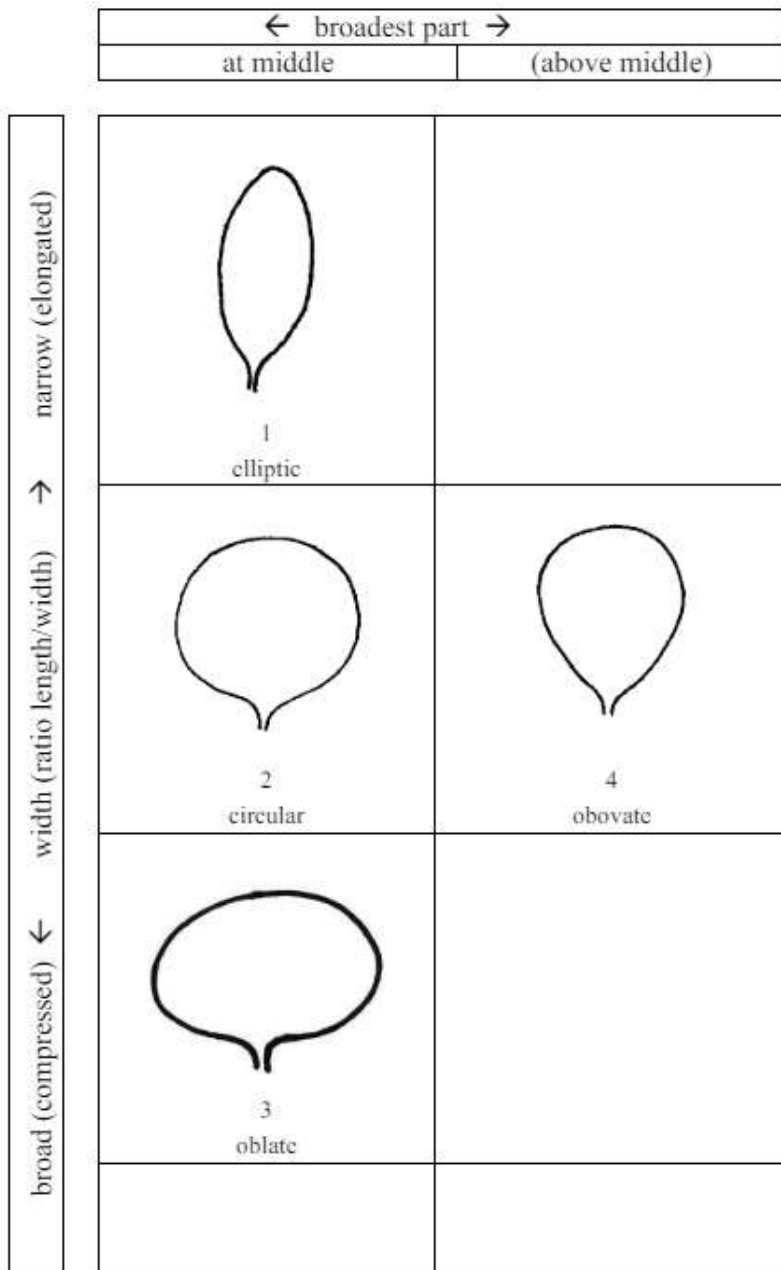


2  
touching

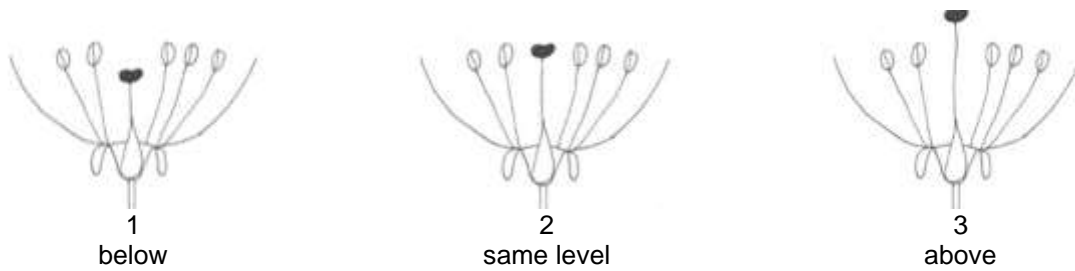


3  
overlapping

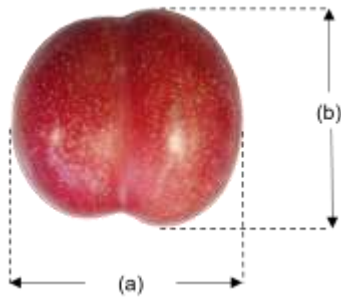
Ad. 25: Petal: shape



Ad. 27: Stigma: position in relation to anthers



Ad. 30: Fruit: height



(a) Width in ventral view  
 (b) Height

Ad. 31: Fruit: width

See Ad. 30. Observation should be made in ventral view

Ad. 33: Fruit: symmetry

The observations should be made in ventral view.



1

symmetric or slightly asymmetric



2

moderately asymmetric



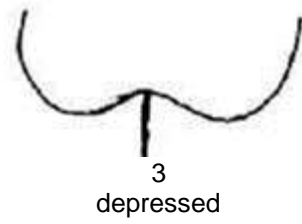
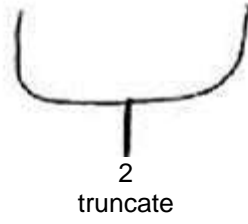
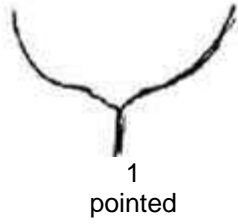
3

strongly asymmetric

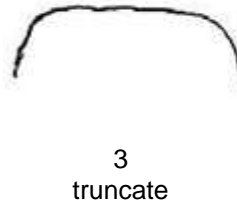
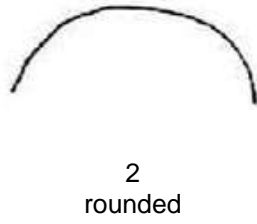
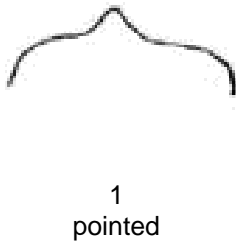
Ad. 34: Fruit: shape in lateral view

		← broadest part →		
		(below middle)	at middle	(above middle)
↑ narrow	↑ width (ratio length/walls)	 5 cordate	 2 elliptic	
			 1 oblong 3 circular	 7 obcordate 6 obovate
↓ broad (compressed)			 4 oblate	

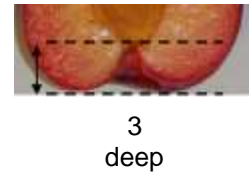
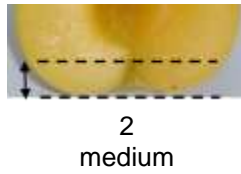
Ad. 35: Fruit: shape of base



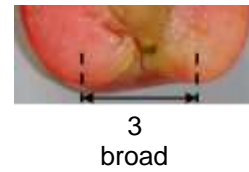
Ad. 36: Fruit: shape of apex



Ad. 37: Fruit: depth of stalk cavity



Ad. 38: Fruit: width of stalk cavity



Ad. 42: Fruit: surface



Ad. 44: Fruit: hue of over color

Observations should be made after removing bloom.

Ad. 50: Fruit: firmness

Observations should be made by squeezing the fruits or measured by using a penetrometer.

Ad. 51: Fruit: juiciness

Observations could be made by calculating the ratio between the weight of a (or several) fresh fruit, and the weight of the juice obtained by pressing those fresh fruits.

Ad. 52: Fruit: acidity

The acidity should be observed as titrable acidity of juice. Equation is:

$$\text{Acidity (gram/liter)} = (V1 * N * me) / V$$

V = sample volume in mL

V1 = NaOH volume in mL

N = normality of NaOH

me = equivalent weight of malic acid (67)






Ad. 53: Fruit: sweetness

Observations should be made using degrees Brix.

Ad. 54: Fruit: adherence of stone to flesh

This characteristic should be assessed by observing on a open fruit the part of the stone that is linked to the flesh.

Ad. 57: Stone: shape in lateral view

	← broadest part →		
	below middle	at middle	
width (ratio length/width)			
narrow (high)			 4 narrow elliptic
medium (medium)	 1 medium obovate	 3 circular	 5 medium elliptic
broad (low)	 2 broad obovate		

Ad. 60: Stone: symmetry in lateral view



1

symmetric or slightly asymmetric



2

moderately asymmetric



3

strongly asymmetric

Ad. 61: Stone: texture of lateral surfaces



1

fine grained



2

granular



3

rough



4

hammered

Ad. 62: Stone: width of stalk-end



1

narrow



2

medium



3

broad

Ad. 63: Time of beginning of flowering

Time of beginning of flowering is reached when 10% of flowers are open.

Ad. 64: Time of beginning of fruit ripening

Time of beginning of fruit ripening is reached when 10% of fruits have eating maturity.



9. Literature

10. Technical Questionnaire

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	Application date: (not to be filled in by the applicant)
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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	<input type="text" value="Prunus salicina Lindl."/>	[ ]
1.1.2	Common name	<input type="text" value="Japanese plum"/>	
1.2.1	Botanical name	<input type="text" value="hybrids between Prunus Salicina and Prunus Armeniaca"/>	[ ]
1.2.2	Common name	<input type="text" value="Plumcot"/>	

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 [ ]

(b) partially known cross [ ]

(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 [ ]

4.1.5 Other [ ]  
(Please provide details)

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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)	Budding or grafting	[ ]
(d)	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 Tree: vigor (2)</b>		
very weak		1 [ ]
very weak to weak	ZAI122bisp	2 [ ]
weak	Satsuma, Suplumtwelve	3 [ ]
weak to medium		4 [ ]
medium	Autumn Giant, Black Diamond, Obilnaya	5 [ ]
medium to strong	Gold Ball	6 [ ]
strong	Royal Diamond, Taiyou, Yummygiant	7 [ ]
strong to very strong	Methley	8 [ ]
very strong		9 [ ]
<b>5.2 Spur: length (5)</b>		
very short	Laroda, Sordum	1 [ ]
short		2 [ ]
medium	Frontier	3 [ ]
long		4 [ ]
very long	October Purple	5 [ ]
<b>5.3 Leaf blade: shape (12)</b>		
ovate	Flavorella	1 [ ]
elliptic	October Purple, Suplumtwelve, Syokou, Taiyou	2 [ ]
obovate	Kanro, Kelsey, Pioneer, Suplumtwenty	3 [ ]
<b>5.4 Leaf blade: angle of apex (excluding tip) (14)</b>		
acute	Friandise, Golden Plumza, Taiyou	1 [ ]
right angled	Gold Ball, Ozark Premier, Satsuma, Suplumtwenty	2 [ ]
obtuse	Anne Gold, Formosa, Methley	3 [ ]

Characteristics	Example Varieties	Note
<b>5.5 Flower: diameter (21)</b>		
very small	Lamoon Plum	1 [ ]
small	Nubiana, Suplumtwelve	2 [ ]
medium	Crimson Glo, October Purple, Shiro, Taiyou	3 [ ]
large	Kiyou, Methley, Zaiterla	4 [ ]
very large	ZAI122bisp	5 [ ]
<b>5.6 Fruit: size (29)</b>		
very small	Methley	1 [ ]
very small to small	Golden Japan	2 [ ]
small	Allo, Eldorado, ZAI122bisp	3 [ ]
small to medium	Suplumtwentytwo	4 [ ]
medium	Shiro, Zaiterla	5 [ ]
medium to large	Blackcot, Crimson Glo	6 [ ]
large	Angeleno, Friar, Ozark Premier, Taiyou	7 [ ]
large to very large	Sun Kiss, Yummygiant	8 [ ]
very large	Anne Gold, Lamoon Plum, Songold	9 [ ]
<b>5.7 Fruit: shape in lateral view (34)</b>		
oblong	Reubennel, ZAI048ISP	1 [ ]
elliptic	October Sun, Ozark Premier, Taiyou	2 [ ]
circular	Golden Japan, Red Beauty, Shiro	3 [ ]
oblate	Friar, Suplumtwenty	4 [ ]
cordate	Burbank, Hengpral, Morettini 355	5 [ ]
obovate		6 [ ]
obcordate		7 [ ]
<b>5.8 Fruit: pubescence (40)</b>		
absent	Golden Japan, Methley, Soryana	1 [ ]
present	Blackcot, ZAI122bisp, Zaiterla	9 [ ]
<b>5.9 Fruit: ground color of skin (43)</b>		
not visible	Angeleno, Blackred V	1 [ ]
green	Gaviota, Santa Rosa	2 [ ]
yellowish green	Formosa, Ozark Premier, Songold, Taiyou	3 [ ]
yellow	Golden Plumza, Shiro, Sun Kiss	4 [ ]

Characteristics	Example Varieties	Note
<b>5.10 Fruit: hue of over color (44)</b>		
none	Golden Japan	1 [ ]
orange yellow	Zairobe	2 [ ]
medium red	Red Beauty, Soryana	3 [ ]
dark red	Formosa, Starking Delicious, Taiyou	4 [ ]
purple	Karari, Morettini 355, Yummygiant	5 [ ]
dark blue	Laroda, Suplumtwenty	6 [ ]
black	Angeleno, Blackred V, Blackred XII	7 [ ]
<b>5.11 Fruit: relative area of over color (45)</b>		
absent or very small	Green Sun, Shiro, Sun Kiss	1 [ ]
very small to small		2 [ ]
small	Anne Gold, Bragialla	3 [ ]
small to medium	Zaipubo	4 [ ]
medium	Fortune	5 [ ]
medium to large	Soryana	6 [ ]
large	Burbank, Taiyou	7 [ ]
large to very large	Plumred XI	8 [ ]
very large or whole surface	Black Diamond, Friar, Suplumeleven	9 [ ]
<b>5.12 Fruit: color of flesh (49)</b>		
whitish	Plumcandy X, Taiyou	1 [ ]
green		2 [ ]
yellowish green	Anne Gold, Shiro	3 [ ]
yellow	Angeleno, Golden Japan, Reubennel	4 [ ]
orange	Black Amber, Sun Gold, Zaiterla	5 [ ]
medium red	Florence, Satsuma, Sordum	6 [ ]
dark red	Beauty, Friandise, Hawera, Karari, Stark Delicious	7 [ ]
purplish	Blackred VI, Plumred VII, Sanguie di Drago	8 [ ]
<b>5.13 Stone: size in relation to fruit (56)</b>		
very small		1 [ ]
small		2 [ ]
medium		3 [ ]
large		4 [ ]
very large		5 [ ]

Characteristics	Example Varieties	Note
<b>5.14 Time of beginning of flowering (63)</b>		
very early	Blackred VI, Durado, Karari	1 [ ]
very early to early	African Rose, Blackred I, Plumred VII, Red Beauty	2 [ ]
early	Fortune, Grenadine, Mariposa, Plumsweet V, Taiyou	3 [ ]
early to medium	Crimson Glo, Plumsweet IV, Red Majesty	4 [ ]
medium	Green Sun, Nubiana, Redyummy, Suplumthirtyone	5 [ ]
medium to late	Friandise, Friar, Zairobe	6 [ ]
late	Gaviota, Golden Japan, Gradiplum, Ozark Premier, Shiro	7 [ ]
late to very late	Anne Gold, Burbank, Zaipubo	8 [ ]
very late	Angeleno, Ruby Star, Simka	9 [ ]
<b>5.15 Time of beginning of fruit ripening (64)</b>		
very early	Blackred I, Durado, Red Beauty, Red Noble, Zaiterla	1 [ ]
very early to early	African Rose, Methley, Yummygem	2 [ ]
early	Golden Japan, Mariposa, Shiro, YummyBeauty	3 [ ]
early to medium	Anne Gold, Blackcot, Soryana	4 [ ]
medium	Crimson Glo, Gaviota, Suplumtwelve	5 [ ]
medium to late	Lamoon Plum, Sun Kiss	6 [ ]
late	Angeleno, Nubiana, Plumcandy X, Plumsweet IV, Taiyou, Zaiterki	7 [ ]
late to very late	Blackred XII, Florence, Ruby Star	8 [ ]
very late	Akihime, Autumn Giant, Golden King, September Yummy	9 [ ]



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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>Not visible</i>	<i>Green</i>

Comments:

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.]

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.

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