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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

JAPANESE PLUM

UPOV Code(s): PRUNU_CDS; PRUNU_PSC; PRUNU_ROS; PRUNU_SAE; PRUNU_SAP; PRUNU_SAV; PRUNU_SMU; PRUNU_SPE; PRUNU_SRP; PRUNU_SVP

to add "and interspecific hybrids" to common name?

Hybrids between *Prunus cerasifera* Ehrh., *P. domestica* L. and *P. salicina* Lindl.; Hybrids between *Prunus pumila*, *P. salicina* and *P. cerasifera*; *Prunus* ×*rossica* Eremin; *Prunus salicina* × *P. americana*; (*Prunus salicina* × *P. americana*) × *P. pumila* L. var. *besseyi*; Hybrids between *Prunus salicina* Lindl. and *P. avium* (L.) L.; *Prunus salicina* × *P. mume*; Hybrids between *Prunus salicina* Lindl. and *P. persica* (L.) Batsch; Hybrids between *Prunus salicina*, *P. armeniaca* and *P. persica*; *Prunus salicina* × *P. avium* × *P. persica*

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from France

to be considered by the

Technical Working Party for Fruit Crops
at its fifty-sixth session, to be held in in Bursa, Türkiye,
from 2025-06-23 to 2025-06-26

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

Alternative names:*

Botanical name	*English*	*French*	*German*	*Spanish*
Hybrids between *Prunus cerasifera* Ehrh., *P. domestica* L. and *P. salicina* Lindl.				
Hybrids between *Prunus pumila*, *P. salicina* and *P. cerasifera*				
Prunus ×*rossica* Eremin, *Prunus cerasifera* × *P. salicina*				
Prunus salicina × *P. americana*				
(*Prunus salicina* × *P. americana*) × *P. pumila* L. var. *besseyi*, (*Prunus salicina* × *P. americana*) × *P. besseyi*				
Hybrids between *Prunus salicina* Lindl. and *P. avium* (L.) L., *Prunus avium* (L.) L × *P. salicina* Lindl., *Prunus salicina* Lindl. × *P. avium* (L.) L.				
Prunus salicina × *P. mume*				
Hybrids between *Prunus salicina* Lindl. and *P. persica* (L.) Batsch, *Prunus persica* (L.) Batsch × *P. salicina* Lindl., *Prunus salicina* Lindl. × *P. persica* (L.) Batsch				
Hybrids between *Prunus salicina*, *P. armeniaca* and *P. persica*, *Prunus armeniaca* × *P. salicina* × *P. persica*, *Prunus salicina* × *P. armeniaca* × *P. persica*				
Prunus salicina × *P. avium* × *P. persica*				

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.

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1. Subject of these Test Guidelines

1.1 These Test Guidelines apply to all varieties of hybrids between *Prunus cerasifera* Ehrh., *P. domestica* L. and *P. salicina* Lindl., hybrids between *Prunus pumila*, *P. salicina* and *P. cerasifera*, *Prunus* ×*rossica* Eremin, *Prunus salicina* × *P. americana*, (*Prunus salicina* × *P. americana*) × *P. pumila* L. var. *besseyi*, hybrids between *Prunus salicina* Lindl. and *P. avium* (L.) L., *Prunus salicina* × *P. mume*, hybrids between *Prunus salicina* Lindl. and *P. persica* (L.) Batsch, hybrids between *Prunus salicina*, *P. armeniaca* and *P. persica*, *Prunus salicina* × *P. avium* × *P. persica, Prunus avium, Prunus persica and Prunus cerasifera,* in which the plum phenotype predominates.

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 budwood 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:

- budwood 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 the dormancy period, followed by bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period starts.

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: weight (characteristic 19)
(b) Fruit: ground color of skin (characteristic 33)
(c) Fruit: hue of over color (characteristic 34)
(d) Fruit: relative area of over color (characteristic 35)
(e) Fruit: color of flesh (characteristic 39)
(f) Time of beginning of flowering (characteristic 50)
(g) Time of beginning of fruit ripening (characteristic 51)

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/Merkmalstabelle/Tabla de caracteres

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.		**QN VG**	**(+) (a)**				
		Tree: vigor					
		very weak					1
		very weak to weak				ZAI122bisp	2
		weak				Satsuma, Suplumtwelve	3
		weak to medium					4
		medium				Autumn Giant, Obilnaya	5
		medium to strong				Gold Ball	6
		strong				Royal Diamond, Taiyou, Yummygiant	7
		strong to very strong				Methley	8
		very strong					9
2.	**(*)**	**PQ VG**	**(+) (a)**				
		Tree: habit					
		upright				Anne Gold, Formosa, Taiyou	1
		semi-upright				Laroda	2
		spreading				Ozark Premier, Shiro	3
		drooping				Yummygiant	4
3.		**PQ VG**	**(+) (a)**				
		One-year-old shoot: color					
		greyish brown				Taiyou	1
		yellow brown				Sordum	2
		medium brown				Methley	3
		reddish brown				Combination	4
4.		**QN MS/VG**					
		Spur: length					
		very short				Laroda, Sordum	1
		short					2
		medium				Frontier	3
		long					4
		very long				October Purple	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5. (*) QN MS/VG		**(b)**				
	Leaf blade: length					
	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, Sordum	7
	long to very long				Plumsweet IV	8
	very long					9
6. (*) QN MS/VG		**(b)**				
	Leaf blade: width					
	very narrow				Queen Gamet	1
	very narrow to narrow				Pioneer	2
	narrow				Beauty, Ozark Premier	3
	narrom to medium				Gold Ball	4
	medium				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
7. (*) QN MS/VG		**(b)**				
	Leaf blade: length/width ratio					
	low				Anne Gold, Casselman	1
	medium				Pioneer, Suplumtwenty	2
	high				Eclipse, Friandise, Lamoon	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8.	**(*)**	**PQ VG**	**(+) (b)**				
		Leaf blade: shape					
		ovate				Flavorella	1
		elliptic				October Purple, Suplumtwelve, Syokou, Taiyou	2
		obovate				Kanro, Pioneer, Suplumtwenty	3
		to check: triangular				Kelsey	4
9.	**(*)**	**PQ VG**	**(b)**				
		Leaf blade: color of upper side					
		light green				Ozark Premier, Taiyou	1
		medium green				Abundance, Laroda, Yummygiant	2
		dark green				Gaviota, Shiro	3
		reddish purple				Hollywood	4
10.	**(*)**	**PQ VG**	**(+) (b)**				
		Leaf blade: incisions of margin					
		crenate				Dapple Dandy, Friandise, Gaviota, Harry Pickstone	1
		bi-crenate				Golden Kiss, Pioneer, Suplumtwenty	2
		serrate					3
		bi-serrate				ZAI122bisp	4
11.	**(*)**	**QN MS/VG**	**(b)**				
		Petiole: length					
		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
12.		**QN MS/VG**	**(+) (c)**				
		Pedicel: length					
		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
13.	**(*)**	**QN MS/VG**	**(c)**				
		Flower: diameter					
		very small				Lamoon	1
		small				Nubiana, Suplumtwelve	2
		medium				Crimson Glo, October Purple, Shiro, Taiyou	3
		large				Kiyou, Methley, Zaiterla	4
		very large				ZAI122bisp	5
14.		**QN VG**	**(+) (c)**				
		Flower: arrangement of petals					
		free				Laroda, Yummygiant	1
		touching				Beauty, Harry Pickstone, Queen Garnet, Shiro	2
		overlapping				Anne Gold, Obilnaya	3
15.		**PQ VG**	**(+) (c)**				
		Petal: shape					
		elliptic				Formosa, Red Ace, Taiyou, Yummygiant	1
		circular				Plumsweetone, Shiro, Wickson, Zaipubo	2
		oblate				Wright's Early	3
		obovate					4

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.		**QN VG**	**(c)**				
		Petal: undulation of margin					
		absent or weak				Formosa, Redheart, Shiro, Taiyou, Yummygiant	1
		medium				Ozark Premier, Queen Ann, Suplumtwenty	2
		strong				Lady Red, Showtime	3
17.	**(*)**	**QN VG**	**(+) (c)**				
		Stigma: position in relation to anthers					
		below				Mariposa, Suplumtwenty, Yummygiant	1
		same level				Gold Ball, Methley	2
		above				Anne Gold, Obilnaya	3
18.	**(*)**	**QN MS/VG**	**(d)**				
		Fruit: length of stalk					
		very short					1
		short				Yonemomo, Zaiterla	2
		medium				Anne Gold, Sordum	3
		long				Crimson Glo, Hollywood	4
		very long				Primetime	5
19.	**(*)**	**QN MG/MS**	**(d)**				
		Fruit: weight					
		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, Songold	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20. (*)	**QN MS/VG**	**(+) (d)**				
	Fruit: height					
	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, Suplumtwenty, Valentine	7
	tall to very tall				Hengpral, Lamoon	8
	very tall					9
21. (*)	**QN MS/VG**	**(+) (d)**				
	Fruit: width					
	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, Sun Kiss	8
	very broad				Florence, Suplumtwenty	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (*) QN MS/VG		**(d)**				
	Fruit: ratio height/width					
	very small				Plumsweet XI, 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, ZAI122bisp	7
	high to very high				October Sun	8
	very high				Hengpral	9
23. (*) QN VG		**(+)**	**(d)**			
	Fruit: symmetry					
	symmetric or slightly asymmetric				Laroda, Shiro, Soryana	1
	moderately asymmetric				Formosa, Friar, Harry Pickstone	2
	strongly asymmetric				Anne Gold, Ozark Premier	3
24. (*) PQ VG		**(+)**	**(d)**			
	Fruit: shape in lateral view					
	cordate				Burbank, Hengpral	1
	oblate				Friar, Suplumtwenty	2
	oblong				Reubennel, ZAI048ISP	3
	circular				Golden Japan, Red Beauty, Shiro	4
	elliptic				October Sun, Ozark Premier, Taiyou	5
25. (*) PQ VG		**(+)**	**(d)**			
	Fruit: shape of base					
	truncate				Florence, Green Sun, Suplumtwelve	1
	depressed				Calita, Durado, Gabora , Suplumtwenty	2

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
26.	**(*)**	**PQ VG**	**(+) (d)**				
		Fruit: shape of apex					
		pointed				Golden Plumza, Hengpral, Lamoon	1
		rounded				Friandise, Shiro	2
		truncate				Angeleno, ZAI048ISP	3
		depressed				Dapple Dandy, Friar, Tereda	4
27.		**QN MS/VG**	**(+) (d)**				
		Fruit: depth of stalk cavity					
		shallow				Florence, Rubycrunch, Taiyou	1
		medium				Angeleno, Golden Japan, Nubiana	2
		deep				Laroda, Suplumtwelve, Yummygiant	3
28.		**QN MS/VG**	**(+) (d)**				
		Fruit: width of stalk cavity					
		narrow				Koike Sumomo, October Sun, Queen Garnet	1
		medium				Beni Ryozhen, Friandise	2
		broad				Blackred XII, Finroza	3
29.		**QN VG**	**(d)**				
		Fruit: depth of suture					
		absent or very shallow				Golden Japan, Methley, Sunrise	1
		shallow				Gold Ball, Pioneer, Taiyou	2
		medium				Formosa, Sordum	3
		deep				Akihime, Plumsweetone	4
30.	**(*)**	**QL VG**	**(d)**				
		Fruit: pubescence					
		absent				Golden Japan, Methley, Soryana	1
		present				Blackcot, ZAI122bisp, Zaiterla	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31.	**(*)**	**QN VG**	**(d)**				
		Only varieties with Fruit: pubescence: absent: Fruit: bloom of skin					
		weak				Ooishi Nakate, Red June, Soryana	1
		medium				Pioneer, Sordum, Yummygiant	2
		strong				Blackred XII, Friandise, Redyummy, Souvenir II	3
32.	**(*)**	**QL VG**	**(+) (d)**				
		Fruit: surface					
		smooth				Golden Japan, Soryana	1
		bumpy				Suplumtwelve, Suplumtwenty	2
33.	**(*)**	**PQ VG**	**(d)**				
		Fruit: ground color of skin					
		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
34.	**(*)**	**PQ VG**	**(+) (d)**				
		Fruit: hue of over color					
		none				Golden Japan	1
		orange yellow				Zairobe	2
		medium red				Red Beauty, Soryana	3
		dark red				Formosa, Starking Delicious, Taiyou	4
		purple				Karari, Yummygiant	5
		dark blue				Laroda, Suplumtwenty	6
		black				Angeleno, Blackred V, Blackred XII	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35. (*)	**QN VG**	**(d)**				
	Fruit: relative area of over color					
	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					5
	medium to large				Soryana	6
	large				Burbank, Taiyou	7
	large to very large				Plumred XI	8
	very large or whole surface				Friar, Suplumeleven	9
36. (*)	**PQ VG**	**(d)**				
	Fruit: pattern of over color					
	flecks only				Tiger, Zaiterla	1
	mottled				Burbank, Formosa, Omega	2
	solid flush only				Blackred XII, Friar, Taiyou	3
37. (*)	**QN VG**	**(d)**				
	Fruit: number of lenticels					
	few				ARC PR 3	1
	medium				Red Majesty, Sunrise	2
	many				Friandise, Polar Eclipse	3
38. (*)	**QN VG**	**(d)**				
	Fruit: size of lenticels					
	small				Obilnaya, Souvenir II, Sunset	1
	medium				Extreme, Friandise	2
	large				Plumsweet XI, Southern Belle	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
39. (*)	**PQ VG**	**(d)**				
	Fruit: color of flesh					
	whitish				Plumcandy X, Taiyou	1
	green					2
	yellowish green				Anne Gold, Shiro	3
	yellow				Angeleno, Golden Japan, Reubennel	4
	orange				Blackamber, 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
40.	**QN MS/VG**	**(+)**	**(d)**			
	Fruit: firmness					
	very soft				Shiro	1
	soft				Methley	2
	medium				Frontier, ZAI122bisp	3
	firm				Anne Gold, Laroda, Sun Kiss, Taiyou, Zaiterla	4
	very firm				Blackamber, Crimson Glo, Redyummy, Yummybeaut	5
41.	**QN MG/VG**	**(+)**	**(d)**			
	Fruit: juiciness					
	low				Autumn Giant, Burbank, Laroda	1
	medium				Friandise, Gaviota, Ozark Premier	2
	high				Reubennel, Santa Rosa, Shiro, Sun Kiss	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
42.		**QN MG**	**(+) (d)**				
		Fruit: acidity					
		low				Angeleno, Durado, Florence, Gold Ball, Lamoon	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
43.		**QN MG**	**(+) (d)**				
		Fruit: sweetness					
		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
44.	**(*)**	**QN VG**	**(+) (d)**				
		Fruit: adherence of stone to flesh					
		semi-adherent				Blackamber, Nubiana, Ruby Star, Taiyou	1
		adherent				Friandise, Red Majesty, Shiro, Sungold	2
45.	**(*)**	**QN MS/VG**	**(d)**				
		Stone: size in relation to fruit					
		very small				Suplumtwelve	1
		small				Sun Kiss	2
		medium				Queen Garnet	3
		large				Yummygiant	4
		very large				ZAI122bisp	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
46.	**PQ VG**	**(+)**	**(d)**			
	Stone: shape in lateral view					
	circular				Angeleno, Kelsey, Pioneer, Red Beauty	1
	medium elliptic				Friandise, Santa Rosa, Taiyou	2
	narrow elliptic				Eldorado, Lamoon, Plumred IX	3
	broad obovate					4
	medium obovate				African Rose	5
47.	**QN VG**	**(+)**	**(d)**			
	Stone: symmetry in lateral view					
	symmetric or slightly asymmetric				Angeleno, Frontier, Methley	1
	moderately asymmetric				Friandise, Golden Plumza, Shiro	2
	strongly asymmetric				Blackred VI, Obilnaya, Plumred III	3
48.	**PQ VG**	**(+)**	**(d)**			
	Stone: texture of lateral surfaces					
	fine grained				Eldorado, Methley, Obilnaya	1
	granular				Nubiana, Pioneer	2
	rough				Laroda, Songold, Zaipubo	3
	hammered				Harry Pickstone, Ozark Premier, Suplumtwenty, Yummygiant	4
49.	**QN VG**	**(+)**	**(d)**			
	Stone: width of stalk-end					
	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
50. (*)	**QN MG**	**(+)**				
	Time of beginning of flowering					
	very early				Blackred VI, Durado, Karari	1
	very early to early				African Rose, Blackred I, Plumred VII, Red Beauty	2
	early				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
51. (*)	**QN MG**	**(+)**				
	Time of beginning of fruit ripening					
	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, Yummybeaut	3
	early to medium				Anne Gold, Blackcot, Soryana	4
	medium				Crimson Glo, Gaviota, Suplumtwelve	5
	medium to late				Lamoon, 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 should be made on fully developed leaves from the middle third of a well- developed current season's shoot.

(c) Observations should be made on fully developed flowers.

(d) Observations should be made on mature fruits, at time of eating maturity.

8.2 Explanations for individual characteristics

Ad. 1: Tree: vigor

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

Ad. 2: Tree: habit

1 upright | 2 upright to spreading | 3 spreading | 4 drooping

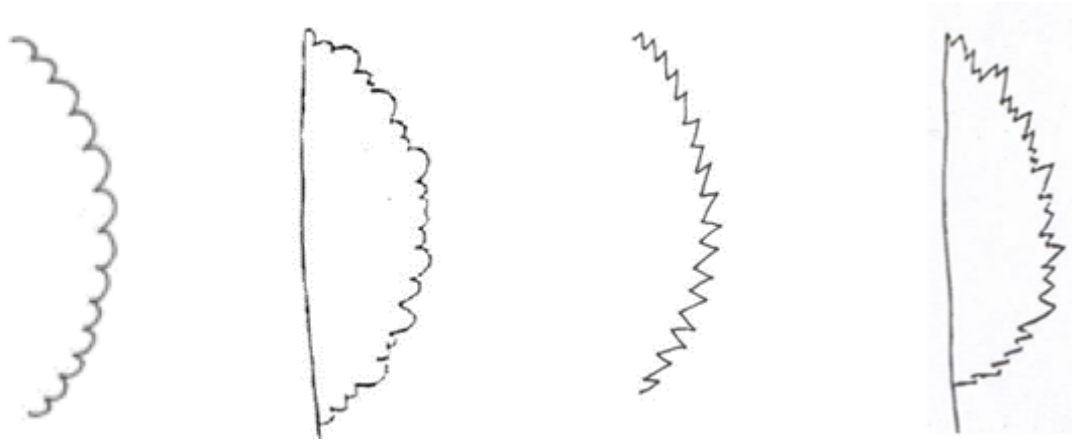
Ad. 3: One-year-old shoot: color

Observations should be made on the sunny side of one-year-old shoots, at the central third of the shoots.

Ad. 8: Leaf blade: shape

1 ovate | 2 elliptic | 3 obovate

Ad. 10: Leaf blade: incisions of margin



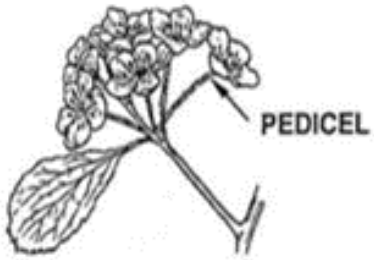
1
crenate

2
bi-crenate

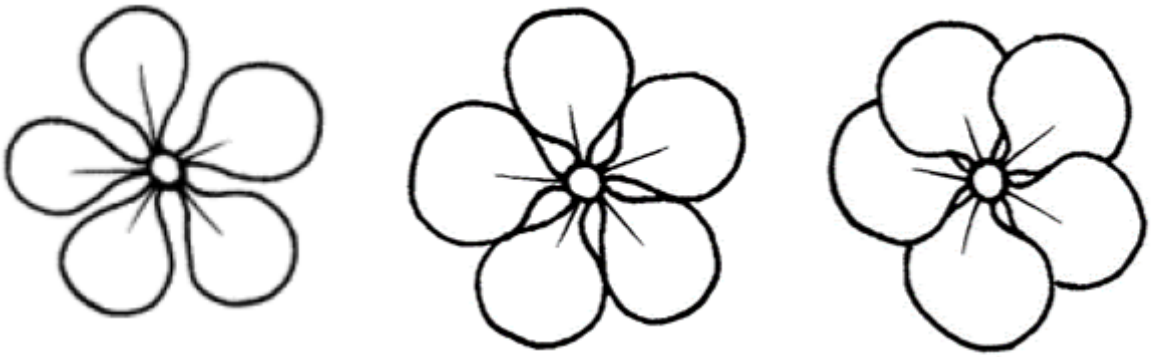
3
serrate

4
bi-serrate

Ad. 12: Pedicel: length



Ad. 14: Flower: arrangement of petals



1
free

2
touching

3
overlapping

Ad. 15: Petal: shape

← broadest part →	
at middle	(above middle)

broad (compressed) ← width (ratio length/width) → narrow (elongated)

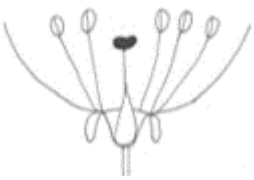
1
elliptic

2
circular

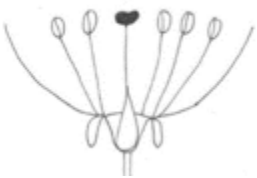
4
obovate

3
oblate

Ad. 17: Stigma: position in relation to anthers



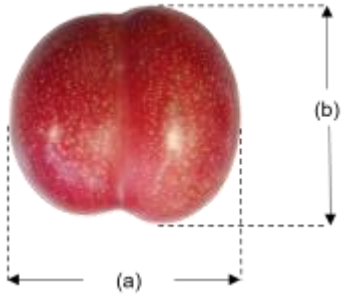
1
below



2
same level

3
above

Ad. 20: Fruit: height



(a) Width in ventral view
(b) Height

Ad. 21: Fruit: width

See Ad. 30.

Observations should be made in ventral view.

Ad. 23: Fruit: symmetry

Observations should be made in ventral view.

1
symmetric or slightly asymmetric

2
moderately asymmetric

3
strongly asymmetric

Ad. 24: Fruit: shape in lateral view

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

Ad. 25: Fruit: shape of base


1
truncate


2
depressed

Ad. 26: Fruit: shape of apex

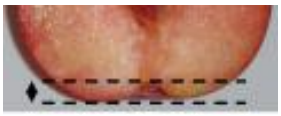

1
pointed


2
rounded


3
truncate


4
depressed

Ad. 27: Fruit: depth of stalk cavity



1
shallow

2
medium

3
deep

Ad. 28: Fruit: width of stalk cavity

1
narrow

2
medium

3
broad

Ad. 32: Fruit: surface

1
smooth

9
bumpy

Ad. 34: Fruit: hue of over color

Observations should be made after removing bloom.

Ad. 40: Fruit: firmness

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

Ad. 41: 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. 42: Fruit: acidity

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

Observations should be made using degrees Brix.

Ad. 44: Fruit: adherence of stone to flesh

Observations should be made on the part of the stone that is linked to the flesh on an open fruit.

Ad. 46: Stone: shape in lateral view

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

Ad. 47: Stone: symmetry in lateral view

1
symmetric or slightly asymmetric

2
moderately asymmetric

3
strongly asymmetric

Ad. 48: Stone: texture of lateral surfaces

1
fine grained

2
granular

3
rough

4
hammered

Ad. 49: Stone: width of stalk-end

1
narrow

2
medium

3
broad

Ad. 50: Time of beginning of flowering

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

Ad. 51: Time of beginning of fruit ripening

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

9. Literature

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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

1.1.1	Botanical name	Hybrids between *Prunus cerasifera* Ehrh., *P. domestica* L. and *P. salicina* Lindl.	[ ]
1.1.2	Common name		
1.2.1	Botanical name	Hybrids between *Prunus pumila*, *P. salicina* and *P. cerasifera*	[ ]
1.2.2	Common name		
1.3.1	Botanical name	*Prunus* ×*rossica* Eremin	[ ]
1.3.2	Common name		
1.4.1	Botanical name	*Prunus salicina* × *P. americana*	[ ]
1.4.2	Common name		
1.5.1	Botanical name	(*Prunus salicina* × *P. americana*) × *P. pumila* L. var. *besseyi*	[ ]
1.5.2	Common name		
1.6.1	Botanical name	Hybrids between *Prunus salicina* Lindl. and *P. avium* (L.) L.	[ ]
1.6.2	Common name		
1.7.1	Botanical name	*Prunus salicina* × *P. mume*	[ ]
1.7.2	Common name		
1.8.1	Botanical name	Hybrids between *Prunus salicina* Lindl. and *P. persica* (L.) Batsch	[ ]
1.8.2	Common name		
1.9.1	Botanical name	Hybrids between *Prunus salicina*, *P. armeniaca* and *P. persica*	[ ]
1.9.2	Common name		

1.10.1	Botanical name	*Prunus salicina* × *P. avium* × *P. persica*	[ ]
1.10.2	Common name		
1.11.1	Botanical name	*Prunus salicina* x (*Prunus salicina* x *Prunus armeniaca*), and other hybrids involving *Prunus salicina* and *Prunus armeniaca* in which the plum phenotype predominates	[ ]
1.11.2	Common name	interspecific plum	
1.12.1	Botanical name	hybrids between *Prunus salicina* and one or more of *Prunus armeniaca*, *Prunus persica*, *Prunus avium* and *Prunus cerasifera*, in which the plum phenotype predominates	[ ]
1.12.2	Common name	interspecific plum	
1.13.1	Botanical name	*Prunus x limeixing*; *Prunus salicina* x *Prunus ameniaca*	[ ]
1.13.2	Common name	plumcot	

2. Applicant

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

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

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

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

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross [ ]

(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 Other [ ]
(Please provide details)

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

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4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) Cuttings [ ]
(b) *In vitro* propagation [ ]
(c) Budding or grafting [ ]
(d) Other (state method) [ ]

4.2.2 Other [ ]
(Please provide details)

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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
5.1 (19)	**Fruit: weight**		
	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, Songold	9 [ ]
5.2 (24)	**Fruit: shape in lateral view**		
	cordate	Burbank, Hengpral	1 [ ]
	oblate	Friar, Suplumtwenty	2 [ ]
	oblong	Reubennel, ZAI048ISP	3 [ ]
	circular	Golden Japan, Red Beauty, Shiro	4 [ ]
	elliptic	October Sun, Ozark Premier, Taiyou	5 [ ]
5.3 (30)	**Fruit: pubescence**		
	absent	Golden Japan, Methley, Soryana	1 [ ]
	present	Blackcot, ZAI122bisp, Zaiterla	9 [ ]
5.4 (33)	**Fruit: ground color of skin**		
	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
5.5 (34)	**Fruit: hue of over color**		
	none	Golden Japan	1 [ ]
	orange yellow	Zairobe	2 [ ]
	medium red	Red Beauty, Soryana	3 [ ]
	dark red	Formosa, Starking Delicious, Taiyou	4 [ ]
	purple	Karari, Yummygiant	5 [ ]
	dark blue	Laroda, Suplumtwenty	6 [ ]
	black	Angeleno, Blackred V, Blackred XII	7 [ ]
5.6 (35)	**Fruit: relative area of over color**		
	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		5 [ ]
	medium to large	Soryana	6 [ ]
	large	Burbank, Taiyou	7 [ ]
	large to very large	Plumred XI	8 [ ]
	very large or whole surface	Friar, Suplumeleven	9 [ ]
5.7 (39)	**Fruit: color of flesh**		
	whitish	Plumcandy X, Taiyou	1 [ ]
	green		2 [ ]
	yellowish green	Anne Gold, Shiro	3 [ ]
	yellow	Angeleno, Golden Japan, Reubennel	4 [ ]
	orange	Blackamber, 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 [ ]

	Characteristics	Example Varieties	Note
5.8 (50)	**Time of beginning of flowering**		
	very early	Blackred VI, Durado, Karari	1 [ ]
	very early to early	African Rose, Blackred I, Plumred VII, Red Beauty	2 [ ]
	early	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 [ ]
5.9 (51)	**Time of beginning of fruit ripening**		
	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, Yummybeaut	3 [ ]
	early to medium	Anne Gold, Blackcot, Soryana	4 [ ]
	medium	Crimson Glo, Gaviota, Suplumtwelve	5 [ ]
	medium to late	Lamoon, 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 **similar** variety(ies)	Describe the expression of the characteristic(s) for **your** candidate variety
Example	*Fruit: ground color of skin*	*Not visible*	*Green*

Comments:

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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.]

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

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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]