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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

REGAL PELARGONIUM

UPOV Code: PELAR_GRD; PELAR_DOM;
 PELAR_CRI; PELAR_CDO

Pelargonium grandiflorum (Andrews) Willd.;
P. x domesticum L.H. Bailey;
P. crispum (P.J. Bergius) L'Hér. and
 hybrids between these species

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from Germany

to be considered by the

*Technical Working Party for Ornamental Plants and Forest Trees
 at its forty-sixth session, to be held in Melbourne, Australia, from April 22 to 26, 2013*

Alternative Names:^{*}

Botanical name	English	French	German	Spanish
<i>Pelargonium grandiflorum</i> (Andrews) Willd.	Large-flower Pelargonium	Pélarгонium des fleuristes	Edelpelargonie	
<i>P. x domesticum</i> L.H. Bailey	Regal Pelargonium			
<i>P. crispum</i> (P.J. Bergius) L'Hér.	Crisped-leaf Pelargonium		Zitronenduft-Pelargonie	

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

ASSOCIATED DOCUMENTS

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

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

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Pelargonium grandiflorum* (Andrews) Willd., *P. x domesticum* L.H. Bailey, *P. crispum* (P.J. Bergius) L'Hér. and hybrids between these 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 rooted cuttings.

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

15 rooted cuttings.

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*

The minimum duration of tests should normally be a single growing cycle.

3.2 *Testing Place*

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

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. Except where otherwise indicated, the optimum stage of development for the assessment of the characteristics is at the time of full flowering.

3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 15 plants.

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 / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of 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 For the assessment of uniformity a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 12 plants, 1 off-type is 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) Plant: height (characteristic 1)
 - (b) Flower: width (characteristic 11)
 - (c) Upper petal: color of middle (characteristic 18)
 - (d) Lower petal: color of middle (characteristic 24)
- (c) and (d) with the following groups:
- Gr. 1: white
 - Gr. 2: light pink
 - Gr. 3: medium pink
 - Gr. 4: dark pink
 - Gr. 5: light red
 - Gr. 6: medium red
 - Gr. 7: dark red
 - Gr. 8: purple
 - Gr. 9: violet

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 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

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*

- (*) Asterisked characteristic – see Chapter 6.1.2
- QL Qualitative characteristic – see Chapter 6.3
- QN Quantitative characteristic – see Chapter 6.3
- PQ Pseudo-qualitative characteristic – see Chapter 6.3
- MG, MS, VG, VS – see Chapter 4.1.5
- (a)-(b) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2.

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1. VG/MS (* (+)	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
QN	very short	très basse	sehr niedrig	muy baja		1
	short	basse	niedrig	baja		3
	medium	moyenne	mittel	media		5
	tall	haute	hoch	alta		7
	very tall	très haute	sehr hoch	muy alta		9
	extremely tall	extrêmement haute	extrem hoch	extremamente alta		11
2. VG/MS	Plant: width	Plante : largeur	Pflanze: Breite	Planta: anchura		
QN	very narrow	très étroite	sehr schmal	muy estrecha		1
	narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7
	very broad	très large	sehr breit	muy ancha		9
	extremely broad	extrêmement large	extrem breit	extremamente ancha		11
3. VG/MS (* (+)	Leaf blade: length	Limbe : longueur	Blattspreite: Länge	Limbo: longitud		
QN (a)	short	courte	kurz	corta		3
	medium	moyenne	mittel	media		5
	long	longue	lang	larga		7
4. VG/MS (* (+)	Leaf blade: width	Limbe : largeur	Blattspreite: Breite	Limbo: anchura		
QN (a)	narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media		5
	broad	large	breit	ancha		7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
5.	VG	Leaf blade: base	Limbe : base	Blattspreite: Basis	Limbo: base	
	(+)					
QN	(a)	wide open	très ouverte	weit offen	muy abierta	1
		slightly open	peu ouverte	etwas offen	ligeramente abierta	3
		closed	fermée	geschlossen	cerrada	5
		slightly overlapping	à lobes peu chevauchants	gering überlappend	parcialmente solapada	7
		strongly overlapping	à lobes très chevauchants	stark überlappend	fuertemente solapada	9
6.	VG	Leaf blade: depth of sinus	Limbe : profondeur du sinus	Blattspreite: Tiefe der Einbuchtungen	Limbo: profundidad de los senos	
	(*)					
	(+)					
QN	(a)	absent or very shallow	absente ou très peu profonde	fehlend oder sehr flach	ausente o muy poco profunda	1
		shallow	peu profonde	flach	poco profunda	3
		medium	moyenne	mittel	media	5
		deep	profonde	tief	profunda	7
		very deep	très profonde	sehr tief	muy profunda	9
7.	VG	Leaf blade: indentation of margin	Limbe : denticulation du bord	Blattspreite: Randeinschnitte	Limbo: indentación del borde	
	(+)					
QN	(a)	absent or very shallow	absente ou très peu profonde	fehlend oder sehr flach	ausente o muy poco profunda	1
		shallow	peu profonde	flach	poco profunda	3
		medium	moyenne	mittel	media	5
		deep	profonde	tief	profunda	7
		very deep	très profonde	sehr tief	muy profunda	9
8.	VG	Leaf blade: variegation	Limbe : panachure	Blattspreite: Panaschierung	Limbo: variegación	
	(*)					
	(+)					
QL	(a)	absent	absente	fehlend	ausente	1
		present	présente	vorhanden	presente	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
9.	VG	Leaf blade: intensity of green color	Limbe : intensité de la couleur verte	Blattspreite: Intensität der Grünfärbung	Limbo: intensidad del color verde	
QN	(a)	light	clair	hell	claro	1
		light to medium	clair à moyen	hell bis mittel	claro a medoi	2
		medium	moyen	mittel	medio	3
		medium to dark	moyen à foncé	mittel bis dunkel	medio a oscuro	4
		dark	foncé	dunkel	oscuro	5
10.	VG/ MS	Flower: length	Fleur : longueur	Blüte: Länge	Flor: longitud	
(+)						
QN		very short	très courte	sehr kurz	muy corta	1
		short	courte	kurz	corta	3
		medium	moyenne	mittel	media	5
		long	longue	lang	larga	7
		very long	très longue	sehr lang	muy larga	9
		extremely long	extrêmement longue	extrem lang	extremamente larga	11
11.	VG/ MS	Flower: width	Fleur : largeur	Blüte: Breite	Flor: anchura	
(*)						
(+)						
QN		very narrow	très étroite	sehr schmal	muy estrecha	1
		narrow	étroite	schmal	estrecha	3
		medium	moyenne	mittel	media	5
		broad	large	breit	ancha	7
		very broad	très large	sehr breit	muy ancha	9
		extremely broad	extrêmement large	extrem breit	extremamente ancha	11
12.	VG/ MS	Sepal: length	Sépale : longeur	Kelchblatt: Länge	Sépalo:	
(*)						
QN	(b)	very short	très courte	sehr kurz	muy corta	1
		short	courte	kurz	corta	2
		medium	moyenne	mittel	media	3
		long	longue	lang	larga	4
		very long	très longue	sehr lang	muy larga	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
13.	VG/ MS	Sepal: width	Sépale : largeur	Kelchblatt: Breite	Sepalo: anchura	
QN	(b)	very narrow	très étroite	sehr schmal	muy estrecha	1
		narrow	étroite	schmal	estrecha	2
		medium	moyenne	mittel	media	3
		broad	large	breit	ancha	4
		very broad	très large	sehr breit	muy ancha	5
14.	VG	Sepal: anthocyanin coloration	Sépale : pigmentation	Kelchblatt: Anthocyanfärbung	Sepalo: pigmentación	
QN	(b)	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	1
		weak	faible	gering	débil	2
		medium	moyenne	mittel	media	3
		strong	forte	stark	fuerte	4
		very strong	très forte	sehrstark	muy fuerte	5
15.	VG (+)	Upper petal: undulation of margin	Pétale supérieur : ondulation du bord	Oberes Blütenblatt: Wellung des Randes	Pétalo superior: ondulación del borde	
QN		absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	1
		weak	faible	gering	débil	2
		medium	moyenne	mittel	media	3
		strong	forte	stark	fuerte	4
		very strong	très forte	sehrstark	muy fuerte	5
16.	VG (*) (+)	Upper petal: color of margin	Pétale supérieur : couler du bord	Oberes Blütenblatt: Farbe des Randes	Pétalo superior: color du borde	
PQ		RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)	
17.	VG (*) (+)	Upper petal: color between margin and middle		Oberes Blütenblatt: Farbe zwischen Rand und Mitte		
PQ		RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)	
18.	VG (*) (+)	Upper petal: color of middle	Pétale supérieur : couleur de la partie centrale	Oberes Blütenblatt: Farbe der Mitte	Pétalo superior: color de la zona media	
PQ		RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)	

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
19. VG (*) (+)	Upper petal: size of marking	Pétale supérieur : taille de la tache	Oberes Blütenblatt: Größe des Flecks	Pétalo superior: tamaño de la mancha		
QN	absent or very small	nulle ou très petite	fehlendodersehrklein	ausente o muy pequeno		1
	small	petite	klein	pequeno		3
	medium	moyenne	mittel	media		5
	large	grande	groß	grande		7
	very large	très grande	sehr groß	muy grande		9
20. VG (*) (+)	Upper petal: size of zone at base	Pétale supérieur : taille de la zone à base	Oberes Blütenblatt: Größe der Zone an der Basis	Pétalo superior: tamaño de la zona en la base		
QN	absent or very small	nulle ou très petite	fehlendodersehrklein	ausente o muy pequeno		1
	small	petite	klein	pequeno		3
	medium	moyenne	mittel	media		5
	large	grande	groß	grande		7
	very large	très grande	sehr groß	muy grande		9
21. VG (*) (+)	Upper petal: color of zone at base	Pétale supérieur : couleur de la zone à la base	Oberes Blütenblatt: Farbe der Zone an der Basis	Pétalo superior: color de la zona en la base		
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)		
22. VG (*) (+)	Lower petal: color of margin	Pétale inférieur : couleur du bord	Unteres Blütenblatt: Farbe des Randes	Pétalo inferior: color du borde		
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)		
23. VG (*) (+)	Lower petal: color between margin and middle		Unteres Blütenblatt: Farbe zwischen Rand und Mitte			
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)		
24. VG (*) (+)	Lower petal: color of middle	Pétale inférieur : couler de la partie centrale	Unteres Blütenblatt: Farbe der Mitte	Pétalo inferior: color de la zona media		
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta des colores RHS (indíquese el número de referencia)		

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
25. VG (+)	Lower petal: size of marking	Pétale inférieur : taille de la tache	UnteresBlütenblatt: Größe des Flecks	Pétalo inferior: tamaño de la mancha		
QN	absent or very small	nulle ou très petite	fehlend oder sehr klein	ausente o muy pequeno		1
	small	petite	klein	pequeno		3
	medium	moyenne	mittel	media		5
	large	grande	groß	grande		7
	very large	très grande	sehr groß	muy grande		9
26. VG (*) (+)	Lower petal: size of zone at base	Pétale inférieur : taille de la zone à base	UnteresBlütenblatt: Größe der Zone an der Basis	Pétalo inferior: tamaño de la zona en la base		
QN	absent or very small	nulle ou très petite	Fehlend oder sehr klein	ausente o muy pequeno		1
	small	petite	klein	pequeno		2
	medium	moyenne	mittel	media		3
	large	grande	groß	grande		4
	very large	très grande	sehr groß	muy grande		5
27. VG (+)	Lower petal: color of zone at base	Pétale inférieur : couleur de la zone à la base	Unteres Blütenblatt: Farbe der Zone an der Basis	Pétalo inferior: color de la zona en la base		
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Code RHS des couleurs (indiquer le numéro de référence)		

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Unless otherwise indicated, all observations should be made at the time of full flowering.

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

- (a) All observations on the leaf should be made on the upper side of fully developed leaves from the middle part of the plant.
- (b) All observations on the sepal should be made on the broadest sepal.

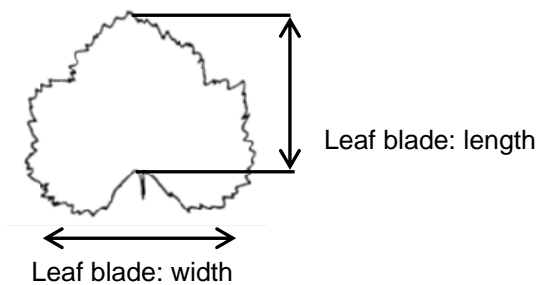
8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height

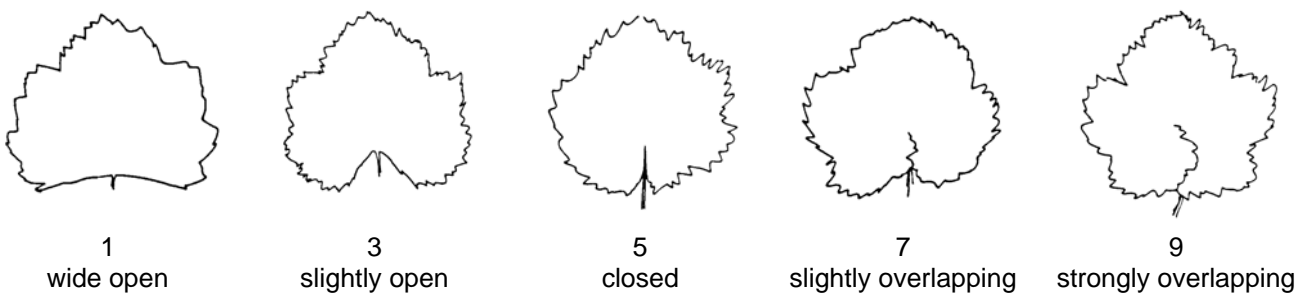
The plant height should be observed on the longest shoot from the ground to the top of the uppermost flowers.

Ad. 3: Leaf blade: length

Ad. 4: Leaf blade: width

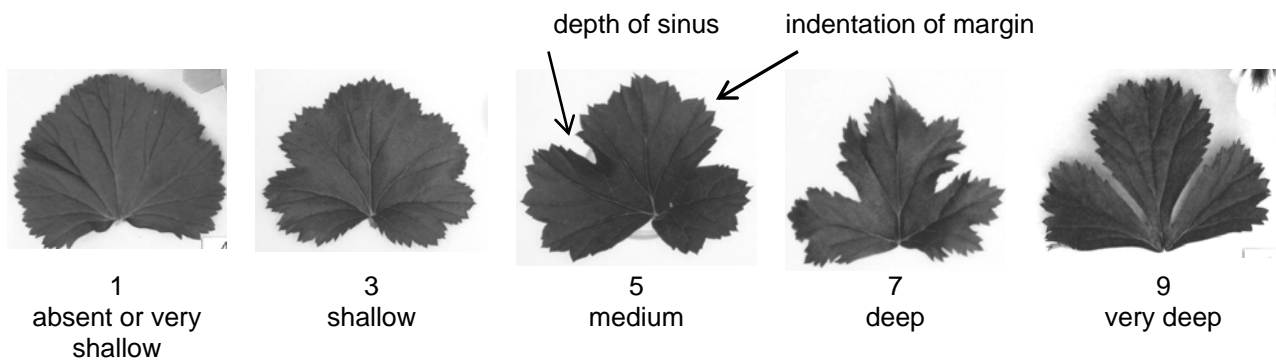


Ad. 5: Leaf blade: base

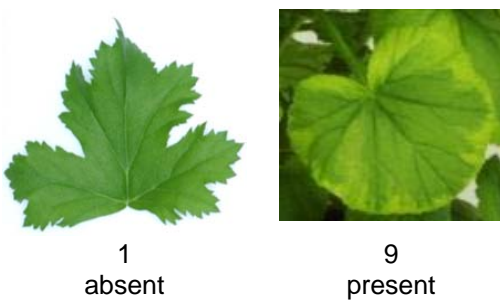


Ad. 6: Leaf blade: depth of sinus

Ad. 7: Leaf blade: indentation of margin

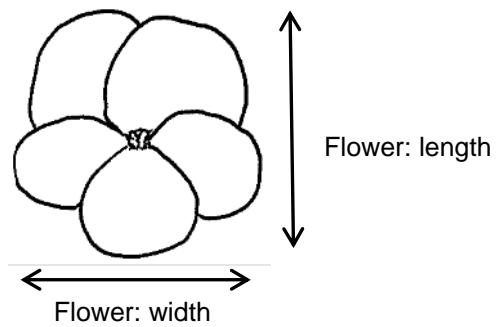


Ad. 8: Leaf blade: variegation

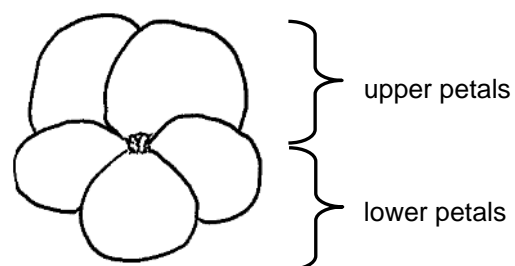


Ad. 10: Flower: length

Ad. 11: Flower: width



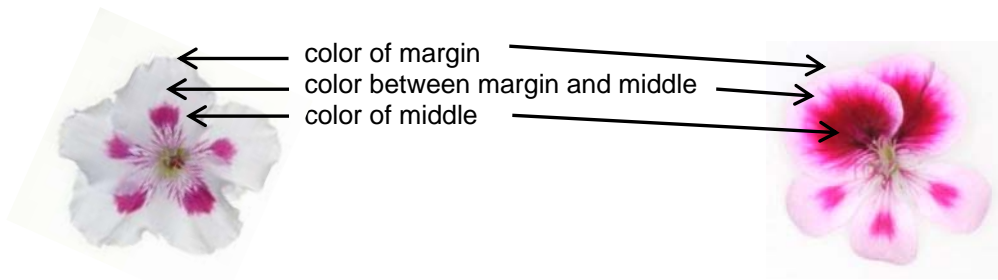
Ad. 15: Upper petal: undulation of margin



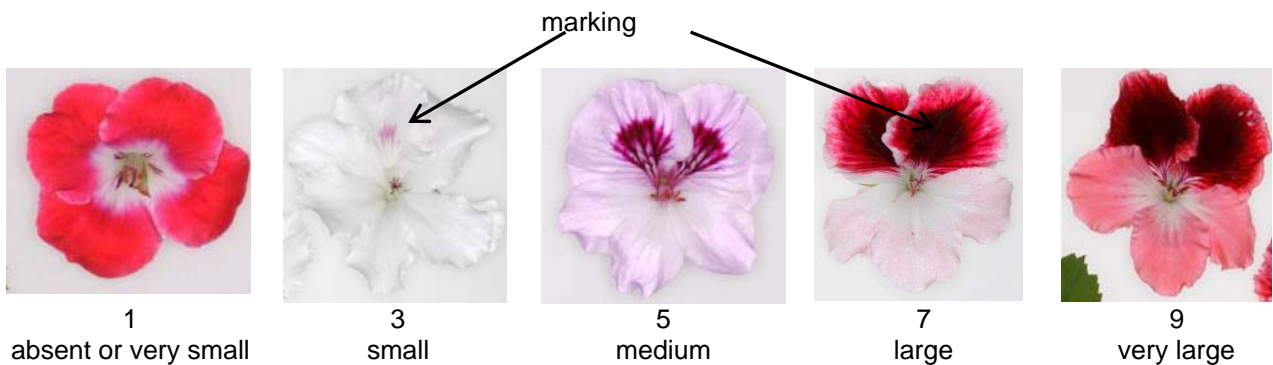
Ad. 16: Upper petal: color of margin

Ad. 17: Upper petal: color between margin and middle

Ad. 18: Upper petal: color of middle



Ad. 19: Upper petal: size of marking



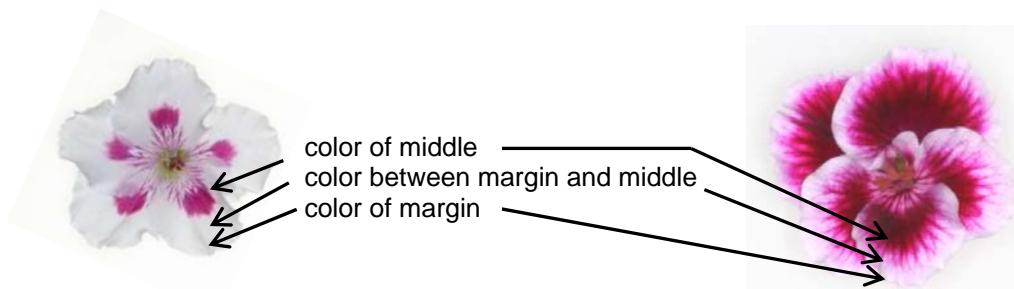
Ad. 20: Upper petal: size of zone at base



Ad. 22: Lower petal: color of margin

Ad. 23: Lower petal: color between margin and middle

Ad. 24: Lower petal: color of middle



Ad. 25: Lower petal: size of marking



1
absent or very small



3
small



5
medium



7
large



9
very large

marking

Ad. 26: Lower petal: size of zone at base



1
absent or very small



2
small



3
medium



4
large

9. Literature

Maatschet et al., 1977: Pelargonien, Verlag, Paul Parey, Berlin, Hamburg, DE

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 Genus	<input type="text" value="Pelargonium L."/>	
1.2 Species (please complete)		
1.2.1 Botanical name	<input type="text" value="Pelargonium grandiflorum (Andrews) Willd."/>	[]
1.2.2 Botanical name	<input type="text" value="Pelargonium x domesticum L.H. Bailey"/>	[]
1.2.3 Botanical name	<input type="text" value="Pelargonium crispum (P.J. Bergius) L'Hér."/>	[]
1.3 Hybrid	<input type="text"/>	[]
Species (please complete)	<input type="text"/>	
2. Applicant		
	<input type="text"/>	
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)		
Breeder's reference		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
#4. Information on the breeding scheme and propagation of the variety		
4.1 Breeding scheme		
Variety resulting from:		
4.1.1 Crossing		
(a) controlled cross (please state parent varieties)		[]
(.....) female parent	x	(.....) male parent
(b) partially known cross (please state known parent variety(ies))		[]
(.....) female parent	x	(.....) male parent
(c) unknown cross		[]
4.1.2 Mutation (please state parent variety)		[]
<div style="border: 1px solid black; height: 45px;"></div>		
4.1.3 Discovery and development (please state where and when discovered and how developed)		[]
<div style="border: 1px solid black; height: 45px;"></div>		
4.1.4 Other (please provide details)		[]
<div style="border: 1px solid black; height: 60px;"></div>		
4.2 Method of propagating the variety		
4.2.1 Vegetative propagation		
(a) cuttings		[]
(b) <i>in vitro</i> propagation		[]
(c) other (state method)		[]
<div style="border: 1px solid black; height: 40px;"></div>		
4.2.2 Other (please provide details)		[]

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

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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 Plant: height (1) very short very short to short short short to medium medium medium to tall tall tall to very tall very tall very tall to extremely tall extremely tall		1[] 2[] 3[] 4[] 5[] 6[] 7[] 8[] 9[] 10[] 11[]
5.2 Flower: width (11) very narrow very narrow to narrow narrow narrow to medium medium medium to broad broad broad to very broad very broad very broad to extremely broad extremely broad		1[] 2[] 3[] 4[] 5[] 6[] 7[] 8[] 9[] 10[] 11[]
5.3i Upper petal: color of margin (16) RHS Colour Chart (indicate reference number)	

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note	
5.3ii Upper petal: color of margin (16)			
white			1[]
light pink			2[]
medium pink			3[]
dark pink			4[]
light red			5[]
medium red			6[]
dark red			7[]
purple			8[]
violet			9[]
other color (indicate which)		10[]
5.4i Upper petal: color of middle (18)			
RHS Colour Chart (indicate reference number)		
5.4ii Upper petal: color of middle (18)			
white			1[]
light pink			2[]
medium pink			3[]
dark pink			4[]
light red			5[]
medium red			6[]
dark red			7[]
purple			8[]
violet			9[]
other color (indicate which)		10[]
5.5i Lower petal: color of margin (22)			
RHS Colour Chart (indicate reference number)		

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics	Example Varieties	Note	
5.5ii	Lower petal: color of margin		
(22)			
	white		1[]
	light pink		2[]
	medium pink		3[]
	dark pink		4[]
	light red		5[]
	medium red		6[]
	dark red		7[]
	purple		8[]
	violet		9[]
	other color (indicate which)	10[]
5.6i	Lower petal: color of middle		
(24)			
	RHS Colour Chart (indicate reference number)	
5.6ii	Lower petal: color of middle		
(24)			
	white		1[]
	light pink		2[]
	medium pink		3[]
	dark pink		4[]
	light red		5[]
	medium red		6[]
	dark red		7[]
	purple		8[]
	violet		9[]
	other color (indicate which)	10[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>6. Similar varieties and differences from these varieties</p> <p><i>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.</i></p>			
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
<i>Example</i>	<i>Plant: height</i>	<i>small</i>	<i>medium</i>
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:												
<p>9. Information on plant material to be examined or submitted for examination.</p> <p>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.</p> <p>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:</p> <table><tbody><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes []</td><td>No []</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes []</td><td>No []</td></tr><tr><td>(c) Tissue culture</td><td>Yes []</td><td>No []</td></tr><tr><td>(d) Other factors</td><td>Yes []</td><td>No []</td></tr></tbody></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(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 []
(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 []												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <p>Applicant's name <input type="text"/></p> <p>Signature <input type="text"/> Date <input type="text"/></p>														

[End of document]