



TG/RANUN(proj.2)

ORIGINAL: English

DATE: 2019-01-04

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

RANUNCULUS

UPOV Code(s):

RANUN

Ranunculus L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from Japan
to be considered by the*

*Technical Working Party for Ornamental Plants and Forest Trees
at its fifty-first session, to be held in Christchurch, New Zealand,
from 2019-02-18 to 2019-02-22*

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Ranunculus L.</i>	Buttercup, Ranunculus	Renoncule	Hahnenfuß	Botón de oro, Ranúnculo

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 *Ranunculus* L..

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of corms, young plants or seed.

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

vegetatively propagated varieties: 20 corms or 20 young plants
seed-propagated varieties: a sufficient quantity of seed to produce 40 plants.

In the case of seed, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

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.

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 In the case of vegetatively propagated varieties, each test should be designed to result in a total of at least 20 plants.

3.4.2 In the case of seed-propagated varieties, each test should be designed to result in a total of at least 40 plants.

3.4.3 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

In the case of vegetatively propagated varieties, 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 observation made on all plants in the test, disregarding any off-type plants.

In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation 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 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 and seed-propagated cross-pollinated 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 The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.4 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 20 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 seed or 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) Basal leaf: type (characteristic 3)
- (c) Cauline leaf: type (characteristic 7)
- (d) Inflorescence: number of flowers (characteristic 13)
- (e) Flower: type (characteristic 16)
- (f) Flower: diameter (characteristic 17)
- (g) Petal: main color of inner side (characteristic 24) with the following groups:
 - Group 1: green
 - Group 2: yellow
 - Group 3: orange
 - Group 4: pink
 - Group 5: red
 - Group 6: purple
 - Group 7: white
- (h) Petal: secondary color of inner side (characteristic 25) with the following groups:
 - Group 1: green
 - Group 2: yellow
 - Group 3: orange
 - Group 4: pink
 - Group 5: red
 - Group 6: purple
 - Group 7: white
- (i) Petal: distribution of secondary color of inner side (characteristic 26)

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

	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)-(c) 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	MG/MS/VG	(+)			
	Plant: height					
	short					3
	medium				SEIREN	5
	tall				RAX ARTEMIS	7
2.	QN	MG/MS/VG				
	Plant: width					
	narrow					3
	medium					5
	broad				RAX ARTEMIS	7
3. (*)	QL	VG	(+)			
	Basal leaf: type					
	simple				SEIREN	1
	ternate					2
	biterminate					3
	triterminate					4
4.	QN	MG/MS/VG	(+)			
	Basal leaf: length of petiole					
	short					3
	medium					5
	long					7
5. (*)	QN	MG/MS/VG	(+)			
	Basal leaf: length of leaf blade					
	short					3
	medium					5
	long					7
6. (*)	QN	MG/MS/VG	(+)			
	Basal leaf: width of leaf blade					
	narrow					3
	medium					5
	broad					7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. (*)	QL VG	(+)				
	Cauline leaf: type					
	simple				SEIREN	1
	termate					2
	bitermate					3
	tritermate					4
8.	QN MG/MS/VG	(+)				
	Cauline leaf: length of petiole					
	short				YUZUTEMARI	3
	medium					5
	long					7
9. (*)	QN MG/MS/VG	(+)				
	Cauline leaf: length of leaf blade					
	short					3
	medium				YUZUTEMARI	5
	long					7
10. (*)	QN MG/MS/VG	(+)				
	Cauline leaf: width of leaf blade					
	narrow					3
	medium				YUZUTEMARI	5
	broad					7
11.	PQ VG	(a)				
	Cauline leaf: main color of upper side					
	light green					1
	medium green					2
	dark green					3
12.	QN VG					
	Cauline leaf: glossiness					
	absent or weak					1
	medium				YUZUTEMARI	2
	strong					3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13. (*)	QN	MG/MS/VG				
	Inflorescence: number of flowers					
	very few					1
	few					2
	medium					3
	many				RAX EUROPE	4
	very many					5
14.	QN	MG/MS/VG	(+)			
	Flowering stem: length					
	short					3
	medium				SEIREN	5
	long				YUZUTEMARI	7
15.	QN	MG/MS/VG	(+)			
	Flowering stem: thickness					
	very thin					1
	thin					2
	medium				YUZUTEMARI	3
	thick					4
	very thick					5
16.	QL	VG	(+)	(b)		
	Flower: type					
	single					1
	semi-double					2
	double					3
17. (*)	QN	MG/MS/VG	(+)	(b)		
	Flower: diameter					
	small				RAX HADES	3
	medium				YUZUTEMARI	5
	large					7
18.	QN	MG/MS/VG	(+)	(b)		
	Flower: height					
	short					3
	medium					5
	tall					7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
19. (*)	QN MG/MS/VG	(b)				
	Only varieties with Flower: type: semi- double and double: Flower: number of petals					
	very few				RAX PHYTALOS	1
	few					3
	medium					5
	many					7
	very many				YUZUTEMARI	9
20.	QL VG	(+)	(b)			
	Flower: presence of green color at center					
	absent					1
	present					9
21.	QN MG/MS/VG	(+)	(b), (c)			
	Petal: length					
	short					3
	medium				RAX LYCIA	5
	long					7
22.	QN MG/MS/VG	(+)	(b), (c)			
	Petal: width					
	narrow				RAX LYCIA	3
	medium				YUZUTEMARI	5
	broad					7
23. (*)	QN MG/MS/VG	(+)	(b), (c)			
	Petal: length/width ratio					
	low				RAX HADES	3
	medium					5
	high				RAX LYCIA	7
24. (*)	PQ VG	(a), (b), (c)				
	Petal: main color of inner side					
	RHS Colour Chart (indicate reference number)					

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25. (*)	PQ VG	(a), (b), (c)				
	Petal: secondary color of <u>inner</u> side					
	RHS Colour Chart (indicate reference number)					
26.	PQ VG	(+)	(a), (b), (c)			
	Petal: distribution of secondary color of <u>inner</u> side					
	none					1
	at apex					2
	on marginal zone					3
	at base					4
	in basal half					5
	throughout					6
27. (*)	PQ VG	(a), (b), (c)				
	Petal: main color of <u>outer</u> side					
	RHS Colour Chart (indicate reference number)					
28.	PQ VG	(a), (b), (c)				
	Petal: secondary color of <u>outer</u> side					
	RHS Colour Chart (indicate reference number)					
29.	PQ VG	(+)	(a), (b), (c)			
	Petal: distribution of secondary color of <u>outer</u> side					
	none					1
	at apex					2
	on marginal zone					3
	at base					4
	in basal half					5
	throughout					6

	English		français		deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
30.	QN	VG	(+)	(b), (c)				
	Petal: incision of margin							
	absent or very shallow						YUZUTEMARI	1
	shallow							2
	medium						SEIREN	3
	deep							4
	very deep							5
31. (*)	QN	VG	(+)	(b), (c)				
	Petal: undulation of margin							
	absent or weak							1
	medium							2
	strong						RAX ARTEMIS	3
32.	QN	VG		(b), (c)				
	Petal: glossiness							
	absent or weak							1
	medium						YUZUTEMARI	2
	strong						RAX ARTEMIS	3
33.	PQ	VG	(+)	(b)				
	Anther: color							
	RHS Colour Chart (indicate reference number)							
34.	PQ	VG	(+)	(b)				
	Stigma: color							
	RHS Colour Chart (indicate reference number)							

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

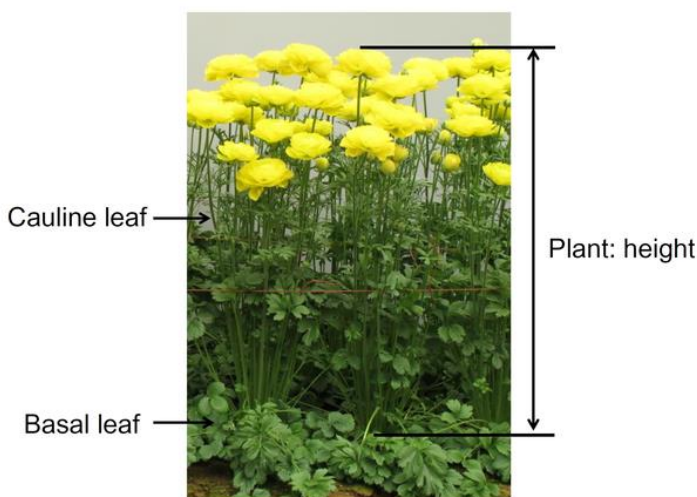
All observations should be made at the time of full flowering.

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

- (a) The main color is the color with the largest surface area. The color with the second largest area is the secondary color. In cases where the areas of the colors are too similar to reliably decide which color has the largest area, the darker color is considered to be the main color.
- (b) Observations should be made on the terminal flowers. Observations should be made on new fully open flowers.
- (c) Observations on varieties with double flowers should be made on a petal of the 1st outer whorl.

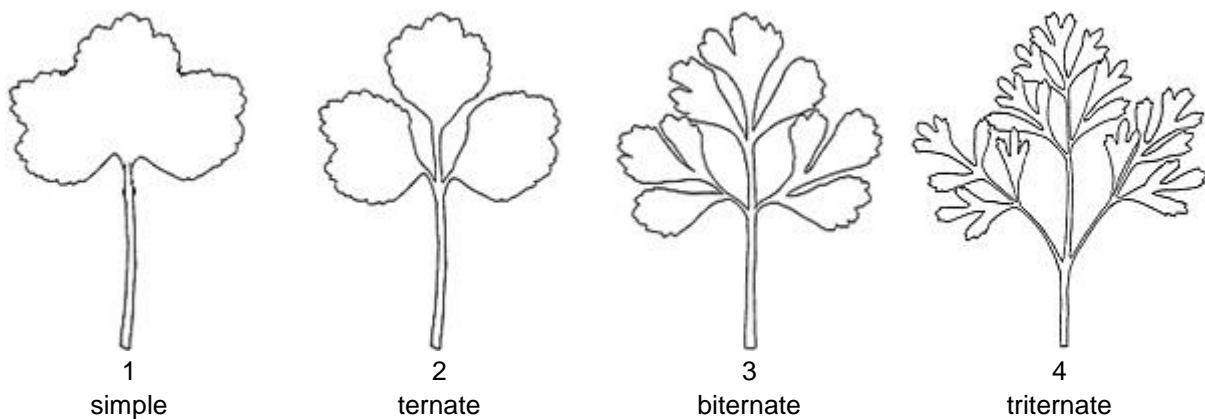
8.2 *Explanations for individual characteristics*

Ad. 1: Plant: height

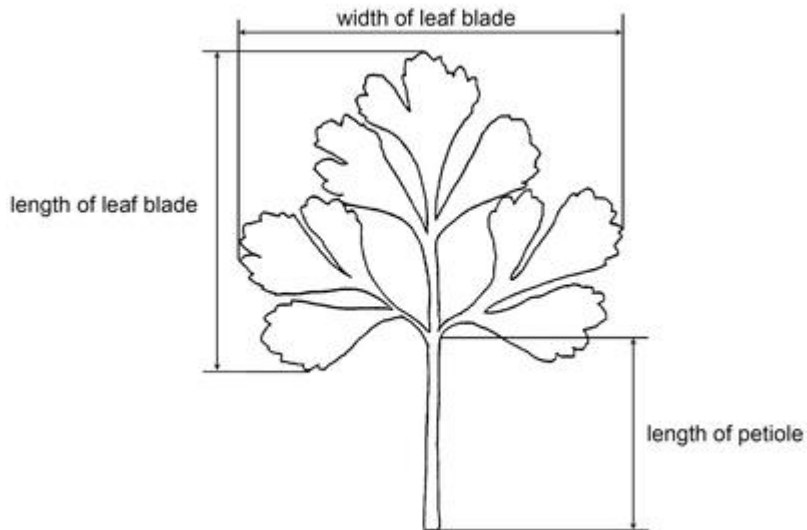


Plant height should be observed from the surface of the growing medium to the top of the tallest flower.

Ad. 3: Basal leaf: type



Ad. 4: Basal leaf: length of petiole



Ad. 5: Basal leaf: length of leaf blade

See Ad. 4

Ad. 6: Basal leaf: width of leaf blade

See Ad. 4

Ad. 7: Cauline leaf: type

See Ad. 3

Ad. 8: Cauline leaf: length of petiole

See Ad. 4

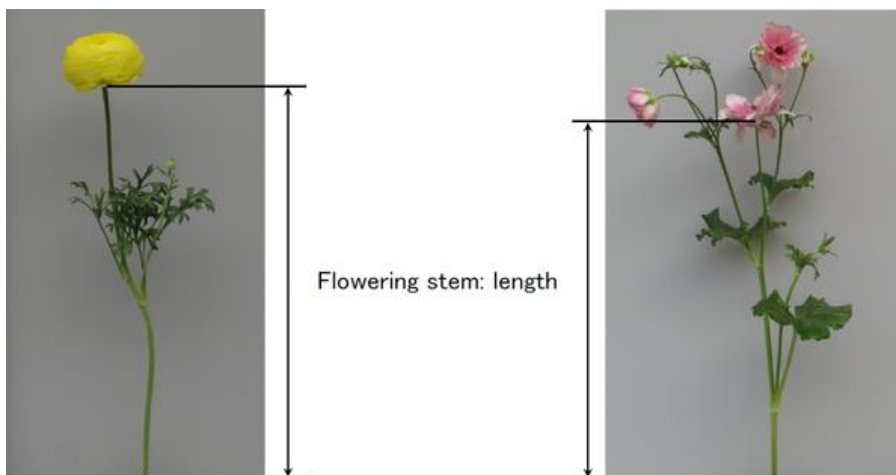
Ad. 9: Cauline leaf: length of leaf blade

See Ad.4

Ad. 10: Cauline leaf: width of leaf blade

See Ad.4

Ad. 14: Flowering stem: length



Ad. 15: Flowering stem: thickness

The thickness should be observed on the middle third of a flowering stem.

Ad. 16: Flower: type



1
single



2
semi-double



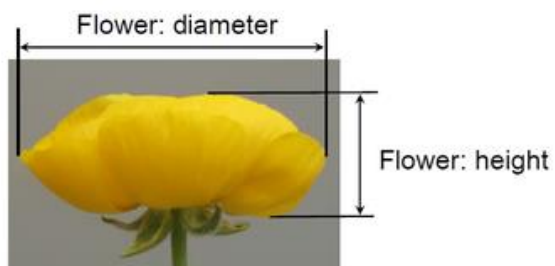
3
double

1. single: flowers with one row of petals.

2. semi-double: flowers with more than one row of petals, and a clearly defined pistil and stamen.

3. double: double flowers where a pistil and stamen are not visible.

Ad. 17: Flower: diameter



Ad. 18: Flower: height

See Ad. 17

Ad. 20: Flower: presence of green color at center

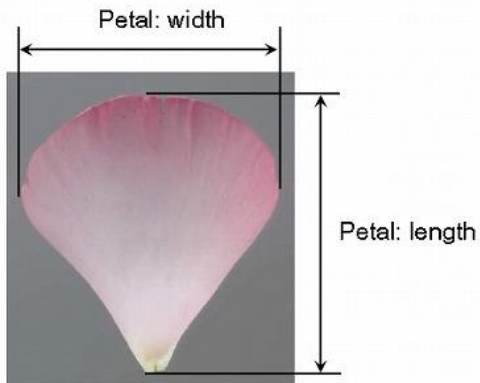


1
present



2
present

Ad. 21: Petal: length



Ad. 22: Petal: width

See Ad. 21

Ad. 23: Petal: length/width ratio



3
low

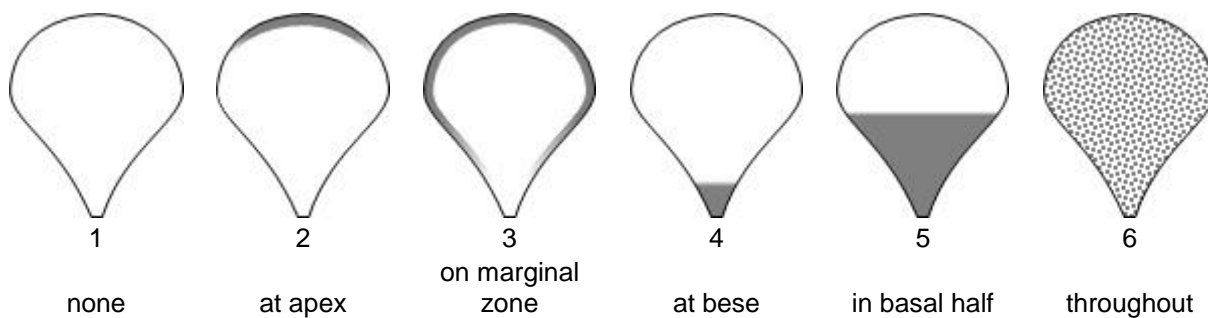


5
medium



7
high

Ad. 26: Petal: distribution of secondary color of inner side



Ad. 29: Petal: distribution of secondary color of outer side

See Ad. 26

Ad. 30: Petal: incision of margin



1
absent or very shallow



3
medium

Ad. 31: Petal: undulation of margin



1
absent or weak

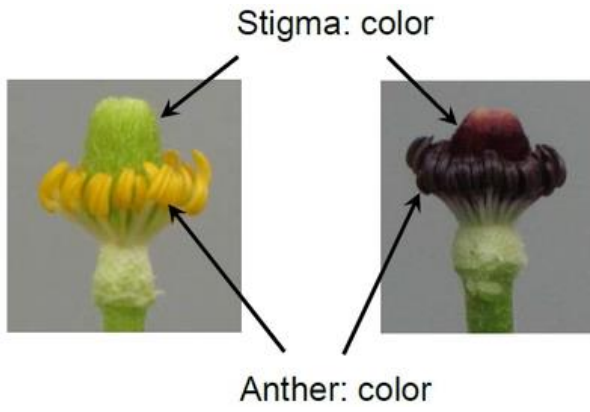


2
medium



3
strong

Ad. 33: Anther: color



Ad. 34: Stigma: color

See Ad. 33

9. Literature

Tsukamoto, Y., 1994: The Grand Dictionary of Horticulture, Compact version. Shogakukan. Tokyo, JP, pp.692-696

10. Technical Questionnaire

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

Ranunculus L.

1.2 Common name

Buttercup, Ranunculus

1.3 Species: (please complete)

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

4.1 Breeding scheme

Variety resulting from:

--

4.2	Method of propagating the variety	
4.2.1	Seed-propagated varieties	
(a)	Self-pollination	[]
(b)	Cross-pollination	[]
(c)	Other (please provide details)	[]
4.2.2	Vegetative propagation	
(a)	<i>In vitro</i> propagation	[]
(b)	corms	[]
(c)	Other (state method)	[]
4.2.3	Other (Please provide details)	[]
	<input type="text"/>	

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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 Plant: height (1)		
short		3 []
medium	SEIREN	5 []
tall	RAX ARTEMIS	7 []
5.2 Basal leaf: type (3)		
simple	SEIREN	1 []
ternate		2 []
biterminate		3 []
triterminate		4 []
5.3 Cauline leaf: type (7)		
simple	SEIREN	1 []
ternate		2 []
biterminate		3 []
triterminate		4 []
5.4 Inflorescence: number of flowers (13)		
very few		1 []
few		2 []
medium		3 []
many	RAX EUROPE	4 []
very many		5 []
5.5 Flower: type (16)		
single		1 []
semi-double		2 []
double		3 []
5.6 Flower: diameter (17)		
small	RAX HADES	3 []
medium	YUZUTEMARI	5 []
large		7 []

Characteristics	Example Varieties	Note
5.7 Petal: main color of <u>inner</u> side (24)		
green		1 []
yellow		2 []
orange		3 []
pink		4 []
red		5 []
purple		6 []
white		7 []
5.8 Petal: secondary color of <u>inner</u> side (25)		
green		1 []
yellow		2 []
orange		3 []
pink		4 []
red		5 []
purple		6 []
white		7 []
5.9 Petal: distribution of secondary color of <u>inner</u> side (26)		
none		1 []
at apex		2 []
on marginal zone		3 []
at base		4 []
in basal half		5 []
throughout		6 []

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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
<i>Example</i>	<i>Basal leaf: type</i>	<i>bitermate</i>	<i>tritermate</i>
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.]

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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".

.....

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]