

TG/CAMEL(proj.2) ORIGINAL: English DATE: 2009-08-17

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

# DRAFT

# CAMELLIA

UPOV Code: CMLIA

Camellia L.

### GUIDELINES

### FOR THE CONDUCT OF TESTS

### FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from China

to be considered by the Technical Working Party for Ornamental Plants and Forest Trees at its forty-second session, to be held in Angers, France, from September 14 to 18, 2009

Alternative Names:\*

Botanical name	English	French	German	Spanish
Camellia L.	Camellia	Camélia	Kamelie	Camelia

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.

### Other associated UPOV documents: TG/TEA (Camellia sinensis (L.) O. Kuntze)

<sup>&</sup>lt;sup>\*</sup> 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. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Camellia* L. excluding *Camellia sinensis* (L.) O. Kuntze.

### 2. <u>Material Required</u>

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 two-year-old plants, grafted or on their own roots.

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

### 10 plants or 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. <u>Method of Examination</u>

### 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 Observations should be made on plants which are at least one year after being planted. The growing media, fertilization and soil moisture for growing tested planted should be treated uniformly.

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3.3.3 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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

### 3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 10 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 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 plants. In the case of parts of plants, the number to be taken from each of the plants should be one.

### 3.6 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.

### 4.2 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 10 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 tested, either by growing a further generation, or by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

### 5. <u>Grouping of Varieties and Organization of the Growing Trial</u>

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: stem type (characteristic 1)
- (b) Leaf: size (characteristic 9)
- (c) Flower: type (characteristic 31)
- (d) Petal: color one: color (characteristic 45)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

### 6. <u>Introduction to the Table of Characteristics</u>

### 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

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.

6.3 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 3.3.3

- (a)-(e) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2

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# 7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (*) (+)	VG	Plant: stem type					
PQ		groundcover					1
		shrub				<i>C. japonica '</i> Xiao Mei Gui'	2
		semi-arbor				C. japonica 'Hong Lu Zhen'	3
		arbor				<i>C.reticulata</i> 'Da Li Cha'	4
2. (*) (+)	VG	Plant: growth habit	Plante: port	Pflanze: Wuchsform	Planta: porte		
PQ		upright	dressé	aufrecht	erecto	<i>C. japonica</i> 'Anticipation'	1
		semi-upright	demi-dressé	halbaufrecht	semierecto	<i>C. japonica</i> 'Mary Agnes Patin'	2
		spreading				<i>C. japonica</i> 'Masterpiece'	3
		drooping				<i>C.japonica</i> 'Hakuhan Kujaku'	4
		sprawling				<i>C.sasanqua</i> 'First Cover'	5
<b>3.</b> (*)	VG	Plant: foliage density					
QN		sparse				<i>C.reticulata</i> 'Da Tao Hong'	3
		medium				<i>C. japonica</i> 'Chang E Cai'	5
		dense				<i>C.japonica</i> 'Pu Tao Hong'	7

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
4.	VG	Vegetative bud: color					
PQ		yellowish green					1
		green				<i>C. japonica</i> 'Elegans Champagne'	2
		purple green				<i>C. japonica</i> 'Ren Mian Tao Hua'	3
		light pink				<i>C. japonica</i> 'Fen Fu Rong'	4
		purple red				<i>C.japonica</i> 'Nuccio's Bella Rossa'	5
		dark red				<i>C. japonica</i> 'Night Rider'	6
5. (+)	VG/ MS	Axillary vegetative bud: number					
QN		only one					1
		only two					2
		more than two					3
6.	VG	Shoot: color of young shoot					
PQ		yellowish green					1
		green					2
		pink					3
		yellowish brown					4
		reddish brown					5
7. (*) (+)	VG	Leaf: attitude					
QN		upwards				C. japonica 'Nuccio's Cameo'	1
		outwards				<i>C. japonica</i> 'Shi Zi Xiao'	2
		downwards				C.grijii	3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>8.</b> (*) (+)	VG	Leaf: arrangement					
PQ		penniform					1
		cross					2
		spiry					3
<b>9.</b> (*)	VG	Leaf: size					
QN	(c)	very small					1
		small					3
		medium					5
		large					7
		very large					9
10. (*) (+)	VG	Leaf: shape					
PQ		lanceolate					1
		medium ovate					2
		broad ovate					3
		elliptic					4
		narrow obovate					5
		medium obovate					6
11.	VG	Leaf blade: pubescence on upper side					
QL		absent					1
		present					9

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 10 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
12. (*)	VG	Leaf blade: thickness					
QN		thin				C.sasanqua 'Xiao Mei Gui'	1
		medium				<i>C. japonica</i> 'Hong Lu Zhen'	2
		thick				<i>C. reticulata</i> 'Hou Ye De Chi'	3
13. (*)	VG	Leaf blade: rigidity					
QN		weak					1
		medium					2
		strong					3
14.	VG	Leaf blade: venation on upper side	1				
QN		very weak or weak					1
		medium					2
		strong					3
15. (*)	VG	Leaf blade: glossiness of upper side					
QN		weak					1
		medium					2
		strong					3
<b>16.</b> (*)	VG	Leaf blade: main color of upper side					
PQ	(c)	yellowish green					1
		light green					2
		medium green					3
		dark green					4
		grey green					5

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
17.	VG	Leaf blade: variegation					
QL		absent					1
		present					9
18.	VG	Leaf blade: color of variegation					
PQ		white					1
		light yellow					2
		medium yellow					3
19.	VG	Leaf blade: distribution of variegation					
PQ		marginal only					1
		central zone only					2
		irregular					3
20.	VG	Leaf blade: cross					
(+)		section					
QN		concave					1
		flat					3
		convex					5
21. (*) (+)		Leaf blade: margin					
QL		entire					1
		serrulate					2
		serrate					3
		denticulate					4

# TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 12 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
22. (*) (+)	VG	Leaf blade: shape o base	f				
PQ		acute					1
		obtuse					2
		rounded					3
		auriculate					4
23. (*) (+)	VG	Leaf blade: shape o apex	f				
PQ		acute					1
		obcordate					2
		narrow short acuminate					3
		broad short acuminate					4
		long acuminate					5
		laciniate					6
24.	VG	Leaf blade: length of acuminate tip					
QN		short					1
		medium					2
		long					3
25.	VG/ MS	Petiole: length					
QN		absent or very short					1
		short					3
		medium					5
		long					7

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 13 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
26.	VG	Sepal: shape					
PQ		ovate					1
		elliptic					2
		obovate					3
27.	VG	Bract or sepal: color of outer side					
PQ		yellowish green to green					1
		yellow					2
		purple red					3
		brown					4
28.	VG	Bract or sepal: shape of apex					
(+)		shape of apex					
QN		obtuse					1
		rounded					2
		retuse					3
29.	VG	Flower bud: arrangement					
PQ		terminal only					1
		terminal and axillary					2
		axillary only					3
<b>30.</b> (*)	VG/ MS	Flower: diameter					
QN		very small					1
		small					3
		medium					5
		large					7
		very large					9

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 14 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
31 (*) (+)	VG	Flower: type					
PQ		single					1
		semi-double					2
		anemone form					3
		peony form					4
		rose form double					5
		formal double					6
32.	VG	Flower: petaloids					
QL		absent					1
		present					9
33.	VG	Flower: type of petaloids					
QN		partly					1
		anther					2
		entire					3
34.	VG	Flower: number of split styles					
QN		one					1
		two					2
		three					3
		four					4
		five					5
35. (+)	VG/ MS	Flower: position of stigma relative to stamens					
QN		below					1
		same level					2
		above					3

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		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
36.		Flower: number of petaloids					
QN		very few to few					1
		medium					2
		many to very many					3
37.	VG/ MS	Petal: thickness					
QN		thin					3
		medium					5
		thick					7
38.	VG	Petal: shape of apex					
PQ		obtuse					1
		rounded					2
		retuse					3
39.	VG	Petal: incisions of margin					
QL		absent					1
		present					9
40.	VG	Petal: curvature of longitudinal axis					
QN		incurved					1
		straight					2
		reflexed					3

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 16 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>41.</b> (*) (+)	VG	Flower: shape of petals of first outside row					
PQ		ovate					1
		oblate					2
		cirular					3
		oblong					4
		obovate					5
		obcordate					<mark>6</mark>
42.	VG	Petal: undulation					
(+)							
QN		absent or weak					1
		medium					2
		strong					3
43.	VG	Petal: venation					
QN		very weak to weak					1
		medium					2
		strong					3
<b>44.</b> (*)	VG	Petal: color one: pattern					
PQ		entire					1
		darker in the central zone					2
		lighter from tip toward base					3
		lighter from margin toward central zone					4
<b>45.</b> (*)	VG	Petal: color one: color					
PQ		RHS Colour Chart (indicate reference number)					

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 17 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
46.	VG	Petal: color one: distribution					
PQ		entire					1
		upper third					2
		central third					3
		basal third					4
47. (*) (+)	VG	Petal: pattern of color two					
		spots only					1
		radiated striping only					2
		spots and striping only					3
		marginal					4
<b>48.</b> (*) (+)	VG	Petal: distribution of color two					
PQ		entire					1
		marginal					2
		central zone					3
		basal zone					4
<b>49.</b> (*)		Petal: color two: color					
PQ		RHS Colour Chart (indicate reference number)					

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 18 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>50.</b> (*) (+)	VG	Stamens: arrangement					
PQ		sasanqua					1
		circular					2
		apricot					3
		tea whisk					4
		pinched					5
		tubular					6
		split					7
		dispersed					8
<b>51.</b> (+)	VG	Style: position of splitting					
QN		low					1
		medium					2
		high					3
52.	VG	Ovary: hairs					
QL		absent					1
		present					9
53. (*)	VG	Time of flowering					
QN		very early					1
		early					3
		medium					5
		late					7

### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 19 -

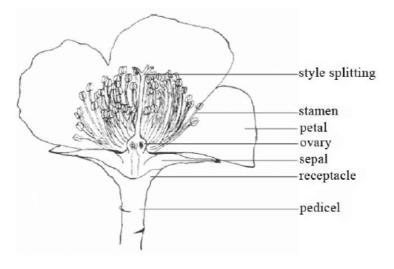
		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
54.	VG	Length of flowering period					
QN		short					3
		medium					5
		long					7

### 8. Explanations on the Table of Characteristics

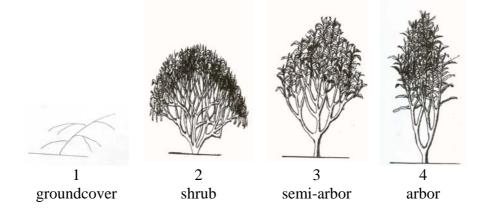
## 8.1 Explanations covering several characteristics

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

- (a) Observations should be made on buds in the spring.
- (b) Observations should be made on the first round developed young shoots.
- (c) Observations should be made on the matured leaves in the middle shoots in the summer or autumn season.
- (d) Observations should be made on the fully blossoming season.
- (e) Flower: diagram

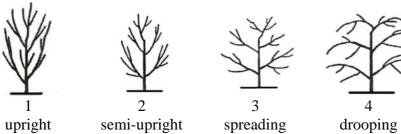


- 8.2 *Explanations for individual characteristics*
- Ad. 1: Plant: stem type



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### Ad. 2: Plant: growth habit





semi-upright

spreading

sprawling

### Ad. 5: Axillary vegetative bud: number



only one

2

only two



more than two

Ad. 7: Leaf: attitude







1 upwards

2 outwards

3 downwards

Ad. 8: Leaf: arrangement

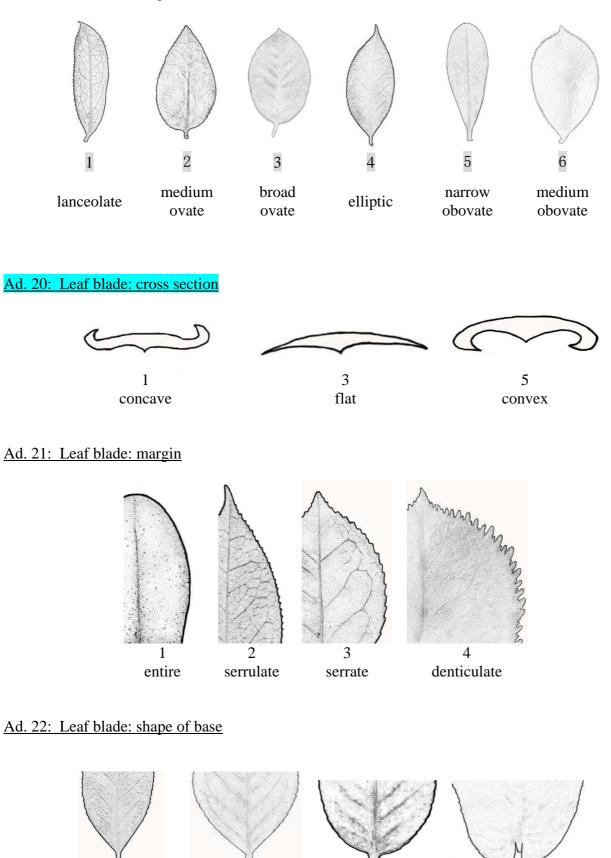


2 cross



### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 22 -

### Ad. 10: Leaf blade: shape



2

obtuse

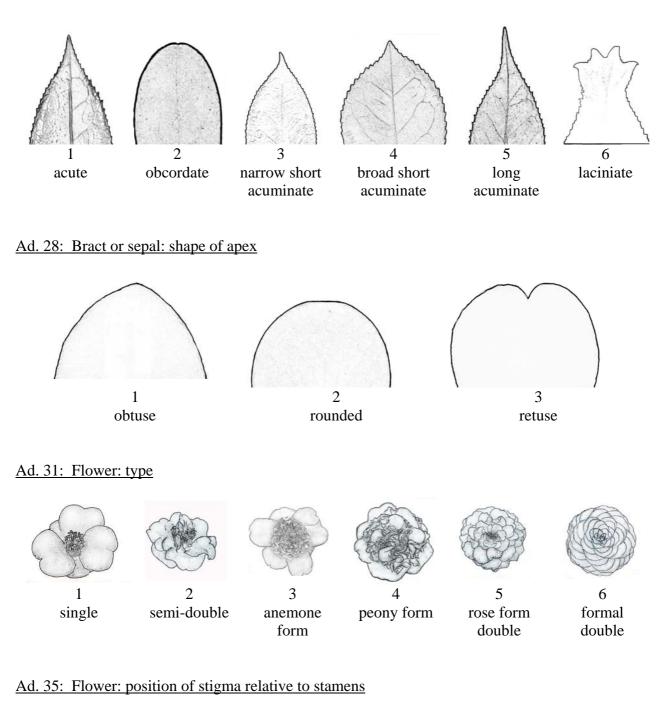
1 acute 3

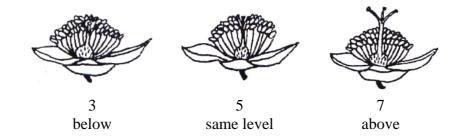
rounded

4 auriculate

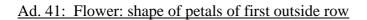
### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 23 -

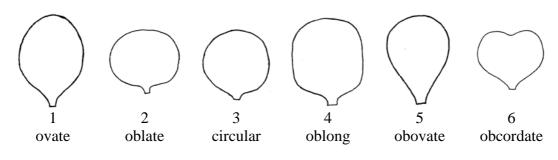
### Ad. 23: Leaf blade: shape of apex



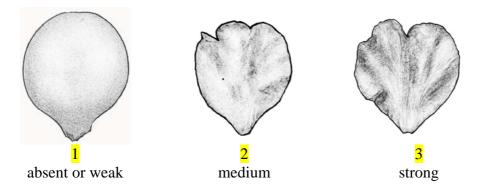


### TG/CAMEL(proj.2) Ornamental Camellia, 2009-08-17 - 24 -

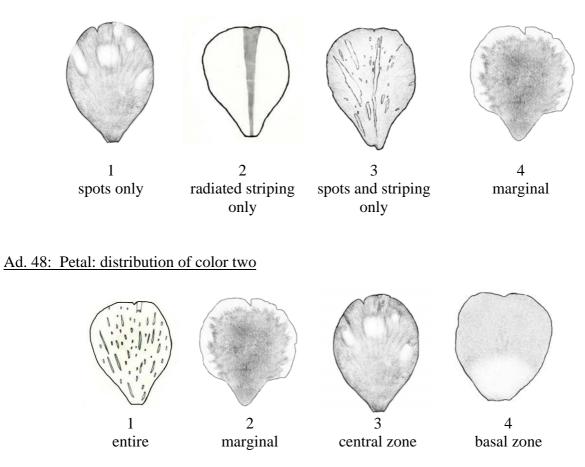




Ad. 42: Petal: undulation



### Ad. 47: Petal: pattern of color two



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# Ad. 50: Stamens: arrangements







4









1 sasanqua

2 circular

apricot tea whisk

3

5 pinched

6 tubular

7 split

8 dispersed

Ad. 51: Style: position of splitting





3 high

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### 9. <u>Literature</u>

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# 10. Technical Questionnaire

TEC	HNICAL QUESTIONNAIRI	E 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.	1. Subject of the Technical Questionnaire								
	1.1 Botanical name	Camellia L.							
	1.2 Common name	Camellia							
2.	Applicant								
	Г								
	Name								
	Address								
	Telephone No.								
	Fax No.								
	E-mail address								
	Breeder (if different from ap	plicant)							
	[								
3.	Proposed denomination and	breeder's reference							
	Proposed denomination (if available)								
	Breeder's reference								

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TECHNICAL Q	DUESTIONNAIRE Page {x} of {y} Reference Number:						
<sup>#</sup> 4. Information on the breeding scheme and propagation of the variety							
4.1 Breedi	ling scheme						
4.1.1	Crossing						
	(a) controlled cross [ ] (please state parent varieties)						
	(b) partially known cross [ ] (please state known parent variety(ies))						
	(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)						
4.2 Method of p	4.2 Method of propagating the variety						
(	(a) cuttings [ ]						
(	(b) <i>in vitro</i> propagation [ ]						
	(c) other (state method) [ ]						

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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TECI	HNICAL QUESTIONNAIRE	age {x} of {y} Reference Number:	
5. corre		b be indicated (the number in brackets re- idelines; please mark the note which best corr	
	Characteristics	Example Varieties	Note
5.1 (1)	Plant: stem type		
	groundcover	C. japonica 'Xiao Mei Gui'	1[]
	shrub	C. japonica 'Hong Lu Zhen'	2[]
	semi-arbor	C.reticulata 'Da Li Cha'	3[]
	arbor	C. japonica 'Xiao Mei Gui'	4[]
5.2 (9)	Leaf : size		
	very small		1[]
	small		3[]
	medium		5[]
	large		7[]
	very large		9[]
5.3 (31)	Flower: type		
	single		1[]
	semi-double		2[]
	anemone form		3[]
	peony form		4[]
	rose form double		5[]
	formal double		6[]
5.5 (45)	Petal: color one: color		
	RHS Colour Chart (indicate reference)	umber)	

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

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	Characteristic(s) in	Describe the expression	Describe the
variety(ies) similar to	which your candidate	of the characteristic(s)	expression of the
your candidate variety	variety differs from the	for the similar	characteristic(s) for
	similar variety(ies)	variety(ies)	your candidate variety
Example	[e.g. Flower color]	[e.g. orange]	[e.g. orange red]

Comments:

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TECHNICAL QUESTIONNAIRE			Page {	x} o	f {y}		Reference Number:	
<sup>#</sup> 7.	Addi	itional in	formation which 1	may hel	p in	the exai	mir	nation 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 ye	es, please	e provide details)					
7.2	Are	there any	special condition	s for gr	owir	ig the va	arie	ety or conducting the examination?
	Yes	[]		No	[ ]			
	(If ye	es, please	e provide details)					
7.3	Othe	r inform	ation					
8.	Auth	orization	n 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 suc	ch authorization be	een obta	ained	!?		
		Yes	[]	No		[]		
	If the	e answer	to (b) is yes, plea	se attac	h a c	opy of t	the	authorization.

<sup>&</sup>lt;sup>#</sup> Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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

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 [ ]				
	Pleas	e provide details for where you have indicated "yes".						
9.3 patho	Has ogens?	s the plant material to be examined been tested for the pre-	sence of vir	us or other				
	Yes	[]						
	(	please provide details as specified by the Authority)						
	No	[ ]						
10. form	10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:							
	Appli	icant's name						
	Signa	ture Date						

[End of document]