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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

BUDDLEJA

UPOV Code: BUDDL

Buddleja L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from France

*to be considered by the
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: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Buddleja L.</i>	Buddleja, Butterfly-bush	Buddleia, Arbre aux papillons	Buddleie, Schmetterlingsstrauch	Budleya, Mariposa

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 *Buddleja* 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 plants capable of flowering and expressing all relevant characteristics of the variety during the first growing cycle.

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

8 plants.

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 one year.

3.2 *Testing Place*

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

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 8 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 8 plants or parts taken from each of 8 plants and any other observations on all plants in the test.

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*

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:

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 8 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 plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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) Leaf blade: variegation (characteristic 10)
- (b) Leaf blade: main color of upper side (excluding variegation) (characteristic 11)
- (c) Inflorescence: shape (characteristic 20)
- ~~(d) Corolla lobe: RHS color chart (indicate reference number) (characteristic 31)~~
- (e) Corolla lobe: color of inner side (characteristic 31) with the following groups:
 - Gr. 1: white
 - Gr. 2: yellow
 - Gr. 3: pink
 - Gr. 4: purple
 - Gr. 5: blue

NZ/DE/UK proposal: to delete (d) and to keep (e) only

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

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*

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

(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/ Variedades ejemplo	Note/ Nota
1. (* (+)	Plant: growth habit	Plante: port	Pflanze: Wuchsform	Planta: porte		
PQ	upright	dressé			Summer Beauty	1
	rounded	rond			Nanho Purple	2
	spreading	étalé			Pink Spreader	3
2. (*	Plant: height	Plante : hauteur				
QN	very short	très courte			White Ball	1
	short	courte			Huimoon	3
	medium	moyenne			Nanho Purple	5
	tall	haute			Pink Delight	7
	very tall	très haute			Purple Prince, White Profusion	9
3.	Plant: height in relation to width	Plante : hauteur par rapport à la largeur				
QN	taller than broad	plus haute que large			Empire Blue	1
	as tall as broad	aussi haute que large			White Ball	2
	broader than tall	plus large que haute			Huimoon	3
4. (*	Shoot: color (pubescence excluded)	Rameau: couleur (pubescence exclue)		FR comments for UK question: shoot mean Lateral shoot		
PQ	(a) green	verte			White Profusion	1
	brownish	brune				2
	reddish	rougeâtre			African Queen	3
5.	Stem: shape in cross section	Tige : forme en section transversale		FR comments for UK question:Stem mean Principal stem		
QL	circular	circulaire			Spring Promise	1
	angular	angulaire			Empire Blue	2

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
6. (*)	Stem: pubescence	Tige : pubescence		AU: to delete Nahoensis because it is a specie		
QN	absent or very sparse	absente ou très peu dense				1
	sparse	peu dense			Nanho Blue	3
	medium	moyenne			White Ball	5
	dense	dense				7
	very dense	très dense			Huimoon	9
7. (*) (+)	Leaf blade: shape	Feuille : forme	NZ proposes to reorder the states : done	AU: to delete Nivea because it is a specie		
PQ	(b) lanceolate	lancéolée				1
	narrow ovate	ovale étroit			Purple Prince, Summer Beauty	2
	medium ovate	ovale moyen			Sungold	3
	cordate	cordiforme			Huimoon	4
8.	Leaf blade: length	Feuille : longueur				
QN	very short	très courte				1
	short	courte				3
	medium	moyenne				5
	long	longue				7
	very long	très longue				9
9.	Leaf blade: width	Feuille : largeur				
QN	very narrow	très étroite				1
	narrow	étroite				3
	medium	moyenne				5
	broad	large				7
	very broad	très large				9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. (*)	Leaf blade: variegation	Limbe foliaire : panachure				
QL	absent	absente			Summer Beauty	1
	present	présente			Notbud, Santana	9
11. (*)	Leaf blade: main color of upper side (excluding variegation)	Feuille : couleur principale de la face supérieure (panachure exclue)		UK/FR : to correct " Les Kneale" not yellow but very light green		
PQ	white	blanc				1
	whitish yellow	jaune blanchâtre				2
	yellow	jaune			Les Kneale	3
	green	vert			Lochin ^h , Silver Anniversary, Silver frost	4
	grey green	vert gris				5
12.	<u>Only green colored varieties: leaf : intensity of green color on upper side</u>	<u>Variété de couleur verte uniquement Feuille : intensité de la couleur verte de la face supérieure</u>		UK question : does this include Grey green? FR: yes		
QN	very light	très claire				1
	light	light				3
	medium	moyenne				5
	dark	foncée				7
13. (+)	Leaf: color of variegation	Feuille : couleur de la panachure		Uk comment : not QL To add yellowish green and there are can be more than one colour of variegation		
QL	yellowish white	blanc jaunâtre			Notbud	1
	yellowish green	vert jaunâtre				2
	yellow	jaune			Santana	3

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
14.	Leaf: margin	Feuille : bord				
(+)						
QL	entire	entier				1
	dentate	denté			Summer Beauty	2
	sinuate	sinué			Huimoon	3
15.	Leaf blade: pubescence on upper side	Limbe foliaire : pubescence de la face supérieure	DE proposes to combine 15+16			
QL	absent	absente			Summer Beauty	1
	present	présente			Huimoon	9
16.	Leaf blade: intensity of pubescence on upper side	Limbe foliaire: intensité de la pubescence sur la face supérieure				
QN	absent or very weak	très faible				1
	weak	faible				3
	medium	moyenne			White Ball	5
	strong	forte				7
	very strong	très forte			Huimoon	9
17.	Leaf blade: pubescence on lower side	Limbe : pubescence face inférieure				
QL	absent	absente				1
	present	présente			Huimoon	9
18. (* (+)	Leaf blade: bulging between veins	Feuille : cloquête entre les nervures				
QL	absent	absente			Royal Red	1
	present	présente				9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
19.	Leaf blade: bulging	Feuille : cloquée	NZ proposes to combine 18+19 and to add between veins			
QN	absent or weak	absente ou faible			African Queen	1
	medium	moyenne			Golden Glow	3
	strong	forte				5
20. (* (+)	Inflorescence: shape	Inflorescence : forme	UK remark: are Sungold and Sun Gold the same variety FR: yes			
PQ	(c) conical	conique			African Queen, Pink Beauty	1
	cylindrical	cylindrique			Sungold	2
	globular	globulaire			Huimoon, Moonlight	3
21.	Inflorescence: number of branches					
QN	few				Pink Pearl	1
	medium					2
	many				Dartmoor	3
22. (*	Inflorescence: length (excluding peduncle)	Inflorescence: longueur (excluant le pédoncule)				
QN	very short	très courte			White Ball	1
	short	courte			African Queen	3
	medium	moyenne			Summer Beauty	5
	long	longue			White Profusion	7
	very long	très longue			Ile de France	9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
23. (* (+)	Inflorescence: width	Inflorescence : largeur				
QN	very narrow	très étroite				1
	narrow	étroite			Empire Blue	3
	medium	moyenne			Dar's Ornamental	5
	broad	large			Orchid Beauty	7
	very broad	très large			Peakeep	9
24. (*	Inflorescence: density	Inflorescence : densité				
QN	very sparse	très peu dense				1
	sparse	peu dense			Huimoon	3
	medium	moyenne			Summer Beauty	5
	dense	dense			Nanho Blue	7
	very dense	très dense			Orchid Beauty	9
25.	Calyx: length	Calice : longueur				
QN	short	court			Huimoon, Morning Mist	1
	medium	moyen			Masquerade	2
	long	long			White Ball	3
26.	Sepal: pubescence	Sépales : pubescence		NZ/FR: to replace sepal by calyx or sepal (upper part)		
QN	absent or very weak	absent ou très faible				1
	weak	faible			Empire Blue	3
	medium	moyenne			Santana	5
	strong	forte			Spring Promise	7
	very strong	très forte			Huimoon	9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
27.	Corolla lobe: attitude at full flowering	Lobe corollaire : port				
(+)						
QN	erect	dressé				1
	semi erect	demi dressé			Sungold	2
	horizontal	horizontal			Notbud (=Masquerade)	3
28.	Corolla lobe: arrangement	Lobe corollaire : arrangement				
(+)						
QN	free	disjoint			Notbud (=Masquerade)	1
	free to touching	disjoint à tangent				2
	NZ: intermediate					
	touching	tangent			Sungold	3
29.	Corolla lobe: incisions of margin	Lobe corollaire : incisions du bord				
QL	absent	absente				1
	present	présente			Orchid Beauty	9
30.	Corolla lobe: depth of incisions of margin	Lobe corollaire : profondeur des incisions du bord				
QN	shallow	peu profonde				1
	medium	moyenne			Empire Blue	2
	deep	profonde			Orchid Beauty	3
31.	Corolla lobe: color of inner side	Lobe de la corolle : couleur de la face supérieure				
(*)						
PQ	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)				
32.	Corolla throat: presence of eye	Gorge de la corolle : présence d'un œil				
(+)						
QL	absent	absent				1
	present	présent			Moonlight	9

	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
33.	Corolla throat: color of eye		Gorge de la corolle : couleur de l'œil			
PQ	yellow	jaune			White Ball	1
	orange	orange			Moonlight, GoldenGlow	2
	reddish	rougeâtre				3
	brown	brun				4
34. (*)	Time of beginning of flowering		Époque de début de floraison		AU: to delete Stoenostachya because it is a specie	
QN	very early	très précoce				1
	early	précoce				3
	medium	moyenne			Sungold	5
	late	tardive				7
	very late	très tardive				9

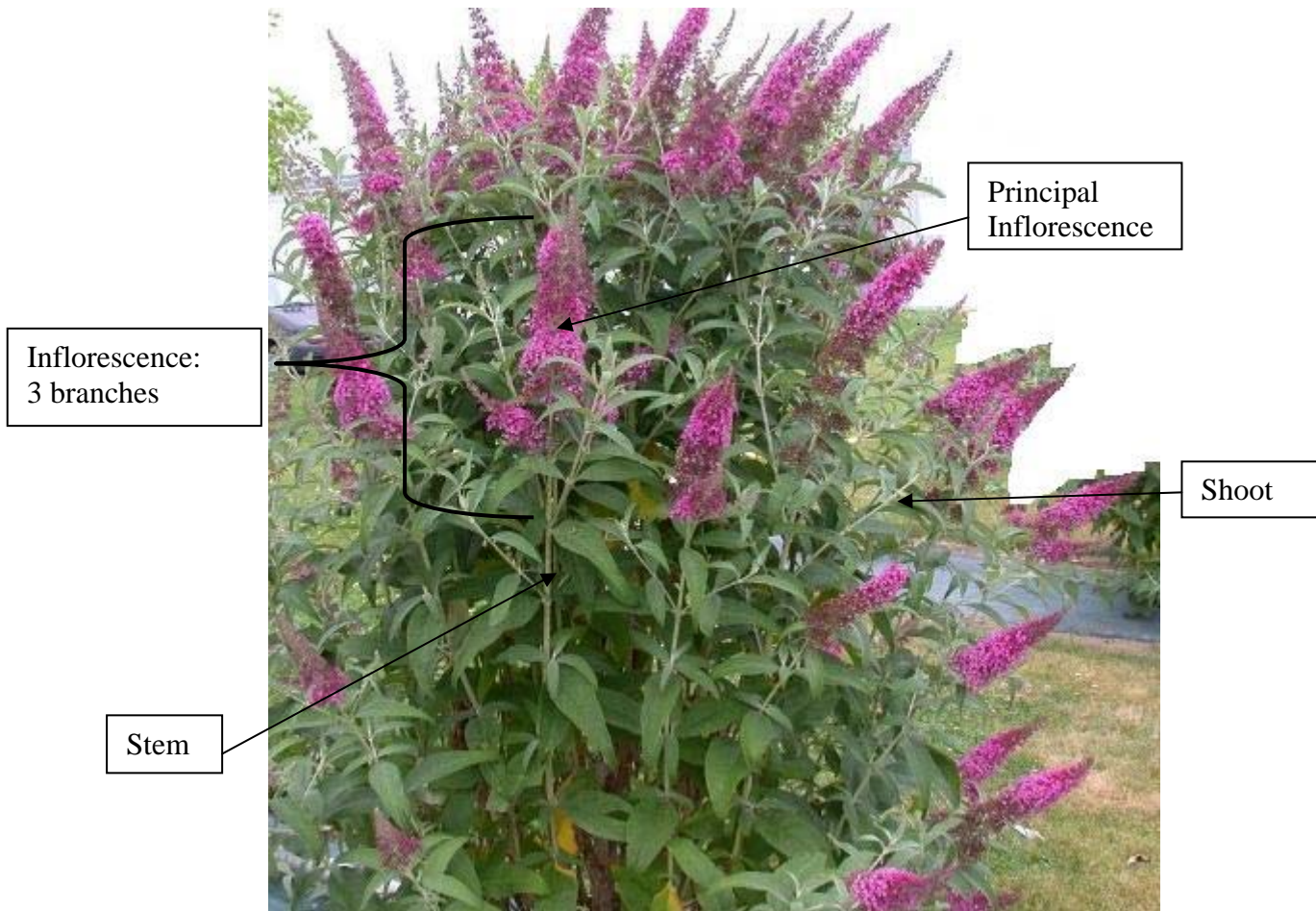
8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

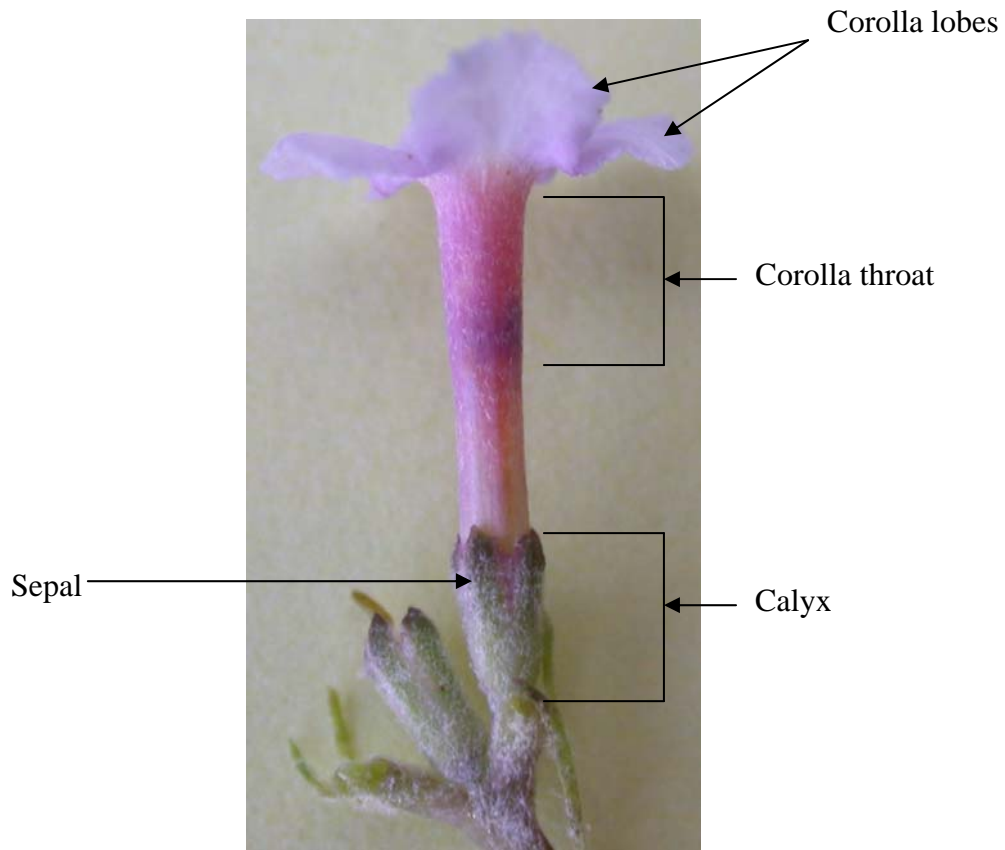
Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) All characteristics on shoots and leaves are to be observed on current year's shoots, at the base, just before flowering.
- (b) All characteristics on leaves are to be observed on current year shoot base, on the central third part of the shoot.
- (c) All characteristics on inflorescences are to be observed on the principal inflorescence.

General illustration of plant



General illustration of flower



8.2 *Explanations for individual characteristics*

Ad. 1: Plant: growth habit



1
upright



2
rounded



3
spreading

Ad. 7: Leaf blade: shape



1
lanceolate



2
narrow ovate



3
medium ovate



4
cordate

Ad. 13: Leaf: color of variegation

Well defined areas of different colors, with less or no chlorophyll, especially as irregular patches or stripes on one organ.

Ad. 14: Leaf: margin



1
entire



2
dentate



3
sinuate

Ad. 18: Leaf blade: bulging between veins



9
present

Ad. 20: Inflorescence: shape



1
conical



2
cylindrical



3
globular

Ad. 23: Inflorescence: width

to observe at broadest part

Ad. 27: Corolla lobe: attitude at full flowering



1
erect

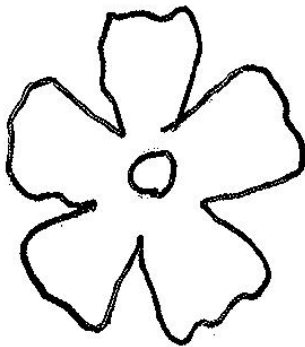


2
semi erect

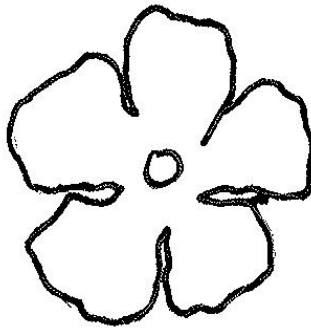


3
horizontal

Ad. 28: Corolla lobe: arrangement

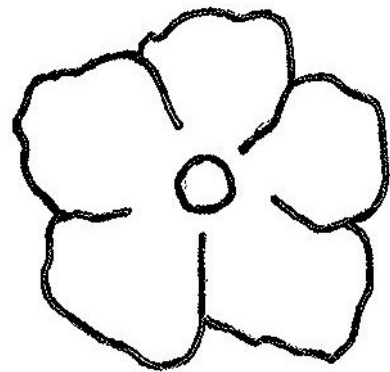


1
free



2
free to touching

NZ proposal: intermediate



3
touching

Ad. 32: Corolla throat: presence of eye



Eye

9. Literature

Stuart, D., 2006: Buddlejas – The Royal Horticultural Society. Timber Press, 192 pp.

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		
1.1.1 Botanical name	<input type="text" value="Buddleja L."/>	
1.1.2 Common name	<input type="text" value="Buddleja"/>	
1.2 Species	<input type="text"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

- (a) controlled cross []
(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 propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings []
- (b) *in vitro* propagation []
- (c) other (state method) []

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:
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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 (2)		
very short	White Ball	1[]
short	Huimoon	3[]
medium	Nanho Purple	5[]
tall	Pink Delight	7[]
very tall	Purple Prince, White Profusion	9[]
5.2 Leaf blade: variegation (10)		
absent	Summer Beauty	1[]
present	Notbud, Santana	9[]
5.3 Leaf blade: main color of upper side (excluding variegation) (11)		
white		1[]
whitish yellow		2[]
yellow	Les Kneale	3[]
green	Lochingh, Silver Anniversary, Silver frost	4[]
grey green		5[]
5.4 Inflorescence: shape (20)		
conical	African Queen, Pink Beauty	1[]
cylindrical	Sungold	2[]
globular	Huimoon, Moonlight	3[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
5.5(i) Corolla lobe: color of inner side (31) RHS Colour Chart (indicate reference number)		
5.5(ii) Corolla lobe: color of inner side (31) white yellow pink purple blue	White Ball Sungold Huimoon Nanho Purple Nanho Blue	1[] 2[] 3[] 4[] 5[]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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>Corolla lobe</i>	<i>white</i>	<i>yellow</i>

Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [] No []

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [] No []

(If yes, please provide details)

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire.

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.

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

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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

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]