

Technical Working Party for Ornamental Plants and Forest Trees TWO/52/7 Add.

Fifty-Second Session
Roelofarendsveen, Netherlands, June 8 to 12, 2020

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ADDENDUM TO



MINIMUM DISTANCES BETWEEN VEGETATIVELY PROPAGATED ORNAMENTAL VARIETIES

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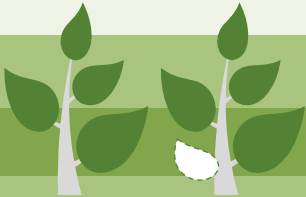
The annex to this document contains a copy of a presentation on “Minimum distances between vegetatively propagated ornamental varieties - The Pelargonium Case Study”, prepared by an expert from the International Community of Breeders of Asexually Reproduced Ornamental and Fruit-Tree Varieties (CIOPORA), to be considered by the fifty-second session of the Technical Working Party for Ornamental Plants and Forest Trees (TWO).

[Annex follows]

	<h2>Minimum distances between vegetatively propagated ornamental varieties</h2> <h3>The Pelargonium Case Study</h3>
	<p>Dr Edgar Krieger CIOPORA Secretary General</p>

Questions:





- Is a (uniform and stable) variety, different from another existing variety, automatically eligible for PBR protection?
- Or does it require more than a difference?
- Does a variety, which is different from a protected variety, fall out of the scope of said protected variety?
- Does “different” equal “distinct”?

UPOV 1991 Act



Article 1

Definitions

- (vi) “**variety**” means a plant grouping within a single botanical taxon of the lowest known rank, which grouping, irrespective of whether the conditions for the grant of a breeder’s right are fully met, can be
- defined by the expression of the characteristics resulting from a given genotype or combination of genotypes,
 - **distinguished from any other plant grouping by the expression of at least one of the said characteristics** and
 - considered as a unit with regard to its suitability for being propagated unchanged;

UPOV 1991 Act



Article 5

Conditions of Protection

- (1) [*Criteria to be satisfied*] The breeder’s right shall be granted where the variety is
- (i) new,
 - (ii) **distinct**,
 - (iii) uniform and
 - (iv) stable.

Article 7

Distinctness

The variety shall be deemed to be distinct if it is **clearly distinguishable** from any other variety whose existence is a matter of common knowledge at the time of the filing of the application. ...

Relevant Articles in 2100/94



Article 5

Variety

distinguished ... by the expression of at least one ... characteristic,

In our view these two Articles show

that in UPOV 1991 Act two different degrees of "Difference" exist:

Article 7

Protectable variety

Clearly distinguishable
(Distinctness)

- the (smaller) botanical degree which declares a variety just different from an existing variety
- the (broader) legal degree ("Distinctness"), which qualifies a variety for getting PBR Protection.

UPOV 1991 Act



Article 14

Scope of the Breeder's Right

(1) [Acts in respect of the propagating material] (a) Subject to Articles 15 and 16, the following acts in respect of the propagating material of the protected variety shall require the authorization of the breeder:

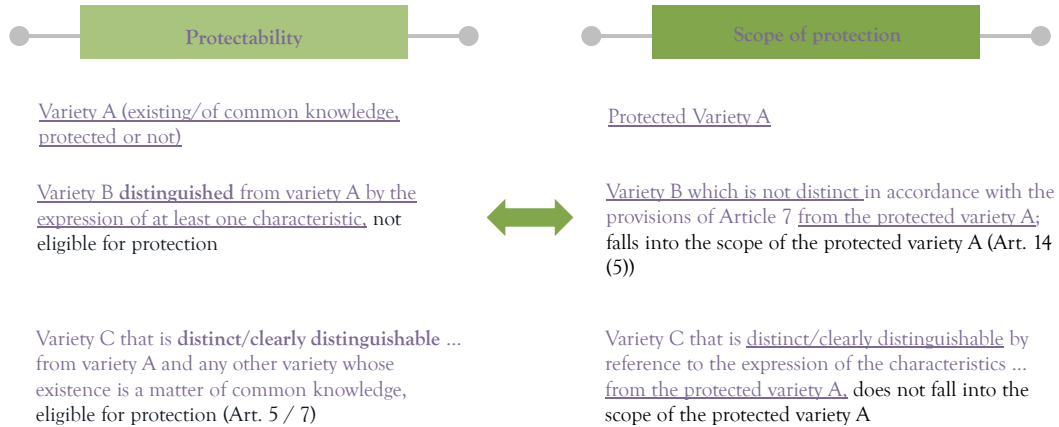
(i) production or reproduction (multiplication), (ii) conditioning for the purpose of propagation, (iii) offering for sale, (iv) selling or other marketing, (v) exporting, (vi) importing, (vii) stocking for any of the purposes mentioned in (i) to (vi), above.5.

(5) [Essentially derived and certain other varieties] (a) The provisions of paragraphs (1) to (4) shall also apply in relation to

...

(ii) varieties which are not clearly distinguishable in accordance with Article 7 from the protected variety and

Three „different“ varieties

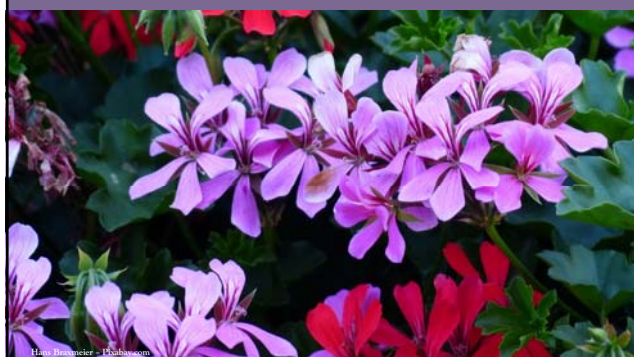


Variety vs Protectable Variety





Practical Case Study on Minimum Distance between selected Pelargonium Varieties



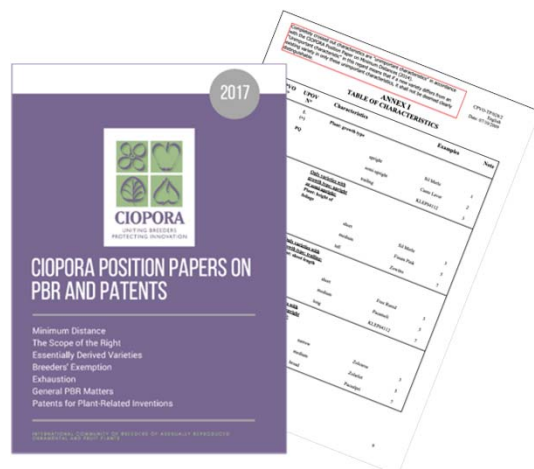
A Joint Study by CIOPORA and the
CPVO, with the collaboration of the
Bundessortenamt (Germany)

Background



The CIOPORA Position Paper on Minimum Distance

- Unanimously approved by CIOPORA Members during AGM 2014;
- It demands a sufficient minimum distance between varieties for an effective PVR;
- “Clearly Distinguishable” should be assessed on important characteristics. Differences in unimportant characteristics only should not lead to a distinct variety.
- A difference of only one note in general should not be considered as a sufficiently broad distance.
- **Mock Test Protocol:** Based on CIOPORA’s position, drafted by experts.



Background

- The study was based on the concern about shrinking distances between varieties to the point that in trade some varieties can be no longer distinguished from each other.
- It aimed at defining and harmonizing the legal concept of “clearly distinguishable” by addressing only Important Characteristics.
- CIOPORA's members identified the 7-pairs of pelargonium used in the trials.
- The results had no effect on any rights granted.
- The study was completely funded by the CPVO.



Background

“Mock protocol” on Pelargonium, based on the CPVO-TP/28/2

Out of 60 characteristics 16 characteristics (= 26%) have been classified as “unimportant”, i.e. irrelevant for the determination of distinctness.

3 *** asterisked characteristics have been classified as irrelevant for the determination of distinctness

Within the remaining 44 important characteristics the notes have been broadened in 2 characteristics.

Completely crossed out characteristics are "unimportant characteristics" in accordance with the CIPORA Position Paper on Minimum Distances (2014).
"Unimportant characteristic" in this regard means that if a new variety differs from an existing variety in only these unimportant characteristics, it shall not be deemed clearly distinguishable.

CPVO-TP028/2
English
Date: 07/10/2009

ANNEX I TABLE OF CHARACTERISTICS

CPVO N°	UPOV N°	Characteristics	Examples	Note
1.	1. (*)	Plant: growth type		
	PQ	upright	Sil Merle	1
		semi-upright	Cante Laver	2
		trailing	KLEP04112	3
2.	2.	<u>Only varieties with growth type: upright or semi-upright.</u> Plant: height of foliage		
	QN	short	Sil Merle	3
		medium	Fium Pink	5
		tall	Zowite	7
3.	3.	<u>Only varieties with growth type: trailing.</u> Plant: shoot length		
	QN	short	Free Rare	3
		medium	Pacamel	5
		long	KLEP04112	7
4.	4.	<u>Only varieties with growth type: partial or semi-upright.</u> Plant: width		
	QN	narrow	Zolcaros	3
		medium	Zolafet	5
		broad	Pacalpei	7

9

CPVO-TP028/2
English
Date: 07/10/2009

CIPORA

CPVO N°	UPOV N°	Characteristics	Examples	Note
5.	5.	Stem: colour (excluding anthocyanin)		
	QL (a)	whitish		1
		green		2
6.	6.	Stem: anthocyanin coloration		
	QN (a)	absent or very weak	KLEP03612	1
		medium	Furscky Dark Red	3
		strong	Bulgadepra	5
7.	7. (*)	Leaf blade: length		
	QN (a)	short	KLEP03612	3
		medium	Zolirca	5
		long	Pavica	7
8.	8. (*)	Leaf blade: width		
	QN (a)	narrow	KLEP03612	3
		medium	Zolirca	5
		broad	Pavica	7
9.	9. (*)	Leaf blade: depth of sinus		
	QN (a)	absent or very shallow		1
		shallow	Zolcaros	3
		medium	KLEP01652	5
		deep	Cante Laver	7

10

CPVO-TP/628/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
18.	18. (+)	Leaf blade: relative size of rose		
	QN (a)	small		4
		medium		5
		large		6
19.	19.	Peduncle: length		
	QN (b)	short	Darfurto	3
		medium	Sil Merle	5
		long	Finewein	7
20.	20. (+)	Peduncle: anthocyanin coloration of middle third		
	QN (b)	absent or very weak	Zowit	1
		weak	Realcolor	3
		medium	Gentoo	5
		strong	Clips Scarl	7
21.	21. (+)	Inflorescence: height		
	QN (b)	short	Pachla	3
		medium	Finowi	5
		tall	Finowsky Dark Red	7
22.	22. (+)	Inflorescence: width		
	QN (b)	narrow	KLEP01052	3
		medium	KLEP03106	5
		broad	Zolirca	7

13

CPVO-TP/628/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
23.	23. (+)	Inflorescence: number of open flowers		
	QN (b)	few	Tälvris	3
		medium	KLEP01052	5
		many	KLEP03106	7
24.	24. (+)	Inflorescence: length of largest flower		
	QN (b)	short	Gentoo	3
		medium	Gentoo	5
		long	Finanova	7
25.	25. (+)	Inflorescence: width of largest flower		
	QN (b)	narrow		3
		medium	Finom Pink	5
		broad	Finewein	7
26.	26.	Inflorescence: length of longest pedicel		
	QN (b)	short	Cette Derold	3
		medium	Finom Pink	5
		long	Zoldarob	7

14



CPVO-TP/628/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
25.	25.	Pedice: anthocyanin coloration of upper third		
	QN (b)	absent or very weak		4
		weak	Pachla	5
		medium	Finowsky Dark Red	5
		strong	Zonabrisol	5
		very strong	Clips-Velvet	9
26.	26. (+)	Pedice: swelling		
	QL (b)	absent		4
		present		9
29.	29. (+)	Flower: type		
	QL	single		1
		double		2
30.	30. (+)	Only varieties with flower type: single; Flower: arrangement of upper petals in relation to lower petals		
	QN (b)	free		1
		touching		3
		moderately overlapping		5

15

CPVO-TP/628/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
31.	31.	Only varieties with flower type: double; Flower: number of petals		
	QN (b)	few 1 - 3	KLEP01052	3
		medium 4 - 7	Finom Pink	5
		many 8 and more	Pavalkon	7
32.	32. (+)	Flower: cross section in lateral view		
	QN (b)	concave		1
		flat		2
		convex		3
33.	33. (+)	Flower: presence of irregularly distributed stripes or blotches		
	QL (b)	absent	Sil Merle	4
		present	Gradoni	9
34.	34. (+)	Only varieties with flowers with irregularly distributed stripes or blotches; Flower: main colour		
	PQ (b)	white	Gradoni	1
		pink		2
		red		3

16



CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
35.	35.	Only varieties with flowers with irregularly distributed stripes or blotches. Flowers: colour of stripes or blotches		
	PQ (b)	white and red		1
		only red	Grado1	2
		purple		3
36.	36. (+)	Sepal: reflexing		
	QN (b)	absent or weak		1
		moderate		2
		strong		3
37.	37.	Sepal: anthocyanin coloration in middle of broadest sepal		
	QN (b)	absent or very weak	Fireweiss	1
		weak	Fireweck-Dark Red	2
		medium	Gentelica	3
		strong	Sil-Todo	4
		very strong		5
38.	38.	Upper petal: width		
	QN (b)	narrow	KL-EP04113	1
		medium	Zoltenes	2
		broad	KL-EP04106	3

17

CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
39.	39. (+)	Upper petal: shape		
	PQ (b)	rhombic		1
		round		2
		obtriangular		3
		spatulate		4
40.	40. (+)	Upper petal: margin at apex		
	PQ (b)	entire		1
		emarginate		2
		lacinate		3
41.	41. (+)	Upper petal: colour of margin of upper side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	
42.	42. (+)	Upper petal: colour of middle of upper side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	
43.	43.	Upper petal: colour of lower side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	

18



CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
44.	44. (+)	Upper petal: conspicuousness of marking		
	QN (b) (c)	absent or very weak	Four Pink	1
		weak	Zoldanbo	2
		medium	Zoldanbo	3
		strong	Genda	4
45.	45. (+)	Upper petal: type of marking		
	PQ (b) (c)	stripes only		1
		stripes and dots		2
		stripes and spots		3
		single spot only		4
46.	46. (+)	Upper petal: size of largest spot		
	QN (b) (c)	small		1
		medium		2
		large		3
47.	47. (+)	Upper petal: colour of spot		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	
48.	48. (+)	Upper petal: zone at base		
	QN (b) (c)	absent	KL-EP04106	1
		present	Sil Merle	2

19

CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
49.	49.	Upper petal: size of zone at base		
	QN (b) (c)	none		1
		small	Svero	2
		medium	Sil Merle	3
		large		4
50.	50.	Upper petal: colour of zone at base		
	PQ (b) (c)	white	Sil Merle	1
		red pink	Pascalpi	2
		orange red	Ballarvio	3
		light violet	Clip Velud	4
51.	51. (+)	Lower petal: colour of margin of upper side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	
52.	52. (+)	Lower petal: colour of middle of upper side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	
53.	53.	Lower petal: colour of lower side		
	PQ (b) (c)		RHS Colour Chart (indicate reference number)	

20




CPVO-TP/628/2
English
Date: 07/10/2009

CPVO N°	UPOV N°	Characteristics	Examples	Note
54.	54. (+)	<u>Lower petal: conspicuousness of marking</u>		
	QN (b)	absent or very weak	Sil-Merie	1
	(c)	weak	Zomelo	3
		medium	Zonadavolo	5
		strong	Swaro	2
55.	55. (+)	<u>Lower petal: type of marking</u>		
	PQ (b)	no marking		1
	(c)	stripes only		2
		stripes and dots		3
		stripes and spots/spots		4
		single spot only		5
56.	56. (+)	<u>Lower petal: size of largest spot</u>		
	QN (b)	small		3
	(c)	medium		5
		large		2
57.	57. (+)	<u>Lower petal: zone at base</u>		
	QN (b)	absent	Frem-Pink	1
	(c)	present	Sil-Limo	9
58.	58. (+)	<u>Lower petal: size of zone at base</u>		
	QN (b)	none		1
	(c)	small	Duovijlze	3
		medium	Sil-Limo	5
		large		7

21

CPVO-TP/628/2
English
Date: 07/10/2009



CIOPORA

CPVO N°	UPOV N°	Characteristics	Examples	Note
59.	59.	<u>Lower petal: colour of zone at base</u>		
	PQ (b)	white		1
	(c)	orange red		2
		blue pink		3
		violet		4
60.	60.	<u>Only varieties with flower type: double</u> <u>Lower petal: colour of middle of upper side</u>		
	PQ (b)		RHS Colour Chart (indicate reference number)	
	(c)			

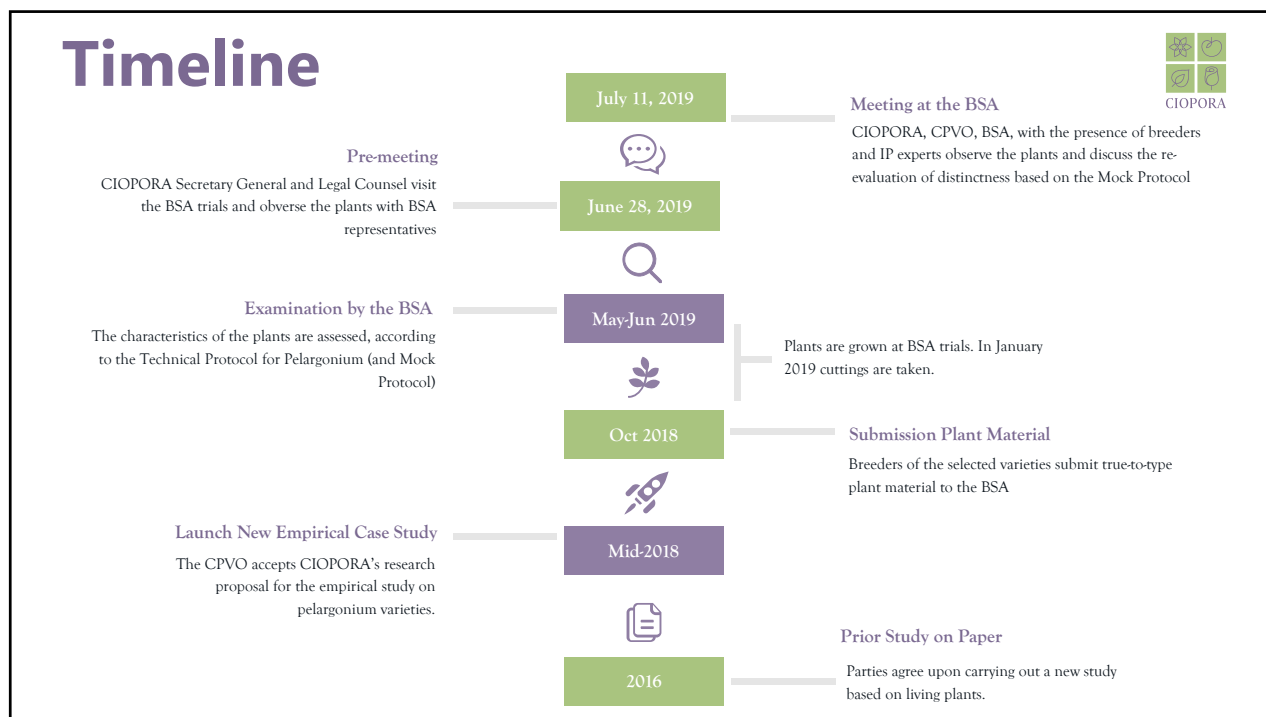
22

Background

Prior study (on paper) on Minimum Distance

- In 2016, CIOPORA in cooperation with several EOs (Naktuinbouw, NIAB, UKZUZ, GEVES, BSA) carried out a case study on distances between pelargonium, apple and rose varieties. Funded by CPVO.
- The last 50 varieties, which were granted with a right at CPVO were re-examined by the EOs, using the CIOPORA Mock Protocols.
- **Results on Pelargonium:** Two varieties would not be considered distinct. “If the comparison would not have been limited to the varieties in trial, more distinctness problems could have been found.”





Results

The results are based on the descriptions by the BSA, as well as on observations made by the breeders and the IP experts during the meeting on July 11, 2019.

The flower colors were assessed in a room with natural daylight facing north.

The color chart used is the Royal Horticultural Society Color Chart, 2015.

CIOPORA

Pair 1: Clearly distinguishable



Pair 2: Clearly distinguishable



Pair 3: No consensus



Pair 4: Clearly distinguishable



Pair 5: Clearly distinguishable



Pair 6: Clearly distinguishable

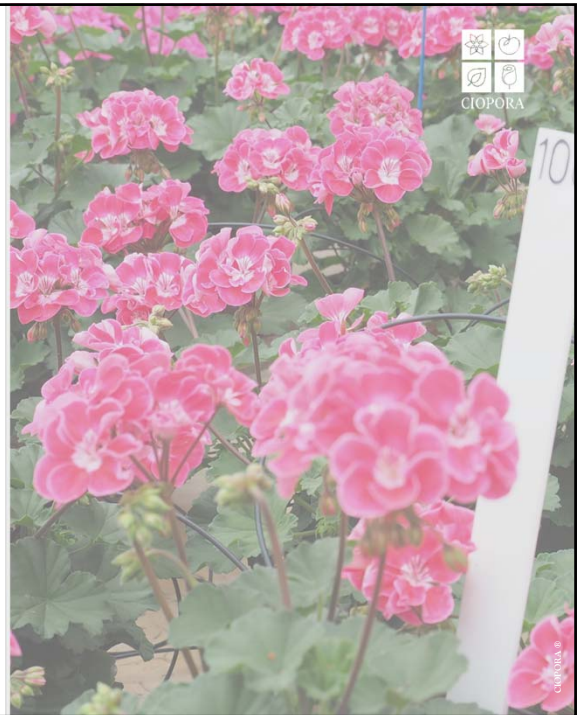


Pair 7: Clearly distinguishable



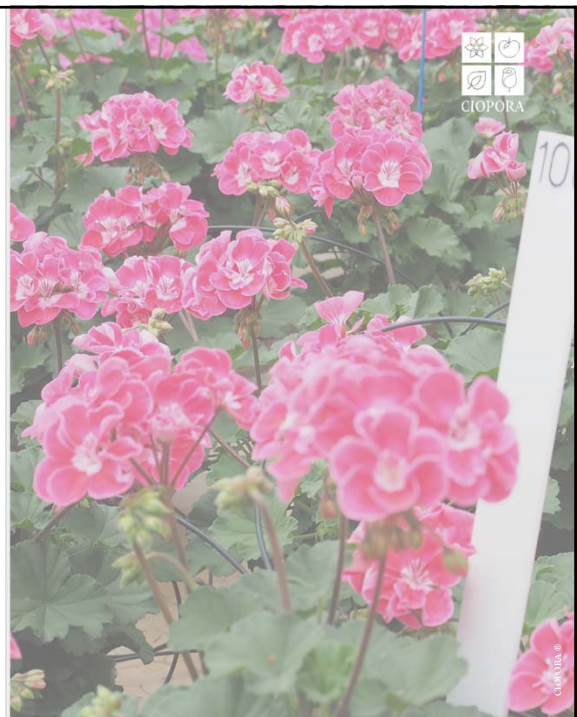
Conclusions

- Phenotypic differences could be observed in all pairs. The evaluation of all varieties was mainly based on a botanical approach;
- The examiners of the BSA re-confirmed that on the basis of the current rules and their observations all 7 pairs are clearly distinguishable;
- Except for Pairs 6 and 7, Secretary General and Legal Counsel of CIOPORA had doubts whether the other pairs should be declared distinct.
- Pelargonium breeders are satisfied to a large extent with the actual system. However, there was a dispute in Pair 3, whether this should have been declared distinct.



Conclusions

- The decision on which characteristics are relevant for the determination of “clearly distinguishable”, on how many of such characteristics must differ from each other and on the distance between such characteristics should be made on a crop-by-crop basis by a panel of experts, including representatives of the breeders of the crop concerned.
- The topic of Minimum Distance remains important for breeders, as it is a key element for the level of protection.



[End of Annex and of document]