

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

Document prepared by the Office of the Union

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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 (CIOFORA), to be considered by the fifty-second session of the Technical Working Party for Ornamental Plants and Forest Trees (TWO).

[Annex follows]

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

<h2>Questions:</h2> 	 <p>Is a (uniform and stable) variety, different from another existing variety, automatically eligible for PBR protection?</p> <p>Or does it require more than a difference?</p> <p>Does a variety, which is different from a protected variety, fall out of the scope of said protected variety?</p> <p>Does “different” equal “distinct”?</p>
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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:

- 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.

Article 7

Protectable variety

Clearly distinguishable
(Distinctness)

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:

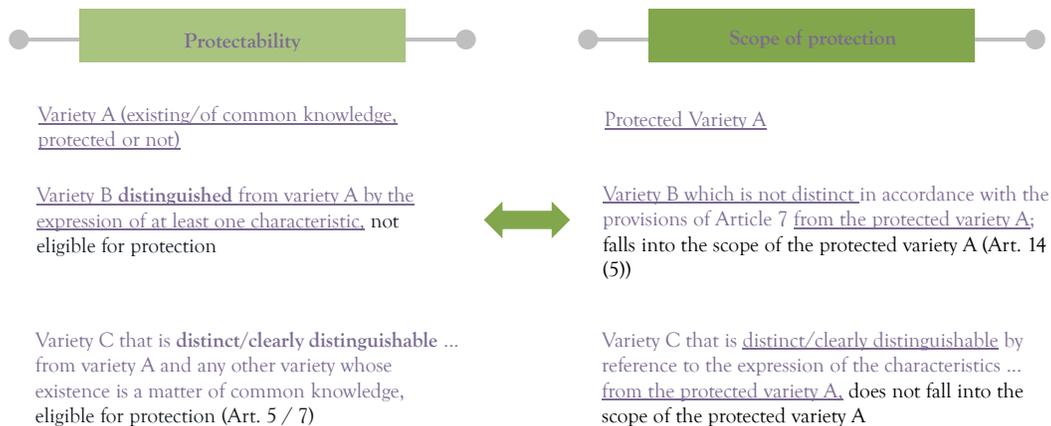
(i) production or reproduction (multiplication), (ii) conditioning for the purpose of propagation, (iii) offering for sale, (iv) selling or other marketing, (v) exporting, (vi) importing, (vii) stocking for any of the purposes mentioned in (i) to (vi), above.5.

(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



PROTECTED VARIETY

NOT CLEARLY DISTINGUISHABLE
Variety

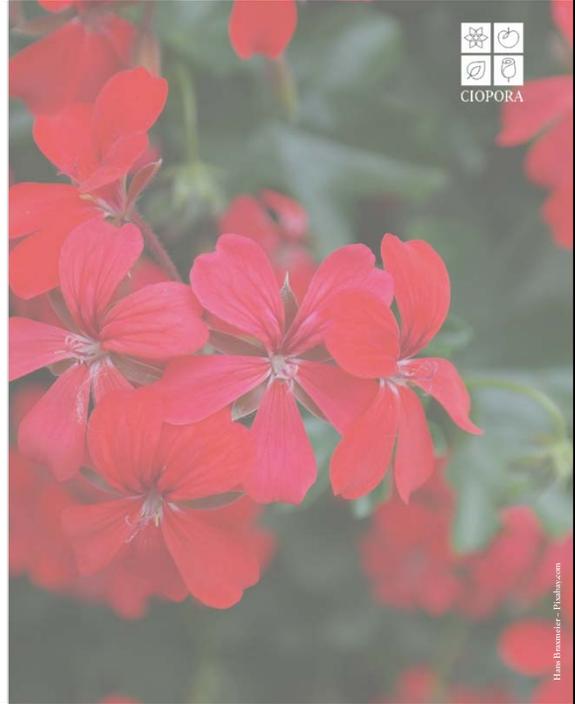
CLEARLY DISTINGUISHABLE
Variety

- It is a VARIETY per se, because it is different from "Leafy"
- "Leafier" is not clearly distinguishable from "Leafy"
- As to Plant Variety Protection "Leafier" falls into scope of protection of "Leafy".

- Clearly distinguishable compared to "Leafy"
- Eligible for separate PVR Protection
- Falls out of the scope of protection of "Leafy".

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-TP/028/2
English
Date: 07/10/2009

CPVO-TP/028/2
English
Date: 07/10/2009

ANNEX I
TABLE OF CHARACTERISTICS

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

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CIPORA

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ANNEX I
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CPVO N°	UPOV N°	Characteristics	Examples	Note	
10.	10. QN (a)	Leaf blade: undulation of margin	weak	Zolirca	3
			medium	Zolarlet	5
			strong	Wevelnu	3
11.	11. (*) QN (a)	Leaf blade: base	wide open		1
			slightly open		3
			closed		5 2
			partly overlapping		3
			strongly overlapping		9 3
12.	12. QL (a)	Leaf blade: variegation	absent	Sil Merle	1
			present	Pencero	9
13.	13. (*) PQ (a)	Leaf blade: main colour (zone excluded)	yellow		1
			light green		2
			light green to medium green	Zowitz	3
			medium green	Sil Merle	4
			medium green to dark green	KLEP03106	5 4
			dark green	Zolirca	6
			dark red / purple	Vancouver Centennial	7 5
			brown purple	Black Magic	8

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ANNEX I
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CIPORA

CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
18.	18. (+)	Leaf blade: relative size of <i>ovate</i>	small	1
			medium	3
			large	5
19.	19. (+)	Peduncle: length	short	Darfurto 3
			medium	Sil Merle 5
			long	Finweiss 7
20.	20. (+)	Peduncle: anthocyanin coloration of middle third	absent or very weak	Zowitz 1
			weak	Realcator 3
			medium	Genree 5
			strong	Clips Scarl 7
21.	21. (+)	Inflorescence: height	short	Pachla 3
			medium	Finweiss 5
			tall	Finweiss Dark Red 7
22.	22. (+)	Inflorescence: width	narrow	KLEP01052 3
			medium	KLEP03106 5
			broad	Zolirca 7

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CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
23.	23. (+)	Inflorescence: number of open flowers	few	Tävis 3
			medium	KLEP01052 5
			many	KLEP03106 7
24.	24. (+)	Inflorescence: length of largest flower	short	Getvird 3
			medium	Genam 5
			long	Fishnova 7
25.	25. (+)	Inflorescence: width of largest flower	narrow	3
			medium	Finam Pink 5
			broad	Finweiss 7
26.	26. (+)	Inflorescence: length of longest pedicel	short	Cette Derold 3
			medium	Finam Pink 5
			long	Zoldarob 7

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CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
27.	27. (+)	Pedicel: anthocyanin coloration of upper third	absent or very weak	1
			weak	Pachla 3
			medium	Finweiss Dark Red 5
			strong	Zonabiscial 7
			very strong	Clips-Vedred 9
28.	28. (+)	Pedicel: swelling	absent	1
			present	9
29.	29. (+)	Flower: type	single	1
			double	2
30.	30. (+)	Only varieties with flower type: single Flower: arrangement of upper petals in relation to lower petals	free	1
			touching	3
			moderately overlapping	5

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CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
31.	31. (+)	Only varieties with flower type: double Flower: number of petals	few 1 - 3	KLEP01052 3
			medium 4 - 7	Finam Pink 5
			many 8 and more	Pacalkom 7
32.	32. (+)	Flower: cross section in lateral view	concave	1
			flat	2
			convex	3
33.	33. (+)	Flower: presence of irregularly distributed stripes or blotches	absent	Sil Merle 1
			present	Gradewi 9
34.	34. (+)	Only varieties with flowers with irregularly distributed stripes or blotches: Flower: main colour	white	Gradewi 1
			pink	2
			red	3

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CPVO-TP/0282 English Date: 07/10/2009					
CPVO N°	UPOV N°	Characteristics	Examples	Note	
35.	35.	Only varieties with flowers with irregularly distributed stripes or blotches. Flower: colour of stripes or blotches			
			PQ (b)	white and red only red purple	1 2 3
				Gradovi	
36.	36. (+)	Sepal: reflexing			
			QN (b)	absent or weak moderate strong	1 2 3
37.	37.	Sepal: anthocyanin coloration in middle of broadest sepal			
			QN (b)	absent or very weak weak medium strong very strong	1 3 5 7 9
				Fireweiss Firestock-Dark Red Gontheica Sil-Todo	
38.	38.	Upper petal: width			
			QN (b)	narrow medium broad	3 5 7
				KLEP04113 Zelreen KLEP04106	

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CPVO-TP/0282 English Date: 07/10/2009					
CPVO N°	UPOV N°	Characteristics	Examples	Note	
39.	39. (+)	Upper petal: shape			
			PQ (b)	rhombic round obtriangular spatulate	1 2 3 4
40.	40. (+)	Upper petal: margin at apex			
			PQ (b)	entire emarginate lacinate	1 2 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)	

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CPVO-TP/0282 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 weak medium strong	1 3 5 7
				Fioun-Pink Zoldarob Zoldarob Genda	
45.	45. (+)	Upper petal: type of marking			
			PQ (b) (c)	stripes only stripes and dots stripes and spot/spots single spot only	1 2 3 4
46.	46. (+)	Upper petal: size of largest spot			
			QN (b) (c)	small medium large	3 5 7
47.	47. (+)	Upper petal: colour of spot			
			PQ (b) (c)	RHS Colour Chart (indicate reference number)	
48.	48. (+)	Upper petal: zone at base			
			QL (b) (c)	absent present	1 9

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CPVO-TP/0282 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 small medium large	1 3 5 7
				Swero Sil Merle	
50.	50.	Upper petal: colour of zone at base			
			PQ (b) (c)	white red pink orange red light violet	1 2 3 4
				Sil Merle Pascalpri Ballarvio Clip Velud	
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)	

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CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
54.	54. (+)	Lower petal: conspicuousness of marking		
	QN	(b) absent or very weak	Sil Merle	1
		(c) weak	Zonardo	3
		medium	Zonadardo	5
		strong	Svaro	2
55.	55. (+)	Lower petal: type of marking	no marking	1
	PQ	(b) stripes only		2
		(c) stripes and dots		3
		stripes and spots		4
		single spot only		5
56.	56. (+)	Lower petal: size of largest spot		
	QN	(b) small		3
		(c) medium		5
		large		2
57.	57. (+)	Lower petal: zone at base		
	QN	(b) absent	Fiume Pink	1
		(c) present	Sil Lima	9
58.	58.	Lower petal: size of zone at base		
	QN	(b) none	Duoipfliz	1
		(c) small	Sil Lima	5
		medium		7
		large		2

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CPVO-TP/028/2 English Date: 07/10/2009				
CPVO N°	UPOV N°	Characteristics	Examples	Note
59.	59.	Lower petal: colour of zone at base		
	PQ	(b) white		1
		(c) orange red		2
		blue pink		3
		violet		4
60.	60.	Only varieties with flower type double: Inner petal: colour of middle of upper side		
	PQ	(b)	RHS Colour Chart (indicate reference number)	
		(c)		

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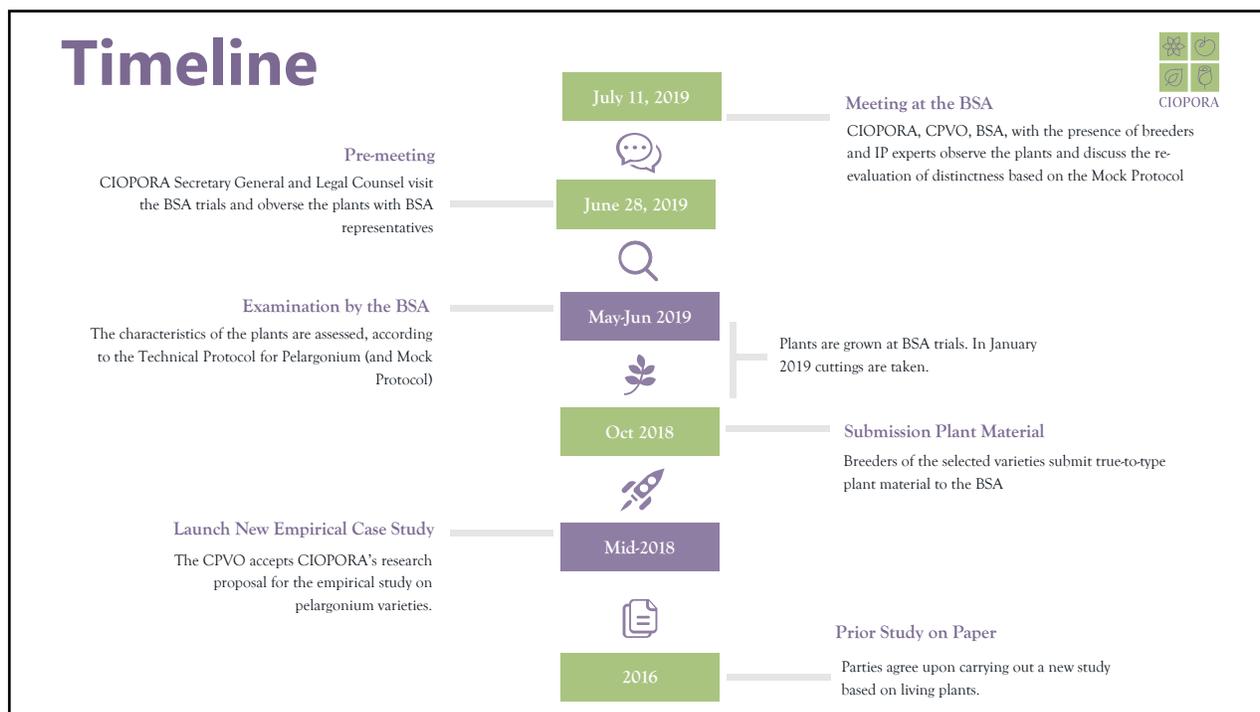


Background

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



Clearly distinguishable or just (slightly) different?



Clearly distinguishable

or just (slightly) different?



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]