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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for Ornamental Plants and Forest Trees  Fifty-Seventh Session Roelofarendsveen, Kingdom of the Netherlands,  March 31 to April 3, 2025 | TWO/57/3  Original: English  Date: February 27, 2025 |

Partial revision of the Test Guidelines for Dianthus

Document prepared by an expert from the Kingdom of the Netherlands

Disclaimer: this document does not represent UPOV policies or guidance

The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Dianthus (*Dianthus L.*) (document TG/25/9).

The Technical Working Party for Ornamental Plants and Forest Trees (TWO), at its fifty-sixth session, held by electronic means, from April 29 to May 2, 2024, agreed that the Test Guidelines for Dianthus (document TG/25/9) should be partially revised (see document TWO/56/6 “Report”, Annex II).

The following changes are proposed:

1. Addition of the characteristic **Leaf: undulation of margin** (*after* characteristic 19) with states absent or weak (1), example varieties Crazy Ball Chocolate, Fresh, medium (2), example varieties Temarisou, Breagreen and strong (3), example varieties Hilbregremag, MOR18C53, Hilbrelindo. Only to be examined in cut flower umbrella (*D. barbatus*) types;
2. Addition of the following characteristics (*after* characteristic 21), which are only to be examined in cut flower umbrella (*D. barbatus*) types:
3. **Inflorescence: development of flowers** with states rudimentary (1), example varieties Punky Ball and Temarisou and fully developed (2), example variety Hilbreking;
4. **Only varieties with Inflorescence: development of flowers: rudimentary: Bract: intensity of anthocyanin coloration** with states absent or weak (1), example varieties Punky Ball and Temarisou, medium (2) and strong (3), example variety Crazy Ball Chocolate;
5. **Only varieties with Inflorescence: development of flowers: rudimentary: Bract: distribution of anthocyanin coloration** with states at tip (1), example variety Hilbregremag, distal half (2) and throughout (3), example variety Crazy Ball Chocolate;
6. Revision of item 5.3 – Grouping Characteristics. To include ‘’Only for cut flower ‘umbrella’ (*D. barbatus*) types: Inflorescence: development of flowers’’ as grouping characteristic item (c);
7. Revision of item 6.5 – Legend. To include the explanation for [Cu]: to be examined in cut flower ‘umbrella’ (*D. barbatus*) types;
8. Revision of Technical Questionnaire – item 5. To include the new characteristic ‘’Only for cut flower ‘umbrella’ (*D. barbatus*) types: Inflorescence: development of flowers’’.
9. Revision of item 8.3 – Growing types. To update the explanation for umbrella (*D. barbatus*) (Cu) types.

(a) proposed new characteristic:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.**  **(\*)**  **(+)** | **[Cu]**  **VG** | **Leaf: undulation of margin** |  |  |  |
| **QN** | **(b)** | absent or weak |  | Crazy Ball Chocolate (Cu), Fresh (Cu) | 1 |
|  |  | medium |  | Temarisou (Cu), Breagreen (Cu) | 2 |
|  |  | strong |  | Hilbregremag (Cu), MOR18C53 (Cu), Hilbrelindo (Cu) | 3 |

A line drawing of different types of leaves

Description automatically generated

(b) proposed new characteristics:

I.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.**  **(\*)** | **[Cu]**  **VG** | **Inflorescence: development of flowers** |  |  |  |
| **QL** |  | rudimentary |  | Punky Ball (Cu), Temarisou (Cu) | 1 |
|  |  | fully developed |  | Hilbreking (Cu) | 2 |

II.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.**  **(\*)** | **[Cu]**  **VG** | **Only varieties with Inflorescence: development of flowers: rudimentary: Bract: intensity of anthocyanin coloration** |  |  |  |
| **QN** |  | absent or weak |  | Punky Ball (Cu), Temarisou (Cu) | 1 |
|  |  | medium |  |  | 2 |
|  |  | strong |  | Crazy Ball Chocolate (Cu) | 3 |

III.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.**  **(\*)** | **[Cu]**  **VG** | **Only varieties with Inflorescence: development of flowers: rudimentary: Bract: distribution of anthocyanin coloration** |  |  |  |
| **PQ** |  | at tip |  | Hilbregremag (Cu) | 1 |
|  |  | distal half |  |  | 2 |
|  |  | throughout |  | Crazy Ball Chocolate (Cu) | 3 |

(c) proposed revision of item 5.3 – Grouping Characteristics

*Current wording:*

Only for pot and garden types:

(a) Plant: height (characteristic 2)

(b) Plant: position of flowers compared to foliage (characteristic 4)

For all types (including pot and garden types):

(c) Flower: type (characteristic 37)

(d) Petal: main color (characteristic 50), with the following groups:

Gr. 1: white or near white

Gr. 2: green

Gr. 3: yellow

Gr. 4: orange

Gr. 5: pink

Gr. 6: medium red

Gr. 7: dark red

Gr. 8: violet red

Gr. 9: purple

Gr. 10: pink purple

Gr. 11: purple violet

Gr. 12: violet

Gr. 13: brownish

(e) Petal: secondary color (characteristic 51), with the following groups:

Gr. 1: none

Gr. 2: white or near white

Gr. 3: green

Gr. 4: yellow

Gr. 5: orange

Gr. 6: pink

Gr. 7: medium red

Gr. 8: dark red

Gr. 9: violet red

Gr. 10: purple

Gr. 11: pink purple

Gr. 12: purple violet

Gr. 13: violet

Gr. 14: brownish

(f) Petal: color pattern of secondary color, if present, with the following groups (combination of

Characteristics 52 to 56):

1: marginated

2: striped

3: speckled

4: flushed

5: maculated

*Proposed new wording:*

Only for pot and garden types:

(a) Plant: height (characteristic 2)

(b) Plant: position of flowers compared to foliage (characteristic 4)

Only for cut flower ‘umbrella’ (*D. barbatus*) types:

(c) Inflorescence: development of flowers (characteristic no ...)

For all types (including pot and garden types):

(d) Flower: type (characteristic 37)

(e) Petal: main color (characteristic 50), with the following groups:

Gr. 1: white or near white

Gr. 2: green

Gr. 3: yellow

Gr. 4: orange

Gr. 5: pink

Gr. 6: medium red

Gr. 7: dark red

Gr. 8: violet red

Gr. 9: purple

Gr. 10: pink purple

Gr. 11: purple violet

Gr. 12: violet

Gr. 13: brownish

(f) Petal: secondary color (characteristic 51), with the following groups:

Gr. 1: none

Gr. 2: white or near white

Gr. 3: green

Gr. 4: yellow

Gr. 5: orange

Gr. 6: pink

Gr. 7: medium red

Gr. 8: dark red

Gr. 9: violet red

Gr. 10: purple

Gr. 11: pink purple

Gr. 12: purple violet

Gr. 13: violet

Gr. 14: brownish

(g) Petal: color pattern of secondary color, if present, with the following groups (combination of

Characteristics 52 to 56):

1: marginated

2: striped

3: speckled

4: flushed

5: maculated

(d) proposed revision of item 6.5 - Legend

*Current wording:*

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 4.1.5

(a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

[C] to be examined in cut flower types

[Cs] to be examined in cut flower ‘spray’ types

[G] to be examined in garden types

[P] to be examined in pot types

(C) cut flower type:

- (Co): one flower per stem

- (Cs): spray

- (Cu): umbrella (D. barbatus)

(G) garden type

(P) pot type

*Proposed new wording:*

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 4.1.5

(a)-(d) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

[C] to be examined in cut flower types

[Cs] to be examined in cut flower ‘spray’ types

[Cu] to be examined in cut flower ‘umbrella’ (*D. barbatus*) types

[G] to be examined in garden types

[P] to be examined in pot types

(C) cut flower type:

- (Co): one flower per stem

- (Cs): spray

- (Cu): umbrella (D. barbatus)

(G) garden type

(P) pot type

(e) proposed revision of Technical Questionnaire – item 5

To include the new characteristic **Inflorescence: development of flowers (only for cut flower ‘umbrella’ (*D. barbatus*) types)** with states rudimentary (1), example varieties Punky Ball and Temarisou and fully developed (2), example variety Hilbreking in the TQ *after* item 5.2.

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| **5.3** |  | **Inflorescence: development of flowers (only for cut flower ‘umbrella’ (*D. barbatus*) types)** | | | |
| **No.** |  | rudimentary |  | Punky Ball (Cu), Temarisou (Cu) | 1 [ ] |
|  |  | fully developed |  | Hilbreking (Cu) | 2 [ ] |

(f) proposed revision of item 8.3 – Growing types

*Current wording:*

umbrella (*D. barbatus*) (Cu)

* All types of varieties belong to D. barbatus
* produce clusters of flowers
* most varieties have single flowers

*Proposed new wording:*

umbrella (*D. barbatus*) (Cu)

* All types of varieties belong to D. barbatus
* produce clusters with rudimentary or fully developed flowers
* most varieties have single flowers

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