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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-Second Session Roelofarendsveen, Netherlands, June 8 to 12, 2020 | TWO/52/4  Original: English  Date: April 29, 2020 |

Matters to be resolved concerning Test Guidelines put forward for adoption by the Technical Committee: Coreopsis (*Coreopsis* L.)

Document prepared by an expert from the United Kingdom

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The Enlarged Editorial Committee (TC-EDC), at its meeting held in Geneva, on October 27 and 28, 2019, considered document TG/COREO(proj.3) and agreed that the technical issues raised on the draft Test Guidelines for Coreopsis (*Coreopsis* L.) should be addressed by the Technical Working Party for Ornamental Plants and Forest Trees (TWO) (see document TC/55/25 Corr. “Report”, Annex II).

The following table presents all the comments made by the TC-EDC on the draft Test Guidelines for Coreopsis (document TG/COREO(proj.3)), including the technical issues (indicated below by “#”), with the proposed responses by the Leading Expert, Ms. Hilary Papworth (United Kingdom).

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| --- | --- |
| #Chars. 1, 8, 17, 20, 24, 27, 39, 40, 41, 42 | to add example varieties (see document TGP/7 (GN 28))  *provided by Leading; see Annex to this document* |
| #Chars. 6 to 11 and 15 to 17 | According to Ad. 5, all varieties may have both types of leaves.  Clarification necessary whether all characteristics should be described for varieties with note 1, 2 and 3 in char. 5  *Leading Expert: To have an additional explanation in Chapter 8.1 labelled (c) to apply to Characteristics 6 to 11 and 15 to 17, to read:*  *“Observations should only be made in relation to the predominant leaf type according to Characteristic 5. Where no predominance is observed for Characteristic 5, i.e. both simple and divided leaf type occur in similar amounts, observations should be made on both types of leaf.”* |
| Chars. 12 to 14 | to be moved after char. 17 |
| Char. 30 | “throughout” should be note 15 |
| Char. 32 | to be moved before char. 30 |
| 8.1 (d) | first 8.1(d) to be relabeled “(b)” (type-o) |
| 8.1 (e) | to be replaced by the standard wording (see document TGP/14) |
| Ad. 5 | to read “Some varieties have both types of leaves. The predominant leaf type should be assessed. The state …“ |
| Ad. 19 | to be deleted (see VG) |

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| Ad. 29 | Drawings to be improved. Main color should appear solid to prevent confusion with drawings for char. 30 and 32. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| basal half | basal half and margins | basal three quarters | basal three quarters and margins | distal three quarters |
|  | cid:image011.jpg@01D61E1E.20F99CD0 |  |  |  |
| 6 | 7 |  |  |  |
| distal half | throughout |  |  |  |

|  |  |
| --- | --- |
| #Ad. 30 | - to add explanation clarifying how secondary color can occupy more than 50% of surface (to check whether to read “If the secondary color is not solid, it may be distributed on more than half of the ray floret and the total area is still less than the main color.”)  - Drawings to be improved. Secondary color should not appear solid for state 6 to 11 and 14 to prevent confusion with drawings for char. 30.  *Leading Expert: agreed with proposed wording for Ad. 30 and provided new illustrations* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| none | base | base and margins | basal quarter | basal quarter and margins |
|  |  |  |  |  |
| 6 | 7 | 8 | 9 | 10 |
| basal half | basal half and margins | basal three quarters | basal three quarters and margin | distal three quarters |
|  |  |  |  |  |
| 11 | 12 | 13 | 14 | 15 |
| distal half | distal quarter | tip | throughout | margins |

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| #Ad. 33 | - to check whether to read “If the tertiary color is not solid, it may be distributed in up to half of the ray floret and the total area is still less than the secondary color.”  - Drawings to be improved. Secondary color should not appear solid for state 4 to 8 to prevent confusion with drawings for char. 30 and 32.  *Leading Expert: agreed with proposed wording for Ad. 33 and provided new illustrations* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 1 | 2 | 3 | 4 | 5 |
| none | base | base and margins | basal quarter | basal quarter and margins |
|  |  |  |  |  |
| 6 | 7 | 8 | 9 | 10 |
| basal half | distal half | distal quarter | tip | margins |

[Annex follows]

ADDITION OF EXAMPLE VARIETIES AS PROVIDED BY LEADING EXPERT

The proposed changes are presented below in highlight and underline (insertion)

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QN** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Plant: growth habit** | | | |  | | --- | | **Plante : port** | | | |  | | --- | | **Pflanze: Wuchsform** | | |  | | --- | | **Planta: hábito de crecimiento** | |  |  |
|  |  | upright | | dressé | | aufrecht | erecto | Garnet | 1 |
|  |  | semi-upright | | demi-dressé | | halbaufrecht | semierecto | VIZCOR 609 | 2 |
|  |  | semi-spreading | | demi-étalé | | halb-breitwüchsig | semiextendido | URITW02 | 3 |
|  |  | spreading | | étalé | | breitwüchsig | extendido | Mercury Rising | 4 |
| **8.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Simple leaf: length/width ratio** | | | |  | | --- | | **Feuille simple : rapport longueur/largeur** | | | |  | | --- | | **Einfaches Blatt: Verhältnis Länge/Breite** | | |  | | --- | | **Hoja simple: relación longitud/anchura** | |  |  |
|  |  | low | | bas | | klein | baja | Charlize | 3 |
|  |  | medium | | moyen | | mittel | media |  | 5 |
|  |  | high | | élevé | | groß | alta | Mercury Rising | 7 |
| **17.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Divided leaf: length/width ratio of terminal lobe** | | | |  | | --- | | **Feuille découpée : rapport longueur/largeur du lobe terminal** | | | |  | | --- | | **Geteiltes Blatt: Verhältnis Länge/Breite des Endlappens** | | |  | | --- | | **Hoja dividida: relación longitud/anchura del lóbulo terminal** | |  |  |
|  |  | low | | bas | | klein | baja | PRO358 | 3 |
|  |  | medium | | moyen | | mittel | media | Buttermilk | 5 |
|  |  | high | | élevé | | groß | alta | URITW02 | 7 |
| **20.** | **(\*)** | **QN** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Flower head: position relative to foliage** | | | |  | | --- | | **Capitule : emplacement par rapport au feuillage** | | | |  | | --- | | **Blütenkopf: Position im Verhältnis zum Laub** | | |  | | --- | | **Capítulo: posición con respecto a follaje** | |  |  |
|  |  | below or same level | | en dessous ou au même niveau | | unterhalb oder auf gleicher Höhe | por debajo o al mismo nivel | VIZCOR 609 | 1 |
|  |  | slightly above | | juste au-dessus | | leicht oberhalb | ligeramente por encima | Enchanted Eve | 2 |
|  |  | moderately above | | légèrement au-dessus | | mäßig oberhalb | moderadamente por encima | PRO538 | 3 |
|  |  | far above | | bien au-dessus | | weit oberhalb | muy por encima |  | 4 |
| **24.** | **(\*)** | **QN** | **VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: attitude of basal part** | | | |  | | --- | | **Fleur ligulée : port de la partie basale** | | | |  | | --- | | **Zungenblüte: Stellung des basalen Teils** | | |  | | --- | | **Flor ligulada: porte de la parte basal** | |  |  |
|  |  | strongly ascending | | fortement ascendante | | stark nach oben stehend | muy ascendente |  | 1 |
|  |  | moderately ascending | | modérément ascendante | | mäßig nach oben stehend | moderadamente ascendente |  | 2 |
|  |  | weakly ascending | | faiblement ascendante | | leicht nach oben stehend | ligeramente ascendente | Sophia | 3 |
|  |  | horizontal | | horizontale | | waagerecht | horizontal | Enchanted Eve | 4 |
|  |  | weakly descending | | faiblement descendante | | leicht nach unten stehend | ligeramente descendente | URITW02 | 5 |
|  |  | moderately descending | | modérément descendante | | mäßig nach unten stehend | moderadamente descendente | Pineapple Pie | 6 |
|  |  | strongly descending | | fortement descendante | | stark nach unten stehend | muy descendente |  | 7 |
| **27.** | **(\*)** | **QN** | **MG/MS/VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: length/width ratio** | | | |  | | --- | | **Fleur ligulée : rapport longueur/largeur** | | | |  | | --- | | **Zugenblüte: Verhältnis Länge/Breite** | | |  | | --- | | **Flor ligulada: relación longitud/anchura** | |  |  |
|  |  | low | | bas | | klein | baja | PRO538 | 3 |
|  |  | medium | | moyen | | mittel | media | Starlight | 5 |
|  |  | high | | élevé | | groß | alta | Tweety | 7 |
| **39.** | **(\*)** | **QN** | **VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: longitudinal axis** | | | |  | | --- | | **Fleur ligulée : axe longitudinal** | | | |  | | --- | | **Zungenblüte: Längsachse** | | |  | | --- | | **Flor ligulada: eje longitudinal** | |  |  |
|  |  | strongly incurving | | fortement incurvé | | stark aufgebogen | fuertemente incurvado |  | 1 |
|  |  | moderately incurving | | modérément incurvé | | mäßig aufgebogen | moderadamente incurvado | Ladybird | 2 |
|  |  | weakly incurving | | faiblement incurvé | | leicht aufgebogen | débilmente incurvado | URITW02 | 3 |
|  |  | straight | | droit | | gerade | recto | Balupteamed | 4 |
|  |  | weakly reflexing | | faiblement courbé | | leicht zurückgebogen | débilmente reflexo | Buttermilk | 5 |
|  |  | moderately reflexing | | modérément courbé | | mäßig zurückgebogen | moderadamente reflexo |  | 6 |
|  |  | strongly reflexing | | fortement courbé | | stark zurückgebogen | fuertemente reflexo |  | 7 |
| **40.** | **(\*)** | **QN** | **VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: profile in cross section** | | | |  | | --- | | **Fleur ligulée : profil en section transversale** | | | |  | | --- | | **Zungenblüte: Profil im Querschnitt** | | |  | | --- | | **Flor ligulada: perfil de la sección transversal** | |  |  |
|  |  | strongly concave | | fortement concave | | stark konkav | fuertemente cóncavo | DCOREO16 | 1 |
|  |  | moderately concave | | modérément concave | | mäßig konkav | moderadamente cóncavo | Enchanted Eve | 2 |
|  |  | weakly concave | | faiblement concave | | leicht konkav | débilmente cóncavo | URITW02 | 3 |
|  |  | flat | | plat | | flach | plano | Cosmic Eye | 4 |
|  |  | weakly convex | | faiblement convexe | | leicht konvex | débilmente convexo | PRO538 | 5 |
|  |  | moderately convex | | modérément convexe | | mäßig konvex | moderadamente convexo | VIZCOR 609 | 6 |
|  |  | strongly convex | | fortement convexe | | stark konvex | fuertemente convexo |  | 7 |
| **41.** | **(\*)** | **QN** | **VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: number of indentations at tip** | | | |  | | --- | | **Fleur ligulée : nombre de denticulations du sommet** | | | |  | | --- | | **Zungenblüte: Anzahl Randeinschnitte an der Spitze** | | |  | | --- | | **Flor ligulada: número de indentaciones en la punta** | |  |  |
|  |  | absent or very few | | nul ou très faible | | fehlend oder sehr gering | ausentes o muy bajo | Bengal Tiger | 1 |
|  |  | few | | faible | | gering | bajo | Starlight | 2 |
|  |  | medium | | moyen | | mittel | medio | Buttermilk | 3 |
|  |  | many | | élevé | | hoch | alto | Enchanted Eve | 4 |
|  |  | very many | | très élevé | | sehr hoch | muy alto | VIZCOR 609 | 5 |
| **42.** | **(\*)** | **QN** | **VG** | **(+)** | **(c), (d)** |  | | | |
|  |  | |  | | --- | | **Ray floret: depth of indentations at tip** | | | |  | | --- | | **Fleur ligulée : profondeur des denticulations du sommet** | | | |  | | --- | | **Zungenblüte: Tiefe der Randeinschnitte an der Spitze** | | |  | | --- | | **Flor ligulada: profundidad de indentaciones de la punta** | |  |  |
|  |  | very shallow | | très peu profondes | | sehr flach | muy poco profundas | Buttermilk | 1 |
|  |  | shallow | | peu profondes | | flach | poco profundas | URIT02 | 2 |
|  |  | medium | | moyennes | | mittel | medias | PRO538 | 3 |
|  |  | deep | | profondes | | tief | profundas | Enchanted Eve | 4 |
|  |  | very deep | | très profondes | | sehr tief | muy profundas |  | 5 |

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