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|  |  | E  TWO/46/29  **ORIGINAL:**  English  DATE:  April 26, 2013 |
| INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS | | |
| Geneva | | |

Technical working party for ORNAMENTAL PLANTS AND FOREST TREES

Forty-Sixth Session  
Melbourne, Australia, April 22 to 26, 2013

report

adopted by the   
Technical Working Party for Ornamental Plants and Forest Trees

The Technical Working Party for Ornamental Plants and Forest Trees (TWO) held its forty-sixth session in Melbourne, Australia, from April 22 to 26, 2013. The list of participants is reproduced in Annex I to this report.

The TWO was welcomed by Ms. Fatima Beattie, Deputy Director General, IP Australia, via Webex.

Mrs. Andrea Menne, the former Chairperson of the TWO, thanked Australia for hosting the TWO session.

The session was opened by Mr. Nik Hulse (Australia), Chairman of the TWO, who welcomed the participants and made a presentation on DUS testing in Australia, a copy of which is presented in Annex II to this report.

## Adoption of the Agenda

The TWO adopted the agenda as reproduced in document TWO/46/1 Rev.

## Short Reports on Developments in Plant Variety Protection

1. *Reports on developments in plant variety protection from members and observers*

The TWO noted the information on developments in plant variety protection from members and observers provided in document TWO/46/28 Prov. The TWO noted that reports submitted to the Office of the Union after April 12, 2013, would be included in the final version of document TWO/46/28.

*(b) Reports on developments within UPOV*

The TWO received a presentation from the Office of the Union on the latest developments within UPOV, a copy of which is provided in document TWO/46/27.

## Molecular Techniques

The TWO noted the information provided in document TWO/46/2.

The TWO noted the discussion on molecular techniques at the forty-ninth session of the TC.

The TWO strongly agreed with the TC that there was a need to provide suitable information on the situation in UPOV with regard to the use of molecular techniques to a wider audience, including breeders and the public in general. That information should explain the relationship between genotype and phenotype and the reasons such techniques are generally not appropriate in DUS examination.

The TWO noted that the TC had proposed to hold a coordinated meeting of the BMT with ISO, ISTA and OECD and including breeders; and that if it was not possible to organize a coordinated meeting in 2014, a meeting of the BMT would be organized in the meantime.

## TGP documents

The TWO considered developments concerning TGP documents on the basis of document TWO/46/3 Rev.

The TWO noted the agreement of the TC and the CAJ to submit document TGP/15/1 “Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)” for adoption by the Council, at its forty-seventh session, to be held on October 24, 2013.

The TWO noted the agreement of the TC and the CAJ to invite the Council to adopt document TGP/14/2 “Glossary of Terms Used in UPOV Documents” at its forty-seventh session, to be held on October 24, 2013, and noted that the Council would be invited to adopt document TGP/0/6, in order to reflect the adoption of documents TGP/15/1 and TGP/14/2.

The TWO noted the matters approved by the TC for a future revision of documents TGP/7, TGP/8 and TGP/9, as set out below:

### (a) TGP/7: Development of Test Guidelines

1. *Coverage of Types of Varieties in Test Guidelines*
2. *Selection of Asterisked Characteristics*
3. *Standard References in the Technical Questionnaire*
4. *Applications for Varieties with Low Germination*
5. *Procedure for the Development of Test Guidelines*
6. *Quantity of Plant Material Required*
7. *Minimum Quantity of Plant Material*
8. *Guidance on Number of Plants to be Examined (for Distinctness)*
9. *Guidance for Method of Observation*
10. *Example Varieties*
11. *Providing Photographs with the Technical Questionnaire*
12. *Duration of Test*
13. *Number of Plants Required for Description*

### (b) TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

#### Part I: DUS Trial Design and Data Analysis

1. *New Section 2: “Data to be recorded”*
2. *New Section: “Reduction of Size of Trials”*

#### Part II: Techniques Used in DUS Examination

1. *Section 3: “The Combined-Over-Years Criteria for Distinctness (COYD)”*
2. *Section 3, Subsection 3.6: “Adapting COYD to special circumstances”*
3. *Section 4: “2x1% Method-Minimum Number of Degrees of Freedom for the 2x1% Method”*

### (c) TGP/9: Examining Distinctness

1. *Guidance on Number of Plants to be Examined (for Distinctness)*
2. *Providing Photographs with the Technical Questionnaire*

The TWO noted the agreement of the TC that a draft revision of document TGP/5 Section 10 “Notification of Additional Characteristics and States of Expression” be presented for consideration by the TC at its fiftieth session, subject to the conclusion of discussions on disclaimers on UPOV documents in the Consultative Committee.

The TWO also noted the matters for discussion on future revision of documents TGP/7, TGP/8 and TGP/14 that would be dealt with on the basis of documents TWO/46/9 to TWO/46/21 and TWO/46/23.

The TWO noted the program for the development of TGP documents, as set out in the Annex to document TWO/46/3 Rev..

### TGP/7: Development of Test Guidelines

#### Revision of document TGP/7: Additional Standard Wording for Growing Cycle for Tropical Species

The TWO considered document TWO/46/9, which was presented by an expert from New Zealand.

The TWO considered the following proposed Additional Standard Wording (ASW) for growing cycle of tropical species:

*New (after (b)): Tropical fruit species*

The growing cycle is considered to be the period ranging from the beginning of flowering of an individual flower or inflorescence, through active flowering and fruit development and concluding with fruit harvest.

The TWO noted that the proposed ASW provided guidance for fruit species and agreed that it was a matter for consideration by the TWF. It noted that the drafter from New Zealand would propose to the TWF that the title of the ASW should be “Fruit species with indeterminate growth”.

#### Revision of document TGP/7: Source of Propagating Material

The TWO considered the proposed guidance on source of propagating material, as presented in Section IV “Guidance for drafting Test Guidelines” of the Annex to document TWO/46/10. The proposed guidance was presented by an expert from the European Union.

The TWO agreed that it would not be appropriate to seek to insert additional standard wording on source of propagating material in the Technical Questionnaire, Section 9.2. However, the TWO noted that the document provided useful information on the effects of the source of propagating material and requested the preparation of a condensed version as a source of general guidance for drafters of Test Guidelines, for inclusion in document TGP/7.

#### Revision of document TGP/7: Indication of Growth Stage in Test Guidelines

The TWO considered document TWO/46/11.

The TWO noted that ornamental plants are usually observed at the time of full flowering and the indication of growth stages in Test Guidelines should remain optional and to be used where appropriate.

The TWO agreed that the Additional Standard Wording 4 (ASW 4) should be amended in order to reflect the current practice in UPOV Test Guidelines to indicate growth stages using letters, numbers or combinations of letters and numbers, to read as follows:

“The optimum stage of development for the assessment of each characteristic is indicated by a ~~number~~ reference in the second column of the Table of Characteristics. The stages of development denoted by each ~~number~~ reference are described in Chapter 8 […].”

#### (iv) Revision of document TGP/7: Providing Illustrations of Color in Test Guidelines

The TWO considered document TWO/46/12.

The TWO agreed to propose the following guidance be included in a future revision of document TGP/7:

“~~Particular caution is needed when considering the~~ It is generally not appropriate to use ~~of~~ illustrations of color in the Test Guidelines because the color in photographs can be affected by the technology of the camera, ~~and~~ the facilities used to display the photograph (including printer, computer and screen~~, etc.~~) and lighting conditions under which the photograph is taken. Furthermore, the expression of color may vary according to the environment in which the variety is grown. For example, a photograph of a “~~light~~ weak intensity” of anthocyanin coloration provided by the Leading Expert in one UPOV member may not represent a “weak ~~light~~ intensity” of anthocyanin coloration in another UPOV member.”

#### (v) Revision of document TGP/7: Presence of Leading Expert at Technical Working Party Sessions

The TWO considered document TWO/46/13 and agreed with the proposed guidance on the presence of Leading Experts at Technical Working Party sessions, for inclusion in a future revision of document TGP/7, section 2.2.5.3, as set out below:

“2.2.5.3 Requirements for draft Test Guidelines to be considered by the Technical Working Parties

“Unless otherwise agreed at the TWP session, or thereafter by the TWP Chairperson, the timetable for the consideration of draft Test Guidelines by the Technical Working Parties is as follows:

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| --- | --- |
| Action | Latest date  before the TWP session |
| Circulation of Subgroup draft by Leading Expert: | 14 weeks |
| Comments to be received from Subgroup: | 10 weeks |
| Sending of draft to the Office by the Leading Expert: | 6 weeks |
| Posting of draft on the website by the Office: | 4 weeks |

“In cases where *either* of the deadlines for circulation of the Subgroup draft or for the sending of the draft to the Office by the Leading Expert is not met, the Test Guidelines would be withdrawn from the TWP agenda and the Office would inform the TWP accordingly at the earliest opportunity (i.e. not later than 4 weeks before the TWP session). In those cases where draft Test Guidelines are withdrawn from the TWP agenda because of failure by the Leading Expert to meet the relevant dates, it would be possible for specific matters concerning those Test Guidelines to be discussed at the TWP session. However, to consider specific matters it would be necessary for a document to be provided to the Office at least 6 weeks before the TWP session.”

“In order to be considered by a Technical Working Party, the Leading Expert of the draft Test Guidelines should be present at the session, unless a suitable alternative expert can be arranged to act as the Leading Expert sufficiently in advance of the session, or unless the Leading Expert is able to participate by electronic means.”

### TGP/8: Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability

(i) *Revision of document TGP/8: Part I: DUS Trial Design and Data Analysis, New Section: Minimizing the Variation due to Different Observers*

The TWO considered document TWO/46/14.

The TWO proposed that experts from Australia, Germany, the Netherlands and the United Kingdom help to develop further guidance on the proposed text to be included in TGP/8 Part I: DUS Trial and Design and Data Analysis, New Section: Minimizing the Variation due to Different Observers, in a future revision of document TGP/8, with regard to guidance on PQ and QN/MG characteristics.

The TWO noted, however, the importance of the Test Guidelines in providing clear guidance for DUS examiners and to ensure consistency of observations.

#### (ii) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination, Section 3: Method of Calculation of COYU

The TWO considered document TWO/46/15.

The TWO noted that:

(a) the TC had requested the TWC to continue its work with the aim of developing recommendations to the TC concerning the proposals to address the bias in the present method of calculation of COYU; and that

(b) a document on possible proposals for improvements to COYU would be prepared for the TWC session in 2013.

#### (iii) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section 10: Minimum Number of Comparable Varieties for the Relative Variance Method

The TWO considered document TWO/46/16, which was presented by an expert from Australia.

The TWO noted the comments made by the TWPs at their sessions in 2012 and the TC, at its forty‑ninth session in 2013. The TWO agreed with the proposed amendments for revision of Section 10 of document TGP/8 and the new proposed guidance in paragraphs 10.2.2 and 10.6 to specify the minimum number of comparable varieties in the relative variance method.

#### (iv) Revision of document TGP/8: Part II: Selected Techniques used in DUS Examination, New Section: Examining DUS in Bulk Samples

The TWO considered document TWO/46/17.

The TWO noted that the TC had agreed to replace the proposed text for new Section 11 “Examining DUS in Bulk Samples” in the Annex to document TC/49/28 with guidance on the use of characteristics examined on the basis of bulk samples, in order to ensure that the characteristics fulfill the basic requirements for a characteristic.

The TWO agreed that Leading Experts of Test Guidelines could be requested to provide data from different years to demonstrate that the expression of the characteristic is “sufficiently consistent and repeatable in a particular environment”.

#### (v) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination”, New Section: Data Processing for the Assessment of Distinctness and for Producing Variety Descriptions

The TWO considered document TWO/46/18.

The TWO considered the developments on a practical exercise with a common data set to produce variety descriptions of self‑pollinated and/or vegetatively propagated varieties, in order to determine the aspects in common and divergence between methods, with a view to developing general guidance.

The TWO agreed with the practical exercise and requested the development of guidance on data processing for the assessment of distinctness and for producing variety descriptions of vegetatively propagated crops.

#### (vi) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section: Guidance of Data Analysis for Blind Randomized Trials

The TWO considered document TWO/46/19.

The TWO noted the comments made by the TWPs at their sessions in 2012 and the TC-EDC in 2013, and considered the draft new Section on “Guidance for Data Analysis for Blind Randomized Trials”.

The TWO noted that the draft new section related to the DUS trial design and suggested to change the title to “Draft guidance for blind randomized trials conducted by the authority or a third party”.

The TWO suggested that the introduction to be provided should be generic and requested the addition of an example for ornamental plants.

#### (vii) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section: Examining characteristics using image analysis

The TWO considered document TWO/46/20.

The TWO noted the information on software and hardware used for image analysis, as set out in Annex I to document TWO/46/20.

The TWO noted that the AIM software for image analysis would be considered in document TWO/46/7 “Exchangeable software”.

The TWO noted that a draft of the new section “Examining Characteristics Using Image Analysis” for document TGP/8 would be presented to the TWC in 2013.

#### (viii) Revision of document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section: Statistical methods for visually observed characteristics

The TWO considered document TWO/46/23.

The TWO noted that:

1. the TC had agreed that it would not be appropriate to continue the development of a section on “Statistical Methods for Visually Observed Characteristics”, unless new guidance was provided beyond the methods already provided in document TGP/8; and

(b) requested the TWC to clarify if it proposed to modify an existing method or provide a new additional method.

### TGP/14: Glossary of Terms Used in UPOV Documents

#### (i) Revision of document TGP/14: Section 2: Botanical Terms, Subsection 3: Color, Definition of "Dot"

The TWO considered document TWO/46/21.

The TWO agreed that “dot” was a small “spot” and that only the term “spot” should be used in the future, according to the guidance provided in document TGP/14: Section 2: Botanical Terms, Subsection 3: Color. The TWO proposed that the Test Guidelines should be revised whenever the use of these terms could cause confusion.

## Variety denominations

The TWO considered document TWO/46/4.

The TWO noted the developments concerning the International Commission for the Nomenclature of Cultivated Plants of the International Union for Biological Sciences (IUBS Commission) and the International Society for Horticultural Science Commission for Nomenclature and Cultivar Registration (ISHS Commission), of relevance for UPOV.

The TWO supported the initiatives for cooperation and harmonization between UPOV, the IUBS Commission and ISHS, including the initiative for UPOV to have observer status in the IUBS Commission.

## Information and databases

1. *UPOV information databases*

The TWO considered document TWO/46/5.

The TWO experts were invited to check the amendments to UPOV codes and the new UPOV codes or new information added for existing UPOV codes by July 31, 2013.

The TWO noted the developments concerning the program for improvements to the Plant Variety Database since the forty-fifth session of the TWO.

The TWO noted that an introduction to the PLUTO database would be included in the Preparatory Workshop of future TWP sessions.

The TWO noted the plans of the Office of the Union to conduct a survey of members of the Union on their use of databases for plant variety protection purposes and on their use of electronic application systems.

## Uniformity assessment

1. *Assessing uniformity by off-types on the basis of more than one sample or sub‑samples*

The TWO considered document TWO/46/22 Rev. and noted that:

1. the TWC had agreed that more detailed information and further analysis were needed in order to give guidance on consequences on the use of the different approaches presented in Annex I to IV of document TWO/46/22 Rev., and that France, Germany and the Netherlands would present one or more concrete situations in their countries and the statistical basis of their analysis for its next session;
2. the TWC had agreed that the statistical basis for the acceptable number of off‑types in the subsample of 20 plants used in the context of a sample size of 100 plants (situation D) would be assessed by experts from France and Germany; and

(c) with regard to the approach combining the results from two growing cycles, as set out in Annexes I and II, Situation A and B, the TC had agreed that care would be needed when considering results that were very different in each of the growing cycles, such as when a type of off-type was observed at a high level in one growing cycle and was absent in another growing cycle.

*(b) Testing uniformity of apple varieties arising from mutation*

The TWO considered document TWO/46/26, which was presented by an expert from New Zealand.

The TWO noted the current practice for the assessment of uniformity and stability by off-types on the basis of two samples for apple varieties originating as mutations in New Zealand.

Matters to be resolved concerning Test Guidelines adopted by the Technical Committee

There were no items to be resolved under this item.

## Discussion on draft Test Guidelines

*Abelia (*Abelia *R.Br.)*

The subgroup discussed document TG/ABEL(proj.1) Corr., presented by Mrs. Françoise Jourdan (France) and agreed the following:

|  |  |
| --- | --- |
| Cover page | to read in name box: *Abelia*  R. Br.  to read: “Abelie” for common name in German |
| 1. | to change “BR.”: to “Br.” |
| 2.3  3.4.1  4.2 | to refer to: 8 plants |
| 4.1.4 | to refer to: 7 plants |
| 5.3 | to review grouping Chars. |
| T.o.C. | to update all example varieties  to check example variety to read: “Golden Panache” instead of “Golden Panaché” |
| Chars. 1, 3, 31 | to add (+) and illustration  to be indicated as VG |
| Char. 2 | to be indicated as VG/MG |
| Char. 3 | to read: Plant: density  to be indicated as QN |
| Char. 4 | to check to read: Stem: color  to be indicated as VG |
| Char. 5 | to check if any deciduous species  to read: Plant: persistence of foliage  if retained, to move to before Char. 1 |
| Char. 6 | to consider using color groups  to consider to read: Young shoot: main color  to add (+) and explanation on main color |
| Char. 7 | to check to be moved after New Char. Before Char. 10  to have states: below middle (1); at middle (2); above middle (3)  to add (+) and provide illustration as a grid (TGP/14) |
| Chars. 8, 9, 20 | to be indicated as VG/MS/MG |
| Chars. 7, 16, 18, 19, 21, 23, 24, 25, 27, 28, 31, 32 | to be indicated as VG |
| New Char. before 10. | to read “Leaf blade: length/width ratio” with states: low (1); medium (2); high (3) |
| Char.10 | to be moved after Char. 14 |
| Chars.11 | to add (+) and explanation of main color  to check method for identifying main color  to check whether to combine with Char. 12 and add states “light green; medium green; dark green” |
| Char.13 | to add (+) and explanation of secondary color  to check whether “distribution of secondary color” |
| Char.14 | to check whether other patterns should be added  to add (+) and explanation  to read: state (1): irregular |
| Char.15 | to be indicated as VG and QN  to have states: absent or very weak (1); weak (2); medium (3); strong (4) |
| Char.16 | to reduce to 5 notes |
| Char.17 | to check whether to delete or to read “blistering” |
| Char.18 | to read: Plant: floriferousness  to move to end of T.o.C.  to add example varieties for states 1 and 9 |
| Char. 20 | To replace with 2 x Chars. to read:  Corolla: length  Corolla: diameter |
| Chars. 21, 24 | to add (+) and illustration on how to observe |
| Char. 23 | to check whether to delete ‘of margin’ |
| Char. 25 | to read: Corolla throat: hairiness of blotch  to combine with Char. 26 and have states: absent or very weak (1); medium (3); strong (5) |
| Char. 26 | to delete |
| New after Char. 26 | to read: Corolla tube: color of outer side  to have RHS Colour Chart  to be indicated as VG |
| Chars. 27, 28 | to move after Char. 31 |
| Char. 28 | to have states: white (1); yellowish (2); light purple (3) |
| Char. 29 | to check whether to read “Calyx: color” or “Sepal: color” |
| Chars.29, 30, 31 | to be moved after Char. 17 |
| Char. 30 | to be indicated as VG/MG  to have states: only two (1); only four (2); only 5 (3); between two and five (4) |
| Char. 31 | to have states: ovate (1); medium elliptic (2); broad elliptic (3) |
| Char. 32 | to read “fragrance” instead of “fragance”  to reduce notes to 1, 2, 3 |
| Char. 33 | to consider to delete |
| Table of Chars. | to check whether all characteristics should have (\*) |
| 8.1 | to delete “All” in (a)  to read: (b) Observations are made on fully expanded leaves. |
| 9 | to add literature |
| TQ1 | to add a box for species name |
| TQ 5 | to check whether 5.2 (Char. 2) to be added as grouping characteristic  to add color groups to 5.6 (Char. 22) |

*Aglaonema* (Aglaonema *Schott.*)

The subgroup discussed document TG/AGLAO(proj.3), presented by Mr. Kenji Numaguchi (Japan) and agreed the following:

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| --- | --- |
| Cover page; alternative names | to check whether alternative common names in French, German and Spanish exist |
| 5.3 | to follow TGs for Heuchera  to be replaced by TQ Chars. |
| Char. 6 | to delete the second “(b)” index in duplicity |
| Char. 9 | to have states: none (1); white (2); yellow (3); green (4); pinkish (5); reddish (6)  to add example varieties |
| Char. 13 | to be indicated as QN  to read “towards” |
| Chars. 17, 21, 25, 29, 33, 37, 41 | to add (d) |
| Chars. 34 to 44, 46 | to delete (c) |
| Char. 45 | to read: Leaf blade: glossiness |
| Char. 49 | to check spelling of example variety “Lagarzy” |
| 8.1.1 (a) | to read: Plant should be observed in active growth when the stem has 8 to 10 fully grown leaves. |
| 8.1.1 (b) | to read: Leaf should be observed on the fourth to sixth fully grown leaf from the top of the plant |
| Examples 1 to 4 | to remove “Ad.” from tables |
| Example 1 | to change illustration to relate to table and to check to add “yellow” as Color 1  to delete duplication of “veins” in Ad. 18 |
| Ad.19, 23, 27, 31, 35, 39,43 | to add illustration of states 3 and 4 |
| Ad. 46 | to improve illustration |
| Ad. 48 | to have illustrations of cross sections |
| Ad. 49 | to have “upper side” |
| Ad. 50 | to clarify illustrations |
| 9 | to check literature and correct spelling of “Catalogue” |
| TQ 1 | to revise order in accordance with TGP/7 (Botanical name, common name, species) |
| TQ 5 | to revise in accordance with change to 5.3 above |

*Aloe (*Aloe *L.*)

The subgroup discussed document TG/ALOE(proj.2), presented by Mr. Adriaan de Villiers (South Africa) and agreed the following:

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| --- | --- |
| Name box | to include UPOV CODE “GASAL” for *Aloe* x*Gasteria* hybrids |
| Alternative names | to include common name in Spanish “Sabila” |
| 1 | to check the species to be included |
| Char. 1, 4, 10 | to add example varieties |
| Char. 5 | to delete text within brackets |
| Char. 6 | to be indicated as PQ |
| Char. 7 | to add (+) and explanation on where to be observed |
| Char. 8 | to check whether to include states (1) and (9)  state (3) to read: moderately incurved  state (7) to read: moderately recurved |
| Char. 9 | to have states “strongly acute; moderately acute; slightly acute”  to be indicated as PQ  state (4) to read: obtuse |
| Char. 15 | to delete “non-marginal” |
| Char. 16 | to delete “non-marginal” |
| Char. 24 | to be divided into two characteristics: “Shape: conical; conical-cylindrical; cylindrical; capitate to conical; corymbose-capitate” and “Ratio length-diameter” |
| Char. 25 | to be indicated as VG |
| Char. 39, 40, 41 | to remove underline |
| Char. 41 | to reverse states “brown” and “red” |
| 8.1 | to read “Observations should be made when 20% of flowers are open on the terminal raceme” |
| Ad. 1 | to change illustration to exclude inflorescence |
| Ad. 6 | to be presented in row |
| Ad. 20 | illustration to read same as heading of characteristic |
| Ad. 24 | to be updated according to new characteristics |
| TQ 1 | to be updated according to the new scope |
| TQ 5.2 | to update order of colors according to the Characteristic in T.o.C |
| TQ 5.5 | to be updated |
| TQ 5.6 | to remove underline |
| TQ 6 | according the states presented in Char. 13 |

[[1]](#footnote-2)\**Campanula* (Campanula *L.*)

The subgroup discussed document TG/CAMPA(proj.3), presented by Miss Elizabeth Scott (United Kingdom) and agreed the following:

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| --- | --- |
| Table of Characteristics | to check throughout all mentions to “MG/MS” to include also “VG”  to add example varieties |
| Char. 8 | to check whether to indicate to be assessed at widest point |
| Char. 10 | state (4) to read “towards apex” (to delete “moderately”) |
| Char. 14 | to add example varieties for states (1) and (7)  example variety (8) to read “Blue Rivulet” (two words) |
| Char. 25 | to read “Only varieties with calyx: petaloid lobes present: Calyx lobe: color of outer side”  to delete (+) |
| 8.1 | to check whether to have (a) or a general explanation that “observations should be made during time of full flowering;  to improve explanation on main and secondary colors (according TGP/14); |
| Ad. 10 | to adjust length of state (3) to match others |
| Ad. 28, 29 | to add illustration on different types of flowers  to change font to arial for “length” in illustration |
| Ad. 32 | to check presentation of states (8) and (9)  to check if there are varieties with partial coloration of midrib |
| Ad. 39, 40 | to correct font in illustrations |
| 9. | To check punctuation for first two references  to add page numbering to references |
| TQ 6 | to use example with more similar states of expression |

\**Carnation (*Dianthus *L.)*

The subgroup discussed document TG/25/9(proj.6), presented by Ms. Katie Pont (Netherlands) and agreed the following:

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| --- | --- |
| Alternative names box | to read “Carnation, Clove Pink, Pink, Sweet William” in English |
| 3.3 | to check to clarify conditions for examination for the different types and ensure distinctness |
| 5.3 | to check if to have more grouping characteristics (see TQ 5) |
| 6.4 | to read “cut flower” (without hyphen) |
| Chars. 1 to 9 | to change presentation structure with appropriate guidance on assessment of the different types of plant covered in the Test Guidelines |
| Char. 4 | to be indicated as QN |
| Char. 6 | to add example variety for state 1  to be indicated as QN |
| Char. 7 | to check if example variety for state (3) should be in capital letters |
| Char. 9 | state “horizontal” to read “flat” |
| Chars. 10, 15, 29, 30, 49 | to check if example variety for state (7) should be in capital letters |
| Char. 18 | to check if example variety for state (1) should be in capital letters |
| Char. 12 | to add state “intermediate”  to read “shape in cross section” |
| Char. 13 | to check wording (hollowness/pith in cross section)  to add explanation in 8.1 “to be observed between half way between nodes” |
| Char. 23 | to check if example variety for state (9) should be in capital letters |
| Char. 26 | to add note for state 2 |
| Char. 33 | to read “margin of lobe” |
| Char. 35 | to clarify illustration to present the structures indicated  to add intermediate state |
| Char. 38 | to delete states (1) and (9) (to be presented as (3), (5), (7)) |
| Char. 45 | to read “Petal: number of incisions of margin” with states “absent or few, medium, many” |
| Char. 51 | to delete state “none” |
| Char. 52 | to read “Petal: width of secondary color at margin”  to have states “absent or very narrow”, “narrow”, “medium”, “broad”  to update illustrations  to be indicated as QN |
| Char. 53 | to be indicated as QN |
| Char. 54 | to read “Petal: number of stripes as secondary color”  to have states “none or very few”, “few”, “medium”, “many”  to be indicated as QN |
| Char. 55 | to read “Petal: number of speckles as secondary color”  to have same states as Char.54  to be indicated as QN |
| Char. 56 | to read “Petal: area of secondary color as flush”  to have states “absent or very small”, “small”, “medium”, “large”  Notes 1 to 4  to be indicated as QN |
| Char. 57 | to read “Petal: size of secondary color as macule”  same states as 56  to be indicated as QN |
| Char. 59 | to add example varieties or illustrations for states (2), (3) and (4)  to delete “striated” and to read “striped” |
| Char. 61 | to check if example variety for state (2) should be in capital letters |
| Char. 63 | to check if example variety for states (4) and (5) should be in capital letters |
| 8.1 (c) | to be moved from 8.1 (c) to section 8.2, Ad. 22, Ad. 23 |
| 8.1 (d) | to clarify “outer third row” |
| 8.1 (e) | to check improve wording according to TGP/14 |
| Ad. 21 | to delete the word “your” |
| Ad. 22 | to check to have state “oblong” in middle row |
| Ad. 24 | to check illustration of state (2) and to add explanation |
| Ad. 40 | to include illustration of “*barbatus*” (single flower)  to adjust arrows to indicate the correct size of corolla |
| Ad. 43 | to check to replace with illustration for “type 7” |
| Ad. 45 | to keep one illustration for each state |
| Ad. 65 | to check to clarify illustration (to indicate shoulder present) |
| TQ 1 | to insert a box for “species name” |
| TQ 5.3 ii | to include a group “purple violet” |

*China Aster (*Callistephus chinensis *(L.) Nees)*

The subgroup discussed document TG/CALSP(proj.2), presented by Mr. Kenichi Atsuta (Japan) and agreed the following:

|  |  |
| --- | --- |
| Chars. 3, 4 | to add (+) |
| Chars. 3, 5 | to add (b) |
| Chars.13, 21 | to read “low” and “high” instead of “small” and “large” |
| Char. 14 | to delete “of upper side” |
| Char. 15 | to read: state (1): without ray floret |
| Char. 16 | to delete underlined part  to add state (1) “absent or very few” with example variety “Hulk” |
| Char. 19 | to read: Outer ray floret: length |
| Char. 20 | to read: Outer ray floret: width |
| Char. 21 | to read: Outer ray floret: ratio length/width  to add (+) and explanation |
| Chars. 19, 20, 21, 22, 23, 24, 25, 26, 27, 30 | to add (f) |
| Chars. 19, 20, 21, 23, 24, 25, 26, 27, 28, 29 30, 31 | to read: “Outer ray floret” instead of “in outermost row” or “in outer rows” |
| Char. 22 | to read: Outer ray floret: shape |
| Chars.29, 37 | to be indicated as “VG” |
| Char. 29 | to read: Outer ray floret: main color of outer side |
| Chars. 30, 31, 32, 33, 34, 35, 36, | to read: “Inner ray floret” instead of “in innermost row” or “in inner rows” |
| Char. 37 | to read: Inner ray floret: main color of outer side |
| 8.1 | To read:  (a) Observations should be made at the time of full flowering.  (c) Observations on the petiole and the leaf blade should be made on the upper side of fully developed typical leaves of the longest primary lateral shoots.  (f) Outer ray floret should be observed on the ray florets in the outermost row. |
| Ad. 15 | to improve wording for type double and type anemone-like to read:  1: without floret flower heads with no ray floret  4: double double flower heads where no disc is visible at any stage of flowering  5: anemone-like flower heads with one or more rows of ray florets with a central disc of petaloid florets, which is always visible and clearly defined |
| Ad. 38 | to check anchors on images/lines |
| 9. | to read: …vol. XXIII (add space)  …Volume 1 (add space)  Inoue, Y. (add space)  Yashiro, Y. (add space) … Volume 11 (add space) |

*Cordyline* (Cordyline *Comm. Ex. Juss.*)

The subgroup discussed document TG/CORDY(proj.1), presented by Ms. Serra Kilduff (New Zealand) and agreed the following:

|  |  |
| --- | --- |
| Cover page  Alternative names | to read “*Cordyline* Comm. ex. Juss.” throughout  to read “Cordyline” in English, French, Spanish  to read “Cordyline; Keulenbaum; Keulenlilie” in German |
| 1. | to consider having separate guideline for *C. fruticosa* varieties |
| 2.3 | to read “10 plants” |
| 3.4.1 | to read “10 plants” |
| 4.1.4 | to read “9 plants” |
| 4.2.2 | to read “10 plants” |
| 5.3 | to review grouping characteristics |
| 5.3 (e) | to check whether to replace “second color” by “secondary color” |
| T.o.C. | to have other asterisked characteristics |
| Char. 1 | to be indicated as QN  to consider having notes: 1, 3, 5 |
| Char.2 | to read: Plant: height of foliage  to add example varieties to states (1) and (9) |
| Char. 4 | to consider to read: “Plant: basal shoots” with states: absent (1); present (9) |
| Char. 5 | to review the Characteristic |
| Char. 6 | to check if necessary. If yes, to provide explanation |
| Char.7 | to consider deleting |
| Char.8 | to add example varieties (see Ad. 8) or consider deleting  to delete state (4) |
| Char.9 | to review Characteristic  to add example varieties (see Ad. 9) |
| Chars. 12, 13 | to provide illustration |
| Chars. 15 to 21 | to review description of color (consider Lisbon approach)  to check distribution of color and pattern |
| Char. 16 | to read “secondary color”  to add (+) and provide explanation on “young leaf” |
| Char. 21 | to check whether to read: “throughout” instead of “entire” |
| Char. 23 | to read: “Mature leaf: glossiness”  to have notes: absent or weak (1); medium (2); strong (3) |
| Chars. 24, 25, 26 | to consider moving to before Char. 7 |
| Chars. 25, 27, 30 | to check to add illustration |
| Char. 26 | to improve illustrations |
| Chars. 27 to 32 | to consider deleting all inflorescence and flower Chars. |
| 8.1 | to be completed |
| Ad. general | to delete names in brackets of example varieties  to renumber according to respective characteristics |
| Ad.9 | to check and add illustrations for states 1 and 7 |
| Ad.13 | to check numbering with respective characteristic (12)  to check to add illustrations |
| Ad. 16, 20 | to update explanation of main color according to TGP/14 |
| Ad. 17, 21 | to read “secondary color” instead of “second color” |
| Ad.18, 22 | to check to add illustrations for states 3, 4, 5 and 6 |
| 9. | to be added |
| TQ 1.1 | botanical name to read “*Cordyline* Comm ex. Juss.” |
| TQ 5 | to be reviewed with respect to 5.3 grouping characteristics |

\**Cosmos* (Cosmos *Cav.*)

The subgroup discussed document TG/COSMOS(proj.5), presented by Mr. Takayuki Mikuni (Japan) and agreed the following:

|  |  |
| --- | --- |
| Alternative names box | to add “Mirasol” in Spanish |
| 2.3 | to correct spelling of “propagated” |
| 3.4.2 | to delete quotation mark at end of paragraph |
| 4.2.1 | to read “seed propagated” as cross-pollinated  to delete paragraph numbering “4.2.2” and “4.2.3” |
| Char. 10 | to read “Leaf: width of terminal lobe (if present)” |
| Char. 12 | to be moved after 14 |
| Char. 20 | to read “reflexed” |
| Char. 21 | to delete “(straight florets excluded)”  to add state (1) “absent”; and renumber (2) weak; (3) medium; (4) strong |
| Char. 22 | to delete “(straight florets excluded)”  states to become (1) none, (2) tip, (3) distal half, (4) distal three quarters, (5) entire length  to review the illustrations accordingly |
| Chars. 26, 27 | to delete (+) |
| Chars. 30, 31, 32 | to delete (+) |
| Char. 32 | to add explanation of tertiary color as in 8.1 (c) |
| 8.1 (a) | to read “Observations on the leaf should be made on the leaves from the middle third of the stem.” |
| 8.1 (b) | to read “Observations on the ray floret should be made on the outermost row of ray florets.” |
| Ad. 3 | to clarify diagram  to read “Primary branches should be observed on the branches indicated by arrow on the following diagram” |
| Ad. 23, 24 | to adjust lines in illustration |
| Ad. 35 | to read “The color of disc should be observed just before anther dehiscence for daisy type, and at the time of full flowering for anemone type”. |
| 9. | to complete literature references 2 and 3 |
| TQ 1 | to check to have boxes on “Subject of the Technical Questionnaire” according to TGP/7 |

*Grevillea* (Grevillea *R. Br. Corr. R. Br.*)

The subgroup discussed document TG/GREVI(proj.1), presented by Mr. Nik Hulse (Australia) and agreed the following:

|  |  |
| --- | --- |
| Cover page | to consider limiting the scope of the TG to a sub-set of species  to check alternative names in French, German and Spanish |
| T.o.C. | to check to add more (\*) Chars.  to check to clarify time of assessment of all characteristics (3.3 or 8.1) |
| Char. 1 | to review states of expression and to provide clearer explanation of states |
| Char. 2 | to be indicated as QN and to add illustration |
| Char. 4 | to be indicated as QN |
| Char. 7 | to read: “Young stem: presence of hairs”  to check whether QL  to delete if not QL |
| Char. 8 | to read: Leaf: length of petiole |
| Char. 9 | to read: Leaf: length of blade |
| Chars. 15, 16 | to have notes 1, 2, 3 |
| Char. 17 | to check whether QL |
| New Char. | to check if any varieties with bipinnate leaves are under application, if so to have new Char. to read: Leaf: type |
| Char. 19 | to review order of Chars. In line with TGP/7 GN26  to check if QL |
| Chars.21 | to check whether QL  to add (+) and provide illustration on how to observe |
| Chars. 24, 25 | to check if QL and to add (+) and illustration |
| Char. 27 | to reduce to 5 states  to check to clarify where to observe |
| Chars. 28, 29 | to check to move before Char. 26 |
| Char. 30 | to move after Char. 20 |
| Char. 31 | to add (+) and provide illustration or explanation |
| Char. 32 | to add (+) and illustration |
| Char. 33 | to be indicated as QN |
| Char. 34 | to have notes 1, 2, 3 |
| Char. 37 | to provide illustrations  to have state (4) “conic” |
| Char. 39 | to have states order “white, green, yellow, orange, pink, red, black” |
| Char. 41 | to read: Inflorescence: number of florets  to check to clarify with Char. 40 |
| Char. 43 | to check to add (+) and illustration |
| Char. 44 | to check whether to have additional state: absent or very short  to consider having notes 1, 2, 3 |
| Char. 45 | to be indicated as QN  to check order of Char.  to add illustration  to check whether QN |
| Char. 46 | to have state (1) “yellow” and state (2) “green” |
| Char. 47, 54, 56, 58, 63, 66, 70 | to have state (2) “yellow” and state (3) “green” |
| Char. 51 | to check whether to delete |
| Char. 55 | to add (+) and illustration |
| Char. 58 | to add notes |
| Char. 60 | to check whether QL |
| Char. 62 | to read: Style: distribution of hair  to provide example variety for state (2) |
| Char. 65 | to invert states (1) “much longer” and (3) “same length” |
| Char. 67 | to add (+) and illustration |
| Char. 68 | to check whether QL |
| Char. 69 | to add (+) and illustration |
| 8.2 | to improve illustrations throughout |
| Ad. 20 | to check to read “broad (low)” and “narrow (high)”  to add illustration for “lanceolate” |
| 9. | to add literature |
| TQ 1 | to add box to species name |
| TQ 4, 5, 6 | to be prepared |

\**Hosta* (Hosta *Tratt.*)

The subgroup discussed document TG/HOSTA(proj.7), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

|  |  |
| --- | --- |
| Cover page | to update proj. number throughout the document to proj.7 |
| Char. 2 | to be indicated as VG/MG/MS |
| Char. 5 | to read: “Petiole: shape in cross section of inner side” |
| Char. 10 | to delete “the” (position of broadest part) and state (1) to read “at middle” |
| Char. 11 | state (8) to read “circular” |
| Char. 12 | to delete example variety for state (3) |
| Char. 16 | state (4) to read “at marginal zone” |
| Chars. 18 to 39 | all leaf characteristics for colors 2 to 5 to read the same wording as for color 1 |
| Chars. 46, 47, 48 | to add (e) |
| Char. 48 | to read “Bract: color of outer side” |
| Chars. 52, 53, 55, 57, 61 | to be indicated as VG/MG/MS |
| Char. 54 | to read “shape in lateral view” |
| Char. 55 | to read “Corolla tube: length” |
| Char. 56 | to read “Corolla tube: color of outer side” |
| Char. 58 | to read “ circular (8)”  to add drawings for states 1 and 8 |
| Char. 60 | to correct spelling of example variety “Fragrant” |
| Char. 62 | to read “circular (8)” |
| Char. 63 | to add (+) and add to Ad. 49, 52, 53, 55, 57, 61 |
| Chars. 65, 68 | to be indicated as VG/MG/MS |
| Char. 71 | to be placed after Char. 67 |
| Table of Chars. | to add more (\*) characteristics |
| 8.1 | update according to model used for describing the Lisbon approach in Heuchera |
| 8.1 (e) | to read: Characteristics of the bract should be observed on the bract of the first flower in the inflorescence. |
| Ad.10 | to delete “(1)” for state 1 and to delete “the” |
| Ad.11 | to delete 3rd column |
| Ad. 12 | to provide a better illustration for state (3) “truncate” (possibly Ad. 11 state (9)) |
| Ad. 15 | to delete “…, but method for the young leaf is identical”  to read “In order to provide an illustration of the recording method, two worked examples are provided below. The first describes a leaf with only one color, the second a leaf with several colors.”  To delete sentence “Section 8.1(b) contains the instructions as to which material should be used for the observations.” |
| Worked Example Two | Char. 24 to read “at centre” |
| Ad. 16, 20, 24, 28, 32 | to add illustration “at margin” to explain partially at margin  state (5) to read “irregular” |
| Ad. 17, 21, 25, 29, 33 | to change illustration for state (3) “spotted”  state (5) to read “marbled (grey green)” |
| Ad. 37 | to read and have same states as Char. 37 |
| Ad. 49, 52, 53, 55, 57, 61 | to improve labeling |
| Ad. 51 | to read:   1. Single: 6 corolla lobes; 2. Semi-double: 7 to 11 corolla lobes 3. Double: 12 or more corolla lobes |
| Ad. 54 | to read “shape in lateral view” |
| Ad. 58, 62 | to check to add a grid around shapes |
| 9. | to read “P.” (with dot)  to read “Hostas” (without apostrophe)  to read “Shadrack, M.” (with dot) |
| TQ 1 | to add a box for “species: please complete” |
| TQ 5.3i, 5.3ii, | to delete “color 1” and replace with “color covering the greatest surface area”  to revise sequence of 5.3, 5.3i, 5.3ii (numbering only) |
| TQ 5.4, 5.4i, 5.4ii | to delete “color 2” and replace with “color covering the next greatest surface area” |
| TQ 6 | to update the example used |

*Lilac* (Syringa *L.*)

The subgroup discussed document TG/LILAC(proj.4), presented by Ms. Cui Hongxia (China) and agreed the following:

|  |  |
| --- | --- |
| Char. 1 | to be deleted |
| Char. 2 | to delete underlined part (to read “Plant: growth habit) |
| Char. 4 | to delete underlined part |
| Char. 6 | to read “one-year-old shoot: color”  to delete (+) and explanation  to be presented in following order “grey brown, light brown, medium brown, red brown” |
| Char. 8 | to be deleted |
| Char. 9 | to read “Only varieties with leaf type: simple:  Leaf: depth of sinus  to add state (1) “absent or very shallow” |
| Char. 10 | to read “only varieties with leaf type: simple: Leaf: number of sinuses”  to have states (1) none; (2) one; (3) two; (4) more than two |
| Char. 11 | to delete underlined part |
| Char. 12 | to delete underlined part  to add explanation “for compound leaves to be observed at terminal leaflet” |
| Char. 19 | to check if to replace “panicles” by “raceme”  to add space between “Anne” and “Tighe”  to add (+) and explanation |
| Char. 27 | to read “medium elliptic (2)” |
| Char. 28 | to read “Edith Braun” |
| Char. 29 | to read “Helene Agathe Keesen” (with spaces) |
| Char. 30 | to delete state (2) and renumber following states |
| Char. 31 | to be deleted |
| Char. 35 | to read “Anther: color” |
| Char. 36 | to read: “Time of beginning of flowering” (to delete “Flower”)  to be indicated as VG/MG |
| Char. 37 | to be deleted |
| 8.1 | to delete the word “All” in (a) and (b) |
| 8.1 (b) | to read “(b) Observations on the inflorescence should be made on inflorescences from the middle to upper part of the canopy when 50% of the inflorescences have open flowers. Observations on the floret should be made on florets from the middle part of panicle. Observations on the corolla lobe of double flowers should be made on the lobes of second whorl from the top of the floret.” |
| Ad. 11 | to replace “normal” by “medium”  to have states “broad ovate (1); medium ovate (2); narrow ovate (3); medium elliptic (4); narrow elliptic (5); obovate (6)” (keep images in same place)  to change illustration for broad ovate |
| Ad. 15 | to read “…before opening of florets.” |
| Ad. 17 | to read “…should be observed from…” |
| Ad. 20 | to delete the explanatory text and keep illustrations only |
| Ad. 27 | to replace “normal” by “medium”  to have states “medium elliptic (1); narrow elliptic (2); obovate (3)” |
| Ad. 32, 33 | to add standard wording for main color according to TGP/14 (with darker color as main color) |
| Ad. 36 | to read “The time of beginning of flowering is when 5% of florets on all plants are open.” |
| 9 | to check literature |
| TQ 1 | to have three boxes: 1. Genus; 2. Botanical name; 3. Common name |
| TQ 5 | RHS Colour Chart characteristic (as in the Table of Chars) for 5.8 (32) (Corolla lobe: main color of inner side**/** RHS Colour Chart (indicate reference number)) and 5.9 (33) (Corolla lobe: secondary color of inner side**/** RHS Colour Chart (indicate reference number)) |
| TQ 5 – 5.8(32) | to correct the notes to read in sequence (1), (2)…  to check spelling and spaces for the example varieties mentioned above |

\**Mandevilla*

The subgroup discussed document TG/MANDE(proj.5), presented by Mr. Henk de Greef (Netherlands) and agreed the following:

|  |  |
| --- | --- |
| Cover Page Name box | to read “x*amabilis*” (to remove space) |
| Alternative names box | to insert alternative names according to GENIE database  to divide box after *Dipladenia sanderi*  to insert space “Backh. f.)Dress” and “&Backh” |
| 1 | to read “…Woodson and *Mandevilla*…” |
| T.O.C. | to check whether sufficient number of (\*) characteristics |
| Char. 3 | to be placed after 5 |
| Char. 4 | to clarify young stem |
| Char. 5 | to clarify young stem |
| Char. 9 | to indicate as QN not PQ |
| Char. 14 | to read: Leaf blade: shape |
| Char. 16 | to add example varieties |
| Char. 19 | to add (+); to add state (1) “none” and adjust other notes accordingly |
| Char. 21 | to check spelling of example variety “Coton Candy” |
| Char. 25 | to add (+) and illustration to clarify the axis of observation  to have notes (1), (2), (3) |
| Chars. 34, 35 | to check whether to read “main color…” |
| Chars. 38, 40 | to remove underline |
| Char. 41 | to improve illustration |
| Chars. 42, 43 | to delete underline of “outer” |
| Chars. 44, 45 | to delete underline of “inner” |
| Char. 48 | to add (\*) |
| Char. 50 | to delete states 1 and 9 |
| 8.1 | 8.1 (a) to become a general note for all characteristics  to add explanation on time of observation for Chars. 4 and 5 |
| Ad. 18, 19, 48, 49 | to read “In cases where the areas are too similar to reliably…” (as TGP/14  to become a note in 8. 1 and delete Ad. 18, 19, 48, 49 |
| Ad. 31 | to indicate position of broadest part |
| Ad. 32 | to add illustration |
| Ad. 41 | to be placed after add 36 |
| Ad. 47 | to indicate apex in state (2) |
| 9 | to add literature details |
| TQ 1 | to have one set of boxes for each of the two species (Botanical name; common name) |
| TQ 5.1 | to read “Plant: number of climbing tendrils” |
| TQ 5.3 (48) | to add state “yellow” after “white” |
| 7.3.1 | to delete “(c) cut flower” |

*Regal Pelargonium (Revision)*

The subgroup discussed document TG/109/4(proj.1), presented by Mrs. Andrea Menne (Germany) and agreed the following:

|  |  |
| --- | --- |
| Cover page | to check botanical name of the hybrid (to remove space between “x” and the specific name) |
| 1 | to replace “between” by “including”  to check whether GN3 applies |
| 3.3.1 | to delete second sentence |
| 4.2.2 | to read “15 plants” |
| Chars. 1, 3, 4, 11, 12 | to check to add example varieties |
| Char. 9 | to add (+) and explanation on how to observe in case of variegated leaves |
| Char. 21 | to check if to add (+) and explanation |
| 8.1 | to delete “All” in 8.1, 8.1 (a) and (b)  8.1 to read “Observations should be made at the time of full flowering.” |
| Ad. 3, 4, 5 | to add another example such as state (9) in Ad. |
| Ad. 6 | to add “the deepest sinus is observed” |
| Ad. 8 | to add explanation on which part to observe green color on variegated leaves |
| Ad. 16, 17, 18 | to adjust arrows |
| Ad.19 | to read “size of central marking” and to place “marking” between arrows |
| Ad. 20 | to check to add more illustrations |
| Ad. 25 | to read “size of central marking” |
| 9. | to check literature format |
| TQ 6 | to read “short” instead of “small” |

*Salvia* (Salvia *L.*)

The subgroup discussed document TG/SALVI(proj.1), presented by Mr. Tetsuya Takahashi (Japan) and agreed the following:

|  |  |
| --- | --- |
| Cover page | to have common English name: Salvia |
| 1 | to specify the scope of the Test Guidelines by determining the species covered |
| 2.3 | to replace “10 rooted cuttings” by “10 plants” |
| 4.2.3, 4.2.4 | to check whether self-pollinated and/or cross-pollinated varieties |
| Table of Chars. | to add example varieties |
| Char. 2 | to add (\*) |
| Char.10 | to read “low” and “high” instead of “small” and “large” |
| Char.12 | to check whether to have separate characteristics for shape of apex and tip |
| Char.14 | to add (+) and explanation of main color  to read for state (2): medium green |
| Char. 16 | to check whether to have separate characteristics for distribution and pattern  state (3) to read “spots” and to check term for state (4) “splashed” |
| Char. 18 | to add state (5) very dense |
| Char. 26 | to add (+) and illustration |
| Char. 28 | to check whether to reduce number of states or state (1) to read: absent or very weak |
| Char. 30 | to specify whether “Floret bract” or “Peduncle bract” |
| Chars.32, 37, 42 | to add (+) and explanation of main color |
| Char. 33 | to read: Calyx: pubescence on outer side (check for consistency throughout T.o.C. |
| Chars. 37 to 45 | to check whether to use “lip” or “lobe” |
| Chars. 38, 43 | to add (+) and explanation of secondary color |
| Char. 41 | to check whether stable characteristic |
| Char. 44 | to read: at base (1); at margin (4) |
| 8.1 | to delete “all”  to add an additional sentence to (a) to read: Observations of the leaf blade should be made on the upper side. |
| Ad.1 | to add illustrations for states 1, 3 and 4 |
| Ad. 2 | to read: Plant height should be observed from the surface of the growing medium to the top of the plant, including inflorescence |
| Ad.16 | to add illustrations |
| Ad.19 | to add illustrations for states 2, 3, 4 and 5 |
| Ad.21 | to add illustrations for state 7 |
| Ad.22 | to add illustrations for state 5 |
| Ad.25 | to add illustrations for states 2, 4 and 5 |
| Ad.27 | to remove visible name labels from existing illustrations  to add illustrations for states 3, 4 and 5 |
| Ad. 41 | to verify blue line indications of where to observe |
| Ad.45 | to add illustrations for states 4 and 5 |
| TQ 1 | to insert “[to complete]”  1.2 to read: Salvia |

*Zinnia* (Zinnia *L.*)

The subgroup discussed document TG/ZINNIA(proj.3), presented by Mrs. María Teresa Colinas Léon (Mexico) and agreed the following:

|  |  |
| --- | --- |
| 1. | to read: These Test Guidelines apply to all varieties of *Zinnia* L. |
| 4.1.4 | to read:  Unless otherwise indicated, for the purposes of distinctness for F1 hybrids, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test, disregarding any off-type plants.  Unless otherwise indicated, for the purposes of distinctness for open pollinated varieties, all observations on single plants should be made on 40 plants or parts taken from each of 40 plants and any other observations made on all plants in the test, disregarding any off-type plants. |
| 4.2.2 | to read: For open pollinated varieties, the assessment of uniformity should be according to the recommendations for cross-pollinated and hybrid varieties as appropriate, in the General Introduction. |
| 4.2.3 | to read: For the assessment of uniformity of F1 hybrids, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 10 plants, 1 off-type is allowed. |
| T.o.C. | to remove reference to example variety series: “Profusion”; “Sahara”; “Dreamland” and replace by single example varieties |
| Char.2 | to be indicated as VG |
| Char. 3 | to have states: absent or weak (1); weak (2); medium (3); strong (4); very strong (5) |
| Char. 6 | to be indicated as QN and to add (a)  to have states: towards base (1); at middle (2); towards apex (3)  to check to be placed after Char. 9 |
| Chars. 7, 8 | to add example varieties  to add (a) |
| Char. 10, 11, 12, 13, | to add (a) |
| Char.12 | to read: Leaf: intensity of green color  to have notes: very light (1); light (2); medium (3); dark (4); very dark (5) |
| Char. 15 | to replace example variety for state (2) with “Yellow Flame” |
| Char. 18 | to add (+) and to provide illustration  to be indicated as VG/MS |
| Chars. 19, 20, 21 | to be indicated as VG/MS and to add (c)  to add example varieties |
| New Chars. | to insert 3 New Chars. on Ray floret (see TG/22/6 Dahlia – Chars. 38, 39, 40) |
| Char. 22 | to add (d) and review the names of the states (see TG for Chrysanthemum,  Char. 48) |
| Char. 23 | to add (d) |
| Chars. 24, 25 | to add (d) and (e) |
| Char. 25 | to read: Ray floret: secondary color of inner side (if present) |
| Char. 24, 25, 27, 29 | to correct translation standard wording for the “RHS Colour Chart” in Spanish |
| Char. 26 | to read “Ray floret: distribution of secondary color of inner side” with states basal part (1); distal part (2); along midrib (3); throughout (4) |
| New Char. | to read “Ray floret: pattern of secondary color of inner side” with states: solid (1); blotches (2); stripes (3) |
| Char. 28 | to delete |
| Char. 29 | to read: Flower head: color of disc (if present) |
| 8.1 | to replace “all” by “Ad. 15” in (c)  to renumber accordingly and update T.o.C  to update text for (d) according to TGP/14 |
| Ad. 1 | to replace illustration of state (3) |
| Ad. 2 | to update according to changes in T.o.C. |
| Ad.9 | to invert illustrations of states (3) and (7) |
| Ad. 15 | to add explanation to read: Single flower head: has only one row of ray florets. Semi double flower head: has more than one rows of ray florets and a visible flower head disc. Double flower head: has no flower head disc. |
| TQ 1 | to insert box for species |
| TQ 1.1 | text in box to read: *Zinnia* L. |
| TQ 4 | to check whether to use example 1 or 2 from the TG Template |
| TQ 4.2.1 to 4.2.3 | to delete series for vegetative propagation |
| TQ 5.4 | to add Char. 25 and update as in the Table of Characteristics |
| TQ 6 | to add an example |

## Recommendations on draft Test Guidelines

1. *Test Guidelines to be put forward for adoption by the Technical Committee*

The TWO agreed that the following draft Test Guidelines should be submitted to the TC for adoption at its fiftieth session, to be held in Geneva in March 2014, on the basis of the following documents and the comments in this report:

|  |  |
| --- | --- |
| Subject | Relevant document |
| China Aster (*Callistephus chinensis* (L.) Nees) | TG/CALSP(proj.2) |
| Hosta (*Hosta* Tratt.) | TG/HOSTA(proj.7) |
| Lilac (*Syringa* L.) | TG/LILAC(proj.4) |
| Mandevilla | TG/MANDE(proj.5) |

*(b) Test Guidelines to be discussed at the forty‑seventh session*

The TWO agreed to discuss the following draft Test Guidelines at its forty‑seventh session:

|  |
| --- |
| Abelia (*Abelia* R.Br.) |
| *Aglaonema* Schott. |
| Aloe |
| *Campanula* L. |
| *Calibrachoa* L. (Revision) |
| Cordyline (*Cordyline* Comm. Ex. Juss.) |
| Cosmos (*Cosmos* Cav.) |
| Carnation (*Dianthus* L.) (Revision) |
| Freesia (Revision) |
| Grevillea (*Grevillea* R. Br. Corr. R. Br.) |
| Petunia(Revision) |
| *Plectranthus* L’Hér. |
| Regal Pelargonium (Revision) |
| Salvia (*Salvia* L.) |
| *Zinnia* L. |

The leading experts, interested experts and timetables for the development of the Test Guidelines are set out in Annex III.

## Guidance for drafters of Test Guidelines

The TWO considered document TWO/46/24.

The TWO noted the information provided in the TG Drafters’ webpage of the UPOV website, including the Revised Practical Guide for Drafters (Leading Experts) of UPOV Test Guidelines.

The TWO noted the difficulties experienced in using the TG Template available on UPOV website and proposed to include a demonstration of its use during the Preparatory Workshop. The TWO requested to have a short document with the standard wording applicable for the types of Test Guidelines discussed in each TWP.

The TWO noted the plan for the development of a prototype web-based TG Template for testing by interested experts by the end of 2013. It was noted that the template would provide sufficient flexibility for drafters of Test Guidelines to introduce proposals that were not covered by existing standard wording and would retain flexibility in the structure for further development of Test Guidelines by UPOV members.

The TWO noted that a file “Summary information on quantity of plant material required on adopted Test Guidelines” was available on the TG Drafters’ webpage of the UPOV website.

## Information and databases (continued)

### (b) Variety description databases

The TWO considered documents TWO/46/6 and TWO/46/25.

The TWO noted the developments on variety description databases.

The TWO requested an expert from Australia to lead an initial study on the viability of the development of a database for a crop of interest to the TWO, in a similar way to the database being developed for Pea, which would be presented at the forty‑seventh session of the TWO. The TWO recognized the need to clearly define the scope and objectives in developing such a database. Experts from the European Union and the Netherlands would participate in the initial study.

The TWO noted the report on the Pea Database study as presented in document TWO/46/25.

The TWO agreed that the approach for managing variety collections as used in the Pea database provided a useful tool for the development of Test Guidelines, selection of grouping characteristics and identifying varieties that would be used in the DUS trials.

The TWO noted the approach for managing variety collections as presented in the Annex to document TWO/46/25.

### (c) Exchangeable software

The TWO considered document TWO/46/7.

The TWO noted that the TC had concluded that the title of document UPOV/INF/16 “Exchangeable Software” and Section “1. Requirements for exchangeable software” should remain unchanged, but that it would be useful to develop a separate information document that would allow members of the Union to provide information on the use of non-customized software and equipment that was used by members of the Union.

The TWO noted that the TC had:

(a) agreed with the inclusion of “Information System (IS) used for Test and Protection of Plant Varieties in the Russian Federation” and the AIM software from France in document UPOV/INF/16;

(b) requested the Office of the Union to investigate the possibility of the translation of “Information System (IS) used for Test and Protection of Plant Varieties in the Russian Federation” into English on the basis that the Russian Federation would verify the translation provided by the Office of the Union; and

(c) requested the Office of the Union to translate the AIM software to English on the basis that France would verify the translation provided by the Office of the Union.

The TWO noted that the TC had agreed with the inclusion of the information regarding the use of software provided by the Czech Republic, Estonia and Vietnam, in reply to Circular E-13/023, in a revision of document UPOV/INF/16 by the Council at its forty-seventh session, to be held in Geneva on October 24, 2013.

The TWO noted that the TWC would be invited to consider the software proposed by Mexico for inclusion in document UPOV/INF/6 “Exchangeable software”, as presented in Annex III to document TWO/46/7, at its thirty‑first session, to be held in Seoul, from June 4 to 7, 2013.

*(d) Electronic application systems*

The TWO considered document TWO/46/8.

The TWO noted the developments concerning a prototype electronic form.

Experiences with new types and species

An expert from Australia gave a presentation on a new inter-generic hybrid variety between the Australian species *Disphyma crassifolium* ssp. *clavellatum* and the African species *Glottiphyllum longum*. A copy of the presentation will be included in document TWO/46/28.

Date and Place of the Next Session

At the invitation of Kenya, the TWO agreed to hold its forty-seventh session in Nairobi, Kenya, from May 19 to 23, 2014, with the preparatory workshop on May 18, 2014.

Chairperson

The TWO agreed to propose to the TC that it recommend to the Council to elect Mr. Kenji Numaguchi (Japan) as the next chairperson of the TWO.

## Future program

The TWO proposed to discuss the following items at its next session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection
4. Reports from members and observers
5. Reports on developments within UPOV (oral report by the Office of the Union)
6. Molecular Techniques (document to be prepared by the Office of the Union)
7. TGP documents
8. Variety denominations (document to be prepared by the Office of the Union)
9. Information and databases

(a) UPOV information databases (document to be prepared by the Office of the Union)

(b) Variety description databases (document to be prepared by the Office of the Union and documents invited)

(c) Exchangeable software (documents to be prepared by the Office of the Union)

(d) Electronic application systems (document to be prepared by the Office of the Union)

1. Uniformity assessment
2. Experience with new types and species
3. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
4. Discussion on draft Test Guidelines (Subgroups)
5. Recommendations on draft Test Guidelines
6. Guidance for drafters of Test Guidelines
7. Date and place of the next session
8. Future program
9. Report on the session (if time permits)
10. Closing of the session

## Visit

On the afternoon of April 24, the TWO visited the facilities of Grandiflora Nurseries, Australia’s largest cut rose company and a breeder of new rose varieties. Mr. Christopher Prescott, a consultant qualified person (QP), accredited by the PBR office in Australia, explained his role in operating a centralized testing center for roses. He also explained the rose breeding activities being undertaken at Grandiflora Nurseries. The TWO then visited the Royal Botanic Gardens at Cranbourne where it had the opportunity to view more than 1,700 varieties of Australian native plant species on display. The TWO also visited the facilities at Ball Horticultural Company Australia (Ball Australia), a leading horticultural company with a range of ornamental and vegetable varieties. Mr. Mark Lunghusen, a consultant QP accredited by the PBR office in Australia, explained the process for undertaking DUS examination of plant varieties at Ball Australia. In particular, he explained how overseas DUS test reports are used to verify the expression of characteristics under Australian conditions.

The TWO adopted this report at the close of

the session.

[Annexes follow]

Annexes I and II only available in the pdf version of the document.

[Annex III follows]

LIST OF LEADING EXPERTS

**DRAFT TEST GUIDELINES TO BE SUBMITTED  
TO THE TECHNICAL COMMITTEE IN 2014**

All requested information to be submitted to the Office of the Union

**by June 7, 2013**

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Basic Document | Leading expert(s) | Interested experts (States/Organizations)[[2]](#footnote-3) |
| China Aster (*Callistephus chinensis* (L.) Nees) | TG/CALSP(proj.2) | Mr. Kenichi Atsuta (JP) | CN, DE, GB, MX, Office |
| *\**Hosta (*Hosta* Tratt*.*) | TG/HOSTA(proj.7) | Mr. Henk de Greef (NL) | CN, GB, HU, JP, KR, NZ, QZ, UA, ZA, Office |
| *\**Lilac (*Syringa* L.) | TG/LILAC(proj.4) | Dr. Cui Hongxia (Ms.) (CN) | CA, DE, FR, GB, JP, KR, PL, QZ, UA, Office |
| *\**Mandevilla (*Mandevilla sanderi* (Hemsl.) Woodson; *Mandevilla* ×*amabilis* (Backh. & Backh. f.) Dress) | TG/MANDE(proj.5) | Mr. Henk de Greef (NL) | AU, IL, JP, KE, NZ, QZ, ZA, Office |

**DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWO/47**

(\* indicates possible final draft Test Guidelines)

**New draft to be submitted to the Office of the Union**

**before April 5, 2014**

**(Guideline date for Subgroup draft to be circulated by Leading Expert: February 8, 2014**

**Guideline date for comments to Leading Expert by Subgroup: March 8, 2014**

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Basic Document | Leading expert(s) | Interested experts (States/Organizations)[[3]](#footnote-4) |
| Abelia (*Abelia* R. BR.) | TG/ABELI(proj.1) Corr. | Mrs. Françoise Jourdan (FR) | GB, JP,KR, NZ, QZ, Office |
| Aglaonema (*Aglaonema* Schott.) | TG/AGLAO(proj.3) | Mr. Kenji Numaguchi (JP) | AU, KR, NL, NZ, QZ, ZA, Office |
| \*Aloe (*Aloe* L.) | TG/ALOE(proj.2) | Mr. Adriaan de Villiers (ZA) | AU, CN, DE, KE, MX, NL, Office |
| *Calibrachoa* L. Llave & Lex. (Revision) | TG/207/1 | Ms. Andrea Menne (DE) | AU, CA, JP, KR, MX, NZ, QZ, ZA, Office |
| \*Campanula (*Campanula* L.) | TG/CAMPA(proj.3) | Miss Elizabeth Scott (GB) | CA, CN, DK, JP, NL, NZ, QZ, ZA, Office |
| \*Carnation (*Dianthus* L.) (Revision) | TG/25/9(proj.6) | Mr. Henk de Greef (NL) | BG, CO, GB, IL, JP, KE, KR, MX, NZ, QZ, ZA, Office |
| Cordyline (*Cordyline* Comm. ex Juss.) | TG/CORDY(proj.1) | Mr. Chris Barnaby (NZ) | AU, GB, KR, NL, QZ, ZA, Office |
| *\**Cosmos (*Cosmos* Cav.) | TG/COSMOS(proj.5) | Mr. Takayuki Mikuni (JP) | GB, HU, KR, MX, NZ, RO, Office |
| *Freesia* Eckl. ex Klatt (Revision) | TG/27/6 | Mr. Henk de Greef (NL) | JP, KR, QZ, ZA, Office |
| Grevillea (*Grevillea* R. Br. corr. R. Br.) | TG/GREVI(proj.1) | Mr. Nik Hulse (AU) | GB, NZ, MX, Office |
| *Petunia* Juss.(Revision) | TG/212/1 Corr. | Ms. Andrea Menne (DE) | AU, CA, CN, JP, KR, MX, NZ, QZ, ZA, Office |
| *Plectranthus* L’Hér. | (new) | Mr. Adriaan de Villiers (ZA) | AU, DE, QZ, NL, Office |
| \*Regal Pelargonium (*Pelargonium grandiflorum* hort. non  Willd.) (Revision) | TG/109/4(proj.1) | Ms. Andrea Menne (DE) | AU, CA, JP, KR, MX, QZ, ZA, Office |
| Salvia (*Salvia* L.) | TG/SALVI(proj.1) | Mr. Tetsuya Takahashi (JP) | AU, CA, CN, FR, GB, IL, KR, NZ, MX, QZ, ZA, Office |
| Zinnia (*Zinnia* L.) | TG/ZINNIA(proj.3) | Mr. Jose Mejía Muñoz (MX) | CN, GB, IL, JP, KR, Office |

[End of Annex III and of document]

1. \* Indicates possible final draft Test Guidelines [↑](#footnote-ref-2)
2. for name of experts, see List of Participants [↑](#footnote-ref-3)
3. for name of experts, see List of Participants [↑](#footnote-ref-4)