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# INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

## TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES

## Forty-Seventh Session
## Naivasha, Kenya, May 19 to 23, 2014

REPORT

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

*Disclaimer: this document does not represent UPOV policies or guidance*

1. The Technical Working Party for Ornamental Plants and Forest Trees (TWO) held its forty-seventh session in Naivasha, Kenya, from May 19 to 23, 2014. The list of participants is reproduced in Annex I to this report.

2. The TWO was welcomed by Mr. James Onsando, Managing Director, Kenya Plant Health Inspectorate Service (KEPHIS), who made a presentation on "Status of plant variety protection in Kenya", a copy of which is presented in Annex II to this report. Mrs. Jane Ngige, Secretary-General, Kenya Flower Council, also welcomed the participants and made a presentation on "Kenya Flower Council", a copy of which is presented in Annex III to this report.

3. The session was opened by Mr. Nik Hulse (Australia), Chairman of the TWO, who welcomed the participants, in particular new participants to the TWO, and thanked Kenya for hosting the TWO session.

4. The TWO expressed its condolences for the sad loss of Mr. François Boulineau, Chairman of the Technical Working Party for Vegetables (TWV), who had died on December 23, 2013. It was recalled that, in addition to being Chairman of the TWV, Mr. Boulineau had brought great experience and expert knowledge to UPOV's technical work and was a leading expert for a number of important UPOV Test Guidelines.

Adoption of the Agenda

5. The TWO adopted the agenda as reproduced in document TWO/47/1.

Short Reports on Developments in Plant Variety Protection

*(a) Reports on developments in plant variety protection from members and observers*

6. The TWO noted the information on developments in plant variety protection from members and observers provided in document TWO/47/27 Prov. The TWO noted that reports submitted to the Office of the Union after May 5, 2014, would be included in the final version of document TWO/47/27.

*(b) Reports on developments within UPOV*

7. 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/47/24. The TWO noted that the designated contact

person to the Technical Committee had been copied in the Circular requesting information for document C/48/5 “Cooperation in examination”.

Improving the effectiveness of the Technical Committee, Technical Working Parties and Preparatory Workshops

8. The TWO considered document TWO/47/11.

9. The TWO noted the measures implemented at the TWPs sessions in 2013, for improving the effectiveness of the TWPs, as set out in document TWO/47/11, paragraph 10.

10. The TWO noted the results of the surveys in 2013 presented in document TWO/47/11, paragraphs 11 and 12, and Annex I.

11. The TWO noted the survey of TWP participants in 2014, as set out in Annex II to document TWO/47/11.

12. The TWO considered the proposals concerning possible means of improving the effectiveness of the TWPs and the Preparatory Workshops, and made the following comments:

| **Proposal** | | **Comment** |
|---|---|---|
| Technical Working Parties | | |
| General | | |
| (a) | conduct a survey of TWP participants in 2014 in order to identify further areas for improvement and to obtain feedback on the effectiveness of measures already taken | • to have the survey available during the week of the TWP meeting<br>• to allow time for discussion on the survey |
| (b) | review the TWP invitations in order to ensure that information is disseminated to all appropriate persons | • to periodically inform the UPOV representatives on the list of designated persons and check for updates<br>• to make a list of designated persons accessible on the UPOV website |
| (c) | in order to encourage greater participation by all participants in the TWP sessions, to request participants at the beginning of the session to introduce themselves and to briefly (in 30 seconds) report the most important issue they faced at that time. Matters of broad interest could then be considered for further discussion at an appropriate time | • to indicate in the agenda issues of particular relevance for discussion during each TWP<br>• issues of particular relevance for discussion should be informed in advance along with first invitation to TWP<br>• where possible/appropriate combine discussion on relevant issues with technical visit<br>• to organize workshops on issues of particular relevance for TWP<br>• to balance the number of Test Guidelines discussed to allow time for discussion of relevant issues<br>• where possible the work program timings should allow opportunity for informal inter-sessional discussions of participants (e.g. by allowing a longer period around lunch) |
| (d) | organize presentations by experts of members of the Union on topical and relevant matters | • the format is useful for providing concrete examples<br>• invitations to make presentations should be sent in sufficient time for the presenters to prepare<br>• useful to engage discussions with participants |
| (e) | request hosts to provide:<br>• name badges for all participants (including local participants),<br>• a large poster board with the participant names and photographs and a space for each participant to indicate their area of particular interest (specifically including local participants),<br>• a notice board for host announcements (e.g. visits),<br>• 2 projector screens in large rooms (at opposite ends of room) | • general support for the proposals listed<br>• guidance for host needs to be updated to provide more details/examples on suitable arrangements.<br>• to specify that poster board to display information could be simple. The participants and UPOV could provide the information to be placed on the board at the beginning and during the meeting as required. |

| Proposal | | Comment |
|---|---|---|
| TWP documents | | |
| (f) | provide a summary of the purpose and proposed decisions at the beginning of TWP documents | • summary is useful and should be used<br>• should clarify the next steps on discussions of the document |
| (g) | post documents sufficiently in advance of the meetings | • first TWP should take place allowing sufficient time after the TC session |
| (h) | continue to include decision paragraphs in TWP documents | • decision paragraphs are useful and should continue to be used |
| (i) | minimize the time for presentation of documents, particularly where presented for information only | • all documents should continue to be presented to all TWPs<br>• level of detail on presentation of documents should be according to relevance to TWP and in agreement with relevant Chairperson |
| Test guidelines | | |
| (j) | request TWP designated persons to make proposals for new or revised Test Guidelines in advance of the TWP session | • request for proposals in advance should be implemented |
| (k) | circulate the proposed schedule of TG to be discussed during the session to TWP participants one week before the TWP session | • the draft program of work for the week should be circulated in advance, including discussion on TGP documents, date of technical visit and reception<br>• to include disclaimer/clarification that the program will be reviewed at the beginning of the week and may change |
| (l) | improve preparation of Test Guidelines and presentation of Test Guidelines at TWPs by the Leading expert by:<br>• training (e.g. electronic training workshops, including the use of the Web-based TG template, and guidance on the presentation of Test Guidelines at the sessions),<br>• providing UPOV comments in advance | • e-workshops should be recorded and made available on the UPOV website<br>• e-workshops should be repeated during the preparatory workshops<br>• new web based TG template will reduce number of editorial comments by the Office of the Union |
| TGP documents | | |
| (m) | request participants to provide their comments on TGP documents in advance of the TWP session, according to a specified date | • there was no consensus from the TWO<br>• could increase time necessary to introduce the comments received along with the introduction of the document<br>• could be useful for some particular issues<br>• should not become mandatory for all topics<br>• could lead to longer documents<br>• non-systematized information may not be useful<br>• a blog could be established (perhaps on the UPOV website) for discussion on particular issues |
| (n) | organize a separate, annual meeting of a working group to discuss TGP documents in the week before the TC sessions in Geneva. The meetings would be open to all TC and TWP designated persons and consideration would be given to the possibility to view the meeting electronically | • the TWO did not support a separate meeting to discuss TGP documents<br>• reduces the number of participating experts in discussions<br>• discussion on TGP documents is important for capacity building in Technical Working Parties<br>• agenda of TWPs should be balanced to allow time for discussion of relevant TGP documents |
| (o) | in conjunction with this approach, to report on significant developments at TWPs, without detailed discussion of individual TGP documents | • approach not supported |
| Technical visit | | |
| (p) | conduct a survey of TWP participants of their requirements for technical visits | • to provide guidance for hosts on objectives of technical visit<br>• flexibility is necessary to adjust to local conditions<br>• careful consideration on logistics for transportation of participants |

| Proposal | | Comment |
|---|---|---|
| Preparatory Workshops | | |
| (a) | if the length of time spent on TGP and information documents is reduced, to hold the preparatory workshops on Monday in order to encourage all TWP participants to attend the Preparatory Workshop | • the TWO considered such an approach would not be effective for improving attendance at the preparatory workshop<br>• no significant cost reduction associated<br>• available time during the week could be better used for discussion of matters of particular relevance to the TWP |
| (b) | to use more, shorter presentations and use experts from members of the Union as presenters | • experts could be used to present real examples during preparatory workshop<br>• could lead to reduction of UPOV content presented<br>• to request participants to express main interests for clarification during the preparatory workshop<br>• existing UPOV presentation materials could be used by presenters and tailored to suit their style<br>• additional benefit that presenters would become more familiar with UPOV presentation and materials<br>• should ensure that presentations by experts remain consistent with UPOV guidance |
| (c) | to continually renew exercises for existing topics | • exercises should use examples from Test Guidelines relevant for each TWP<br>• to develop exercises on number of notes observable and on selection of characteristics for international harmonization (asterisk) |
| (d) | to organize small groups of participants with different levels of experience for the group exercises | • better interaction within participants<br>• groups should have participants with different levels of experience<br>• to inform on the timetable for circulation of draft TGs and posting on the web (document TGP/7 Section 2.2.5.3) |

Molecular Techniques

13. The TWO noted the information provided in document TWO/47/2.

14. The TWO noted the report on developments concerning the:

(a) use of biochemical and molecular markers in the examination of Distinctness, Uniformity and Stability (DUS);

(b) Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT); and

(c) presentation of 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.

15. The TWO agreed that it was important to bear in mind that not all DUS examination offices had the facilities and resources to use molecular techniques. It recalled that the situation in UPOV with regard to molecular techniques, as set out in document TGP/15 “Guidance on the Use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)”, did not require the examination offices to use such techniques in order to be able to conduct a DUS examination, but would allow them to use the techniques in specific ways if that was considered appropriate for their circumstances.

Variety Denominations

16. The TWO considered document TWO/47/4.

*Possible revision of document UPOV/INF/12 “Explanatory Notes on Variety Denominations under the UPOV Convention”*

17. The TWO noted the plans to revise document UPOV/INF/12 “Explanatory Notes on Variety Denominations under the UPOV Convention”.

*Possible development of a UPOV similarity search tool for variety denomination purposes*

18. The TWO noted the report concerning the possible development of a UPOV similarity search tool for variety denomination purposes and that the first meeting of the working group would be arranged for June/July, 2014. The TWO noted that participation by electronic means for those interested experts that could not attend the meeting of the working group in Geneva was anticipated.

*Developments concerning potential areas for cooperation with the IUBS Commission and the ISHS Commission*

19. The TWO noted the developments concerning potential areas for cooperation between the International Commission for the Nomenclature of Cultivated Plants of the International Union for Biological Sciences (IUBS Commission), the International Society for Horticultural Science Commission for Nomenclature and Cultivar Registration (ISHS Commission) and UPOV, as set out in document TWO/47/4.

Information and databases

*(a) UPOV information databases*

20. The TWO considered document TWO/47/5.

*GENIE Database*

21. The TWO noted the plan to provide information for type of crop for each UPOV code in the GENIE database, as set out in document TWO/47/5, paragraph 8.

22. The TWO agreed to request that a circular be issued requesting the TWPs to check the TWP allocations by correspondence by the end of 2014.

*UPOV code system*

23. The TWO agreed to check the new UPOV codes and new information added for existing UPOV codes, which were provided in Annex III to document TWO/47/5 and agreed to submit any comments to the Office of the Union by July 31, 2014. The TWO agreed to request that a circular should also be sent requesting this checking.

*PLUTO Database*

24. The TWO noted the developments concerning the program for improvements to the Plant Variety Database, as reported in document TWO/47/5, paragraphs 17 to 34.

*(d) Electronic application systems*

25. The TWO considered document TWC/47/8.

26. The TWO noted the developments concerning the development of a prototype electronic form as set out in document TWC/47/8.

27. The TWO noted the results of the survey of members of the Union on their use of databases for plant variety protection purposes and also on their use of electronic application systems, as presented in Annex II to document TWC/47/8.

TGP Documents

28. The TWO considered document TWO/47/3.

*Matters for adoption by the Council in 2014*

29. The TWO noted the revisions to documents TGP/0, TGP/2, TGP/5, TGP/7 and TGP/8 to be put forward for adoption by the Council at its forty-eighth ordinary session, as set out in document TWO/47/3, paragraphs 5 to 21.

*Program for the development of TGP documents*

30. The TWO noted the program for the development of TGP documents, as set out in document TWO/47/3, Annex II.

31. The TWO considered the TGP documents below on the basis of document TWO/47/3 "TGP documents" and other documents, as indicated.

Revision of Document TGP/7: Plant Material Submitted for Examination

32. The TWO considered document TWO/47/12.

33. The TWO received presentations by the experts from the European Union and the Netherlands on experiences with regard to plant material submitted for examination, and the solutions that have been developed to address problems. It noted that a copy of the presentations would be provided as an addendum to document TWO/47/12.

34. The TWO noted that plant material of vegetatively propagated varieties submitted for examination could be adversely affected by factors such as: transportation handling; inappropriate use of chemicals; different methods of micro-propagation; adverse effects of tissue culture, etc., resulting in variability within the material that could present problems for the examination of uniformity. The TWO observed that such problems would normally appear during the establishment phase of the variety and might, as appropriate, require a new submission of material, testing for an additional growing cycle, or rejection of the application. It clarified that such problems, which arose prior to receipt of material by the examining authority, needed to be addressed by the breeder. The TWO agreed that such problems only concerned a small proportion of plant material received for examination.

35. The TWO agreed that authorities in charge of receiving plant material for examination should provide guidance on the requirements of material submitted such as quality and age.

Revision of Document TGP/7: Coverage of the Test Guidelines

36. The TWO considered document TWO/47/13 and agreed that Approach 3 "Specify existing type of propagation and anticipate future developments" was the most appropriate guidance for Test Guidelines that are developed on the basis of varieties with one type of propagation when varieties may be developed in the future with other types of propagation. The TWO, therefore, agreed that ASW 8 should be amended to read as follows:

"ASW 8 (TG Template: Chapter 4.2) – Uniformity assessment

*(a) "Cross-pollinated varieties*

*(i) "Test Guidelines covering only cross-pollinated varieties*

"'The assessment of uniformity should be according to the recommendations for cross-pollinated varieties in the General Introduction.'

"These Test Guidelines have been developed for the examination of cross-pollinated varieties. For varieties with other types of propagation the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species", Section 4.5: "Testing Uniformity" should be followed."

[…]

*"(c) Uniformity assessment by off-types (all characteristics observed on the same sample size)*

~~*(i) Test Guidelines covering only varieties with uniformity assessed by off-types*~~

~~"For the assessment of uniformity, a population standard of { x }% and an acceptance probability of at least { y } % should be applied. In the case of a sample size of { a } plants, [{ b } off-types are] / [1 off-type is] allowed."~~

~~*(ii) Test Guidelines covering varieties with uniformity assessed by off-types and other types of varieties*~~

"'For the assessment of uniformity of [self-pollinated] [vegetatively propagated] [seed-propagated] varieties, a population standard of { x }% and an acceptance probability of at least { y } % should be applied. In the case of a sample size of { a } plants, [{ b } off-types are] / [1 off-type is] allowed.'

"These Test Guidelines have been developed for the examination of [*type of propagation*] varieties. For varieties with other types of propagation the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species", Section 4.5: "Testing Uniformity" should be followed."

Revision of Document TGP/7: Drafter's Kit for Test Guidelines

37. The TWO considered document TWO/47/14.

38. The TWO noted the plans for a revision of document TGP/7 and the TG Drafter's webpage for consistency with the introduction of the web-based TG Template in 2014, as set out in document TWO/47/14, paragraphs 6 to 8.

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

39. The TWO considered document TWO/47/15.

40. The TWO noted that the TWF had requested an expert from New Zealand to report at its session in 2014, on the previous work done on harmonized variety description for apple for an agreed set of varieties, as set out in document TWO/47/15, paragraph 18.

41. The TWO agreed that the draft guidance in the Annex to document TWO/47/15 should continue to be developed for inclusion in a future revision of document TGP/8 on minimizing the variation due to different observers, including guidance on PQ and QN/MG characteristics, in conjunction with the points raised by the expert from Australia in document TWO/47/15, paragraph 21. The TWO agreed that the document should focus on variation between observers at the authority level and not on minimizing observer variation between authorities.

Revision of Document TGP/8: Part II: Selected Techniques Used in DUS Examination, Section 3: Method of Calculation of COYU

42. The TWO noted the developments in document TWO/47/16 concerning the method of calculation of COYU, including the development of a demonstration module in DUST and the practical exercise that would be conducted using real data to compare decisions made using the current and the proposed improved method.

Revision of Document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section: Examining DUS in Bulk Samples

43. The TWO considered in document TWO/47/17.

44. The TWO considered the example of a bulk characteristic from the Netherlands and agreed that the scale used should have non-overlapping notes (0-5; ~~5~~6-10; ~~10~~11-15; …)

45. The TWO noted the information that "[…] *the results per variety are stable over the years with only 3 plants per variety. This is an indication that the characteristic is uniform between plants within the variety*. […]". The TWO agreed that the usual approach was to confirm uniformity prior to the establishment of stability and that care would be needed on the examination of stability allowing for the establishment of uniformity of a variety for a given characteristic.

46. The TWO agreed that examples of other characteristics examined on the basis of bulk samples could be considered for the development of guidance.

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

47. The TWO considered in document TWO/47/18.

48. The TWO noted that an expert from New Zealand had been invited to make a presentation at the forty-fifth session of the TWF, on the project for "apple reference varieties" that began in New Zealand in 2011.

49. The TWO noted the explanation of the different forms that variety descriptions could take and the relevance of scale levels in that regard, as presented in Annex II to document TWO/47/18.

50. The TWO noted the information on the guidance for varieties description in Italy, as presented in Annex III to document TWO/47/18.

51. The TWO noted that the results of the practical exercise would be presented to the TWC at its thirty-second session.

Revision of Document TGP/8: Part II: Selected Techniques used in DUS Examination, New Section: Guidance for Blind Randomized Trials

52. The TWO considered document TWO/47/19 and agreed that blind randomized trials were rarely used. The TWO noted that blind randomized trials were used: in Brazil to confirm, in some cases, the assessment of distinctness under a breeder-based testing system for agricultural crops and vegetables; in New Zealand, for some fruit crops and in cases of dispute regarding distinctness; and in the United Kingdom and the Netherlands to confirm lack of distinctness between varieties.

53. The TWO noted that the example in document TWO/47/19 referred to seed-propagated varieties and agreed that other aspects of the trial set up should be considered for vegetatively propagated plants, such as the type and source of plant material used, as considered under the item "Plant Material Submitted for Examination".

54. The TWO noted the proposal from the expert from France to prepare a new draft for consideration by the TC and the TWPs at their sessions in 2015.

Revision of Document TGP/8: Part II: Selected Techniques used in DUS Examination, New Section: Examining Characteristics using Image Analysis

55. The TWO considered document TWO/47/20 and noted the proposal from the expert from the European Union to prepare a new draft for consideration by the TC and the TWPs at their sessions in 2015.

56. The TWO agreed to request the drafter to consider including typical examples of characteristics that could be assessed by image analysis, such as leaf area and length / width of grain.

Revision of Document TGP/8: Part II: Selected Techniques Used in DUS Examination, New Section: Statistical Methods for Visually Observed Characteristics

57. The TWO considered document TWO/47/21 and noted the developments concerning a possible New Section: "Statistical Methods for Visually Observed Characteristics" to be introduced in document TGP/8: Part II: Techniques Used in DUS Examination, in a future revision of document TGP/8.

58. The TWO agreed that it should be clarified that the new proposed method was used for the visual observation of individual plants or parts of plants (VS).

Revision of Document TGP/9: Schematic Overview of TGP Documents Concerning Distinctness

59. The TWO considered document TWO/47/22 and agreed with the proposed revision of the flow diagram in TGP/9, Section 1.6 "Schematic overview of TGP documents concerning distinctness", as set out in document TWO/47/22, paragraph 7 and Annexes I and II.

Revision of Document TGP/9: Section 2.5: Photographs

60. The TWO considered document TWO/47/22 and agreed with the proposed guidance on photographs for inclusion in document TGP/9, Section 2.5 "Photographs", as follows:

> "2.5.3 The suitability of photographs for the identification of similar varieties is strongly influenced by the quality of the photographs taken by the authority for the varieties in the reference collection and the photograph of the candidate variety provided by the applicant with the Technical Questionnaire. Comprehensive guidance for taking suitable photographs is provided in TGP/7, GN 35 (new). The guidance was developed in particular for the applicants to provide suitable photographs of the candidate variety. The same instructions are important and useful for the authorities to take photographs of the varieties in the variety collection under standardized conditions."

Summary of Assessing Uniformity by Off-Types on Basis of more than one Sample or Sub Samples

61. The TWO considered document TWO/47/9 and the situations described in the Annexes I to IV as a basis to develop guidance in document TGP/10.

62. The TWO agreed that clarification should be provided on the decision to be taken in Situation B, Alternative (a) "the trial is repeated at both locations for a second year", in case after repeating a trial for the second year a variety is within the uniformity standard in one growing location but is not within the uniformity standard in the other growing location.

Revision of Document TGP/14: Section 2.4: Apex/Tip Shape Characteristics

63. The TWO considered document TWO/47/23.

64. The TWO considered the proposal to develop an explanation on the inclusion of a state of expression based on a differentiated tip in shape of apex characteristics and proposed that document TGP/14, section 2.4 be amended as follows:

> "2.4.1 The apex of an organ or plant part is the end furthest from the point of attachment. In some cases, the distal extremity of the apex may be differentiated into a "TIP".

"2.4.2 In considering the approach to describe the apex, the size of the organ and the number of apex shapes should be taken into account. Apex characteristics can be described in simple terms and if a differentiated tip is present it could be further described as a separate characteristic. Generally, it is not necessary to separate the apex shape characteristic.

"2.4.3 In cases where it is appropriate to separate into differentiated tip and apex characteristics, the shape of the apex is taken as the general shape, excluding any differentiated tip. For example: […]"

65. The TWO agreed that the approach in document TGP/14 for shape of apex and tip characteristics was most suitable for leaves or larger structures and should be used in particular cases only.

Partial Revision of the Test Guidelines for Buddleja (document TG/263/1)

66. The TWO considered document TWO/47/25 and agreed that Characteristic 21: "Calyx: length" should be reworded to read as follows:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **21.** | | **Corolla tube: length** | **Tube de la corolle : longueur** | **Kronröhre: Länge** | **Tubo de la corolla: longitud** | | |
| **QN** | **(c)** | short | court | kurz | corta | Huimoon, Morning Mist | 1 |
| | | medium | moyen | mittel | media | Masquerade | 2 |
| | | long | long | lang | larga | White Ball | 3 |

67. The TWO agreed that the reworded characteristic "Corolla tube: length" should be moved after current Characteristic 22: "Calyx: pubescence".

68. The TWO agreed that the length of the corolla tube should be measured from the beginning of calyx and that the Leading Expert should amend the "General illustration of flower" in document TWO/47/25 accordingly.

Partial Revision of the Test Guidelines for Gladiolus (document TG/108/4)

69. The TWO considered document TWO/47/26 and agreed that the Test Guidelines for Gladiolus (document TG/108/4), Characteristic 42: "Median inner tepal: attitude of apex" be amended as follows:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **42.** **(+)** | **VG** | **Median inner tepal: attitude of apex** | **Tépale interne médian : port du sommet** | **Inneres mittleres Perigonblatt: Haltung der Spitze** | **Tépalo interno medio: porte del ápice** | | |
| **QN** | **(a)** | moderately incurved | légèrement incurvé | mäßig aufgebogen | moderadamente curvado hacia el interior | Candy, Lady Godiva | 1 |
| | | straight | droit | gerade | recto | Praha, White Prosperity | 2 |
| | | moderately reflexed | légèrement réfléchi | mäßig zurückgebogen | moderadamente reflexo | Charm, Nymph, Zoe | 3 |
| | | strongly reflexed | fortement réfléchi | stark zurückgebogen | muy reflexo | Little Darling | 4 |

Experiences with new types and species

70. An expert from New Zealand reported on applications filed for the protection of new varieties of *Loropetalum*, which are now under examination.

Discussion on draft Test Guidelines

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

71. The subgroup discussed document TG/ABEL(proj.2), presented by Mrs. Françoise Jourdan (France), and agreed the following:

| | |
|---|---|
| 3.1 | to read "… should normally be one growing cycle". |
| 3.4.1 | to read "8 plants" |
| 4.1.4 | to read "7 plants" (2x) |
| 4.2.2 | to read "8 plants" |
| Char.1 | to be deleted |
| Char. 3 | to replace "/" with "," in example varieties in state (1) |
| Char. 6 | to add state (1) to read "absent or very weak"<br>to provide example varieties |
| Char. 7, 8 | to delete (+) and illustrations<br>to replace "/" with "," in example varieties in state (3) |
| Char. 9 | to maintain characteristic 9<br>to be indicated as "MG/VG" |
| Char. 10 | to be deleted |
| Char. 11 | state (4) to read "central zone" |
| Char. 12 | to move after characteristic 10 "Leaf blade: main color on upper side" |
| Char. 14 | to move before characteristic 13 "Leaf blade: distribution of tertiary color"<br>to add "(+)"<br>to read (1) "white", (2) "green", (3) "yellow", (4) "pink", (5) "red" |
| Char. 15 | to check whether to provide example varieties or pictures |
| Char. 16 | state (1) to read "absent or weak" |
| Char. 17 | to add (+) and illustrations (FR) |
| Char. 18 | to read "Calyx lobes: color"<br>to delete state (1) "white"<br>to check to use "variable" or rename characteristic "Calyx: lobes predominant color" |
| Char. 19 | to read "Calyx lobes: number<br>state (4) to read "two to five" |
| Char. 20 | to read "Calyx lobes: width"<br>to be indicated as QN<br>state (3) to read "broad" |
| Char. 22 | to check whether to be indicated VG/MS/MG<br>to delete example variety "Grandiflora" |
| Char. 23 | to check whether to be indicated VG/MS/MG |
| Char. 24 | to be moved after characteristic 21 "Flower bud: color"<br>state (2) to read "semi-erect" |
| Char. 28 | to check whether to have more states |
| Char. 29 | to check whether to read (1) "absent or sparse", (2) "medium", (3) "dense" |
| Char. 32 | state (1) to read "absent or weak" |
| Char. 33 | to check whether to be deleted |
| Char. 34 | to check whether to be deleted |
| Ad. 9 | to improve diagram |
| Ad. 10 | to read "…present on the upper side of a leaf. In cases…" |
| Ad. 11 | to improve diagram<br>to read "… defined pattern on the upper side of a leaf." |
| Ad. 14 | to read "… defined pattern on the upper side of a leaf." |
| Ad. 25, 26 | 1st sentence to read "… inner side of corolla lobe." |

*Aglaonema* (Aglaonema *Schott.*)

72. The subgroup discussed document TG/AGLAO(proj.4), presented by Mr. Kenji Numaguchi (Japan), and agreed the following:

| | |
|---|---|
| 2.2 | to use standard wording for “capable of expressing all relevant characteristics over the growing period.” |
| 5.3(d) | to read “…second largest…”<br>to check whether to specify “on upper side” |
| Char. 7 | states to read “small; medium, large” |
| Char. 13 | to check whether to add (+) and illustration |
| Chars. 22, 26, 30, 38, 42 | to correct order of states of expression according to the addendum |
| Char. 34, 35, 37, 38, 39, 41, 42 | to check whether to delete note (c) |
| Char. 45 | to check whether to use same scale presented in Ad. 45 with three states only and state (1) to read “absent or weak” |
| Char. 48 | to check whether to read “Leaf blade: number of veins on lower side”<br>to check whether to have scale of notes from (1) to (3)” |
| 8.1 | to check whether note 8.1.1 (a) to become a general paragraph in 8.1 applying to all characteristics |
| 8.1.1(a) | to check on time of assessment to allow examination of slow growing varieties (small size)<br>observations should be made on plants which the leaves have reached their full size<br>observations should be made during active growth when most of the leaves are fully grown |
| 8.1.1(b) | to read “Leaf should be observed on full grown leaves on the middle third of the foliage” |
| 8.1.2 | to check whether to become a note in 8.1 |
| Ad. 7 | to improve illustrations (see Ad. 6) |
| Ad. 16 to 43 | to correct note (6) for state “solid or nearly solid” (Char. “Leaf blade: pattern of color”; 3 occurrences) |
| Ad. 17, 21, 25, 29, 33, 37, 41 | to check other wording for “veins”<br>to check current states for possible amendments to include “American” types<br>to check to add explanation to clarify that state “along veins” may not mean along all veins |
| 9. | to read “Sinchaisri, N., et al. 2006: Catalog of Aglaonema in Thailand,180 pp.” |
| TQ 4.2 | to check whether to include remaining wording from TG Template (4.2.2) |
| TQ 5.3, 5.4 | to have the same order of states of expression as in grouping characteristics<br>state (2) “greyed-green” to read “grey green”<br>state (3) “green” to read “medium green” |

**Aloe (*Aloe L.*)*

73. The subgroup discussed document TG/ALOE(proj.3), presented by Mr. Adriaan de Villiers (South Africa), and agreed the following:

| | |
|---|---|
| Char. 6 | to read “Leaf: ratio length/width” and to have states low, medium and high |
| Char. 10 | to delete state (9) |
| Char. 18 | to provide example variety for state (4) |
| Char. 19 | to be indicated as MG/MS |
| Char. 22 | to delete state (5) |

| | |
|---|---|
| Char. 25 | to provide example variety for state (1)<br>to provide explanation on meaning of terms not found in TGP/14 (e.g. corymbose) |
| Char. 27 | to add (+) and illustrations |
| Char. 28 | to add (e) |
| Chars. 32, 36 | to provide example variety for state (5) |
| Char. 40 | to read “Outer perianth segment: recurving of apex” |
| Char. 46 | to check whether to be indicated as VG/MG<br>to delete states (1) and (9) |
| 8.1 | to delete word “all” in first sentence |
| 8.1 (d) | (d) to read “…reflexing of the outer perianth segments. …” |
| 8.1 (e) | (e) to read: “Observations on the flower, flower parts and bracts should be made on fresh fully open flowers” |
| Ad. 1, 2 | to check whether to improve illustration (cut-off) |
| TQ 1 | to read “Genus”<br>1.2.1 to read “Common name”<br>1.3 to delete text box in front of “hybrid” (leave only that for selecting option) |
| 4.2.2 | to add 4.2.2 “Other” and text box |
| 7.4 | to add paragraph number “7.4 A representative ….” |

Calibrachoa *Lave & Lex. (Revision)*

74. The subgroup discussed document TG/272/2(proj.1), presented by Mrs. Andrea Menne (Germany), and agreed the following:

| | |
|---|---|
| Char. 4 | to read “Leaf: length:” |
| Char. 5 | to read “Leaf: width” |
| Char. 6 | to read: “Leaf: shape of apex” |
| Char. 7 | to read: “Leaf: variegation” |
| Char. 8 | to read: “Leaf: main color” |
| Char. 11 | to read: “Calyx lobe: length” |
| Char. 12 | to read: “Calyx lobe: width” |
| Char. 15 | to read “Flower: lobing”<br>to check whether 9 states are observable |
| Char. 16 | to add “(+)” |
| Char. 17 | to move after Char. 18 |
| Char. 19 | to read “Flower: pattern of color …”<br>to check wording |
| Char. 20 | to read: “<u>Only varieties with Flower: type: single</u>: Lower corolla lobes: size of marking”<br>to change illustration accordingly<br>to check whether to move |
| Char. 23 | to be indicated as “PQ”<br>to add new state (3) “broad along the fused part of the corolla lobes” and re-number states (3) and (4) to (4) and (5) |
| Char. 28 | to check whether 9 states observable |
| 8.1 | General remark: to update diagrams and photos according to the discussions on the characteristics |
| Ad. 6 | to read: “Leaf: shape of apex” |
| Ad. 7 | to read: “Leaf: variegation” |
| Ad. 8 | to read: “Leaf: main color” |
| Ad. 11 | to read: “Calyx lobe: length” |
| Ad. 12 | to read: “Calyx lobe: width |

| | | |
|---|---|---|
| | Ad. 15 | to read “Flower: lobing”<br>to adjust the arrows to point to the lobes |
| Ad. 17 | to have illustrations as follows:<br><br>Ad. 17: Flower: area of color at transition to corolla tube<br><br>      <br>1 absent or very small; 3 small; 5 medium; 7 large; 9 very large | |
| | Ad. 19 | to read “Flower: pattern of color …”<br>to check wording |
| | Ad. 20 | to read: “Only varieties with Flower: type: single: Lower corolla lobes: size of marking”<br>to change illustration accordingly |
| Ad. 23 | to have illustrations as follows:<br><br>      <br>1 narrow along the fused part of the corolla lobes; 2 medium along the fused part of the corolla lobes; 3 broad along the fused part of the corolla lobes; 4 at margin of corolla lobes; 5 irregular<br><br>to check whether to explain | |

*Campanula* (Campanula *L.*)

75. The subgroup discussed document TG/CAMPA(proj.4), presented by Miss Elizabeth Scott (United Kingdom), and agreed the following:

| | |
|---|---|
| Char. 2 | to add example variety for state (1) |
| Chars. 10, 50 | to be reviewed according to discussions on document TWO/47/23 |
| Chars. 21, 25 | to have same example varieties as in TQ.5 |
| Char. 30 | to be placed before 29 |
| Char. 36 | to be placed before 35 |
| Char. 43 | to check whether heading to read “Corolla: relative length of fused part compared to total corolla length<br>to check whether to review the states (if “relative” is added) |
| Char. 47 | to add (+) |
| 8.1 | to have a general explanation on time of observation in case all characteristics are observed at time of full flowering |
| 8.1 (b) | to read “…leaf blade should…” |

* Indicates possible final draft Test Guidelines

| | |
|---|---|
| Ad. 19 | to delete current illustrations and replace with illustrations from document TG/CAMPA(proj.3) |
| TQ 1.1 | to replace “Botanical name” by “Genus” |
| TQ 5.3 | to add as grouping characteristic |
| TQ 5.8 | to correct numbering of TQ Characteristics from 5.8 onward |
| TQ 7.3 | to read “Main use of the variety” (delete “Other information) |
| TQ 7.4 | to add number “7.4” to sentence “A representative color image…” |

**Carnation (*Dianthus *L.)*

76. The subgroup discussed document TG/25/9(proj.7), presented by Ms. Katie Pont (Netherlands), and agreed the following:

| | |
|---|---|
| 4.4.2 | to specify “… of vegetatively propagated varieties, a population standard…” |
| 5.3 (f) | to provide explanation on how the characteristics were combined |
| 5.5 | to include guidance on sub-types within type (C) |
| 6.5 | to include:<br>“(C) cut flower type:<br>“- (Co): one flower per stem<br>“- (Cs): spray<br>“- (Cu): umbrella (Sweet William)<br>“(G) garden type<br>“(P) pot type” |
| Char. 17 | to read “Leaf: curvature” |
| Char. 25, 27 | to delete state (2)<br>to be indicated as QL due to inexistence of intermediary state observed in variety collection of interested experts |
| Char. 26, 28 | to replace “apex” by “tip” in heading<br>to be indicated as VG/MS |
| Char. 29, 30 | to add (+) and explanation using illustration in Ad. 31 |
| Char. 33 | to delete state (1) and renumber remaining states |
| Char. 34 | to include state “absent or very weak” (1)<br>to renumber remaining states from (2) to (4)<br>to be placed before Char. 33 |
| Char. 39 | to read “Only varieties with: Flower: type: double: flower: number of petals” |
| Char. 40 | to have states “short; medium; tall” |
| Char. 46 | state (4) “denticulate” to read “dentate”<br>state (5) to read “crenate-dentate”<br>to check appropriate wording for current state (3) |
| Char. 52 | state (1) to read “none”<br>to delete notes (d) and (e)<br>to delete example variety “Hilqueen” from state (3) “medium” |
| Chars. 53 to 56 | to delete notes (d) and (e) |
| Chars. 55, 56 | state (1) to read “none” |
| Char. 57 | to add note (c)<br>to delete note (d) and (f) |
| Char. 58 | to be placed before Char. 57<br>to add state (1) “none” and renumber other states accordingly<br>to add note (c) |
| Char. 62 | to be indicated VG/MG |
| Char. 65 | to have states “white with red flush” and “white with purple flush” after state “white”<br>to add (+) and explanation |
| 8.1 (d) | to read “The main color is the color with the largest surface area. The secondary color is the color with the second largest surface area. …” |

| | |
|---|---|
| Ads. 1, 2 | to read " … to the top of the plant, …" |
| Ads. 14, 22. 59 | to change order of states to be numbered from left to right and from bottom (2) to top (3 or 4) |
| Ad. 21 | to improve illustration for state (1) |
| Ad. 42 | to add arrows to indicate how to be observed |
| Ad. 45 | to improve illustration for state (3) |
| Ad. 59 | to check to replace illustration for state (1) |
| TQ 4.2.2 | to include standard wording for "seed" |
| TQ 5.5, 5.6 | to replace "red" by "medium red" |
| TQ 7.3 | types to be presented in same order as in section 6.4 |
| TQ 9.3 | to be deleted |

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

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

| | |
|---|---|
| 4.3.2 | to read "…by testing a new seed stock to ensure…" |
| Char. 3 | to check to delete note "(a)" |
| Char. 5 | to check to delete note "(a)" |
| Char. 7 | to add (+) and illustration |
| Char. 8, 9 | to be placed before 6 |
| Char. 15 | to check whether to clarify explanation on the cut-off point |
| Char. 16 | to read "Only varieties with: Flower head: type: single and double: …"<br>to delete state (1) |
| Char. 23 | to check whether to separate "twisted" into another characteristic |
| Char. 24 | to remove "at the widest part" from heading and add to explanation (Ad.) |
| Char. 25 | to add a note (g) and explanation on main and secondary color in 8.1 |
| Char. 26 | to add (+) and explanation on main and secondary color in 8.1 |
| Char. 29 | to read "Only varieties with: Flower head: type: double: Inner ray floret: shape" |
| Char. 30 | to read "Only varieties with: Flower head: type: double: Inner ray floret: curvature of longitudinal axis" |
| Char. 31 | to read "Only varieties with: Flower head: type: double: Inner ray floret: profile in cross section" (to remove "at the widest part")<br>to add to explanation (Ad.) |
| Char. 32 | to read "Only varieties with: Flower head: type: double: Inner ray floret: main color of inner side"<br>to add explanation on main and secondary color in 8.1 |
| Char. 33 | to read "Only varieties with: Flower head: type: double: Inner ray floret: secondary color of inner side"<br>to add explanation on main and secondary color in 8.1 |
| Char. 34 | to read "Only varieties with: Flower head: type: double: Inner ray floret: distribution of secondary color of inner side"<br>to add explanation on main and secondary color in 8.1 |
| Char. 35 | to read "Only varieties with: Flower head: type: double: Inner ray floret: main color of outer side "<br>to add explanation on main and secondary color in 8.1 |
| Char. 36 | to check whether QN<br>to clarify explanation on the cut-off point between states |
| Char. 39 | to check whether to add (+) and explanation to clarify "disc floret"<br>to add "Ad. 39: Observation should be made on outer three/four rows of disc florets." |
| Char. 41 | to check whether to have states "smaller; same; larger" |

| | |
|---|---|
| Ad. 15 | to check whether to add photograph for state 1<br>to read: "2: single flower heads with one row of ray florets"<br>to add other illustrations to clarify the cut-off point between states (2) and (3) |
| TQ 5.3(17) | to check whether to be added as grouping characteristic |
| TQ 5.6(36) | to check whether to add example variety "Siena Pink" to state (1) |
| TQ 7.3.2 | to delete "Where an image of the variety is to be provided" |
| TQ 9.3 | to be deleted |

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

78. The subgroup discussed document TG/CORDY(proj.2), presented by Mr. Chris Barnaby (New Zealand), and agreed the following:

| | |
|---|---|
| name box | to read "*Cordyline australis*, *banksii*, *indivisa*, *kaspar*, *obtecta* and *pumilo*, and hybrids between" |
| alternative names | to read "*Cordyline australis*, *banksii*, *indivisa*, *kaspar*, *obtecta* and *pumilo*, and hybrids between" |
| 1. | to read "These Test Guidelines apply to all varieties of *Cordyline australis, banksii, indivisa, kaspar, obtecta* and *pumilo*, and hybrids between" |
| 2.2 | to read "The material is to be supplied in the form of plants which are capable of expressing the relevant characteristics of the variety in the first growing cycle." |
| 5.3(d) | to read "Leaf: main color" |
| 5.3(e) | to read "Leaf: secondary color" |
| Char. 2 | to add (+) and explanation on how to measure |
| Char. 5 | to add (+) and explanation when to observe |
| Char. 9 | to read: "Petiole: main color of inner side" |
| Char. 12 | to read: "Young leaf: tertiary color"<br>to add (+) and explanation/illustration |
| Char. 14, 15 | state (2) to read "semi-erect" |
| Char. 18 | to read: "Leaf: conspicuousness of midrib on outer side"<br>move to after 25 |
| Char. 18a | to add new Char.18a "Leaf: color of midrib on outer side if conspicuous" with "RHS Colour Chart (indicate reference number)" or possible color groups to be considered |
| Chars. 18 and 18a | to move Chars. 18 and 18a after Char. 25 |
| Char. 19 | to read: "Leaf: venation on inner side" |
| Char. 20 | to read: "Leaf: glossiness" |
| Char. 21 | to read "Leaf: main color" |
| Char. 22 | to read "Leaf: secondary color" |
| Char. 23 | to read "Leaf: distribution of secondary color striping"<br>state (3) to read "throughout" |
| Char. 25 | to read "Leaf: main color of outer side" |
| 8.1(a) | to read "Observations on the petiole should be made on a mature leaf in the middle third of the foliage on a stem." |
| 8.1(b) | to read "Observations on the young leaf should be made on the leaves at the apex of a stem." |
| 8.1(c) | to read "Observations on the leaf and leaf blade should be made on mature leaves in the middle third of the foliage on a stem" |
| 8.1(d) | to read "Observations on color and glossiness of the leaf should be made on the inner side." |
| Ad. 4 | to improve picture for state 9 |
| Ad. 10, 11, 12 | to combine |

| | |
|---|---|
| Ad.14 | to improve diagram (either better photos or drawings) |
| Ad.15 | to improve picture for state 3 |
| Ad.18 | to have same notes as in T.o.C. (1, 3, 5) |
| Ad.19 | to read: “Leaf: venation on inner side” |
| Ad.21 | to read “Leaf: main color” |
| Ad.21, 22 | to combine |
| Ad.22 | to read “Leaf: secondary color” |
| Ad.23 | to read “Leaf: distribution of secondary color striping”<br>state (3) to read “throughout” |
| Ad.25 | to read “Leaf: main color of outer side” |
| 9. | to review formatting of page number as to show “pp 87-91” |
| TQ 1.1.1 | to read “Cordyline australis, banksii, indivisa, kaspar, obtecta and pumilo, and hybrids between” |
| TQ 5.4 i and ii | to read “Leaf: main color” |
| TQ 5.5 i and ii | to read “Leaf: secondary color” |

**Cosmos* (Cosmos *Cav.*)

79. The subgroup discussed document TG/COSMOS(proj.6), presented by Mr. Takayuki Mikuni (Japan), and agreed the following:

| | |
|---|---|
| 2.3 | to add hyphen in “seed-propagated” |
| 6.5 | to read “(a)-(c) See …” |
| Char. 1 | to be indicated as QN<br>states (1) and (2) to read “upright” and “semi upright”, respectively |
| Char. 11 | to read “upwards; outwards; downwards” (plural) |
| Char. 19 | to be deleted |
| Char. 21 | to have states “strongly incurved”, “moderately incurved”, “weakly incurved”, “straight”, “weakly reflexed”, “moderately reflexed”, and “strongly reflexed”<br>to have seven notes |
| Char. 22 | to be deleted |
| Char. 29, 32 | to add state (1) “none” and to renumber other states accordingly |
| Char. 30, 33 | to delete (+) and explanation |
| Ad. 9 | to add the following sentence: “For varieties that are very polymorphic the observation should consider the most frequent number of lobes.” |
| Ad. 21 | Illustrations to be provided according to the changes to characteristic 21 |
| Ad. 29, 32 | To reduce size of central zone in illustration for state (9) |
| 9 | to complete reference “The Royal Horticultural Society, 1999” |
| TQ 1 | to have: “1.1 Genus”; “1.2 Species”; “1.3 Common name” |
| TQ 5 | to add Char. 1 “Plant: growth habit” in TQ 5 |
| 6 | states to read “upright” and “semi upright” |
| 7.4 | to add paragraph number “7.4” before sentence “A representative…” |

*Freesia (*Freesia *Eckl. ex Klatt) (Revision)*

80. The subgroup discussed document TG/27/7(proj.1), presented by Mr. Henk de Greef / Ms. Katie Pont (Netherlands), and agreed the following:

| | |
|---|---|
| alternative names | to check whether to add other synonyms |
| 1. | to read “… all vegetatively propagated varieties of …” |

| | |
|---|---|
| 2.2 | to read “The material is to be supplied in the form of corms, able to show all the characteristics in the first year.” (to delete “In case of vegetatively propagated varieties” and to delete second sentence of paragraph) |
| 2.3 | to delete “seed-propagated varieties: 500 seeds” |
| 5.3 | to inverse (d) with (e) |
| Char. 1 | to add (+) and illustration/explanation on how to be assessed<br>to be indicated as VG/MG/MS |
| Char. 2 to 5 | to move after characteristic 10 “Leaf blade: plicate” |
| Char. 8 | to check whether 9 notes observable |
| Char. 10 | to check whether to read “Leaf blade: plication”<br>to check whether to add an illustration |
| Char. 11 | to be indicated as QN |
| Char. 14 | to have states (1) “short”, (2) “medium”, (3) “long” |
| Char. 15 | to read “Spike: length of rachis between second and third flower”<br>to have states (1) “short”, (2) “medium”, (3) “long” |
| Char. 17 | to read “Spike: curvature at distal part”<br>to add “(+)” |
| Char. 21 to 23 | to check whether to move before flower characteristics |
| Char. 22 | to check whether 9 notes observable |
| Char. 23 | state (1) to read “absent or weak” |
| Char. 31 to 47 | to check which one of the outer segments and of the inner segments to be described for observation |
| Char. 35 | to read “position of broadest part of outer segments” |
| Char. 38 | to have notes (1), (2), (3)<br>to add (+) and illustration |
| Char. 39 to 47 | to add (+) and explanation on semi-double and double flower |
| Char. 42 | to read “position of broadest part of inner segments” |
| Char. 43 | to read “Perianth: attitude of inner side of inner segments” |
| Char. 46 | to read “Perianth: pattern of secondary color of inner side of inner segments” |
| Char. 47 | to read “Perianth: size of macule of inner side of inner segments …” |
| Char. 49 | to be indicated as “QL”<br>to add (+) and explanation on time of assessment |
| Char. 51 | to read “Stigma: position in relation to …”<br>to add (+) and explanation on time of assessment |
| Char. 53 | to have notes (1), (2), (3) |
| Char. 54 | to add (+) and explanation on time of assessment |
| 8.1 | to provide explanation on which of the outer segment and of the inner segment to be described |
| 8.1 (a) | to check whether 50% from all plants or from one plant |
| Ad. 2, 5 | to read “Peduncle length should be observed …” |
| Ad. 16 | to improve illustration for state (3) |
| Ad. 17 | Ad. 17: to improve pictures |
| Ad. 20 | to add explanation |
| Ad. 21, 24, 26, 31, 39, 48, 50 | to move schematic as a note in 8.1 |
| Ad. 43 | to read “Perianth: attitude of inner side of inner segments”<br>to provide illustration for note (3) |
| Ad. 47 | to read “Perianth: size of macule of inner side of inner segments …” |
| Ad. 51 | to read “Stigma: position in relation to …” |
| TQ 1 | to check whether to have one box for genus (Freesia) one box for species and one box for hybrids |

| | |
|---|---|
| TQ 5.4 i and ii | to read “Perianth: main color on the inner side of inner segments”<br>to inverse with “… outer segments” (5.5) |
| TQ 5.5 i and ii | to read “Perianth: main color on the inner side of outer segments”<br>to inverse with “… inner segments” (5.4) |
| TQ. 9.3 | to check whether section 9.3 is necessary |

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

81. The subgroup discussed document TG/GREVI(proj.2), presented by Mr. Nik Hulse (Australia) and agreed the following:

| | |
|---|---|
| Alternative names | to add “Grevillea” as common name in FR, DE and ES (GENIE) |
| Header | to correct document name TG/GREVI(proj.2) (proj.1) from page 7 onwards |
| T.o.C | General remark: to add more (*) |
| Char. 1 | to have state (2) “semi-upright” |
| Char. 2 | to consider adding explanation or illustration |
| Char. 3 | to read “Plant: height”<br>to add (+) and explanation on how to be assessed |
| Char. 7 | to be moved before Char. 6<br>to check whether example variety for state (1) available |
| Char. 11 | to have notes (1), (2), (3) |
| Char. 14 | to check whether to be indicated as PQ<br>to add (+) and illustration |
| Char. 15 | to delete “sinus” and “of way” in each state |
| Char. 17 | to check whether QL<br>to add (+) and illustration |
| Char. 18 | to simplify wording of characteristic (e.g. “Leaf: cross section”)<br>to add (+) and illustration<br>to consider relationship to Char. 25 |
| Char. 19 | to clarify which leaf types these apply to |
| Char. 20 | to clarify which leaf types these apply to |
| Char. 21 | to read “Leaf: length of lobe” |
| Char. 22 | to read “Leaf: width of lobe”<br>to check example variety “Ivory Whip” |
| Char. 23 | to add illustration<br>to consider combining 23 and 24 |
| Char. 24 | to be indicated as PQ<br>to check whether to add state “none” |
| Char. 28 | to read “Leaf: hairiness of upper side” |
| Char. 29 | to read “Leaf: hairiness of lower side” |
| Char. 30 | to check whether “QL” |
| Char. 32 | to be indicated as PQ<br>to have states in following order (2) “both terminal and axillary”; (3) “axillary only” |
| Char. 33 | to be indicated as QN<br>to consider adding explanation on where to observe |
| Char. 34 | to check whether to add state “strong” |
| Char. 40 | to check correlation between 40 and 41 |
| Char. 41 | to check example variety “File Cracker” |
| Char. 43 | state (1) to read: “towards the apex”<br>state (3) to read: “towards the base” |
| Char. 45 | to read “Flower bud: attitude of limb in relation to longitudinal axis of bud” |

| | |
|---|---|
| Char. 46, 47, 54, 56, 58, 63, 66 and 70 | to change the order of states “yellow” and “green” |
| Char. 46 | to read “Flower bud: color of limb” |
| Char. 47 | to read “Flower bud: perianth color” |
| Char. 50 | to consider reading “Perianth: hairiness”<br>to add (+) and explanation on “outside of perianth including limb” |
| Char. 52 | to consider “fusion” in place of “coherence” |
| Char. 53 | to consider “fusion” in place of “coherence” |
| Char. 55 | to adding (+) and illustration |
| Char. 59 | to add illustration<br>to check whether to read state (1) “straight or slightly curved”<br>to check whether to read state (2) “moderately curved”<br>to check whether to read state (3) “strongly curved” |
| Char. 60 | to check whether to delete characteristic |
| Char. 61 | to have states (1) “absent or weak”, (2) “medium” (3) “strong”<br>to check example varieties |
| Char. 62 | to swap states (1) and (2) |
| Char. 68 | to consider reading “Pollen presenter: inline with style” |
| Ad. 68 | to consider reading “Pollen presenter: inline with style”<br>to improve diagram |
| Char. 69 | to consider adding (+) and illustration<br>to consider changing the wording of states |
| 8.1 | to improve diagram and to add “ventral”, “dorsal” |
| 8.1 (c) | to add an illustration on inflorescence |
| Ad. 1 | to have state (2) “semi-upright” |
| Ad. 13 | to add state (2) “ovate” in diagram<br>to update order (see TGP/14, page 27) |
| Ad. 19 | to clarify which leaf types these apply to |
| Ad. 20 | to clarify which leaf types these apply to |
| Ad. 37 | to check whether to provide better pictures |
| Ad. 38 | to add explanation |
| Ad. 43 | state (1) to read: “towards the apex”<br>state (3) to read: “towards the base” |
| Ad. 45 | to read “Flower bud: attitude of limb in relation to longitudinal axis of bud” |
| Ad. 68 | to improve diagram |
| 9. | to add reference to Elliott and Jones … |
| TQ 4.2 | to insert “grafting” between (b) and (c) |

*Petunia (Petunia Juss.; ×Petchoa J.M.H. Shaw) (Revision)*

82. The subgroup discussed document TG/212/2(proj.1), presented by Mrs. Andrea Menne (Germany), and agreed the following:

| | |
|---|---|
| 4.1.4 | to read: “In the case of vegetatively propagated varieties, unless otherwise indicated, for the purposes of distinctness …” |
| 4.1.4.2 | to check whether to read: “In the case of seed-propagated varieties, unless otherwise indicated, for the purposes of distinctness …” |
| 4.3.2 | to read “… by testing a new seed or plant stock …” |
| 5.3 | to have same groups as in TQ |
| Char. 4 | to replace throughout document “Leaf” by “Leaf blade” |

| | |
|---|---|
| Char. 6 | to check whether to add note (a)<br>to check whether to be indicated as PQ |
| Char. 13 | to read “Calyx lobe: length |
| Char. 14 | to read “Calyx lobe: width” |
| Char. 16 | to read “… Flower: density”<br>to have states “very sparse; sparse; medium; dense” |
| Char. 18 | to check whether state “campanulate” to read “open campanulate” |
| Char. 19 | to read “Flower: lobing”<br>to check whether 9 states are observable |
| Char. 20 | to read “Flower: depth of incisions of margin” |
| Char. 21 | to read “Flower: undulation” |
| Chars. 24 to 28 | to check whether to duplicate Chars. 24 to 28 and record the duplicated characteristics later in the trial |
| Char. 30 | to read “Aged flower: main color” |
| Char. 35 | to check whether to be indicated as “VG” |
| New Char. | to check whether to add new Char. 36 “Time of beginning of flowering” |
| 8.1 | to add note (c) for characteristics repeated later<br>to check time of observation for repeated characteristics |
| 8.2 | to add illustration for state (2) |
| Ads. 2, 3 | last sentence to read “… should be done towards the end of the trial. |
| Ad. 12 | to read “The anthocyanin coloration should be observed on the distal third of the pedicel.”<br>to add illustration on the part of pedicel to be observed |
| Ad. 13, 14 | to check whether to have indications of width and length on same sepal |
| Ad. 15 | to add explanation on cut-off point e.g. “A double flower has more than 5 corolla lobes.” |
| Ad. 18 | to check whether to use illustrations |
| Ad. 19 | to add arrow showing lobes |
| Ad. 20 | to check whether to improve images |
| Ad. 21 | to check to improve illustrations |
| Ad. 22 | to check illustration for state (5) |
| Ad. 26 | to check illustration for state (5) |
| TQ 1 | to check whether to use “Genus” or “Botanical name” |
| 7.4 | to add paragraph number “7.4” to sentence on photograph |

*Plectranthus (*Plectranthus *L'Hér.)*

83. The subgroup discussed document TG/PLECT(proj.1), presented by Mr. Adriaan de Villiers (South Africa), and agreed the following:

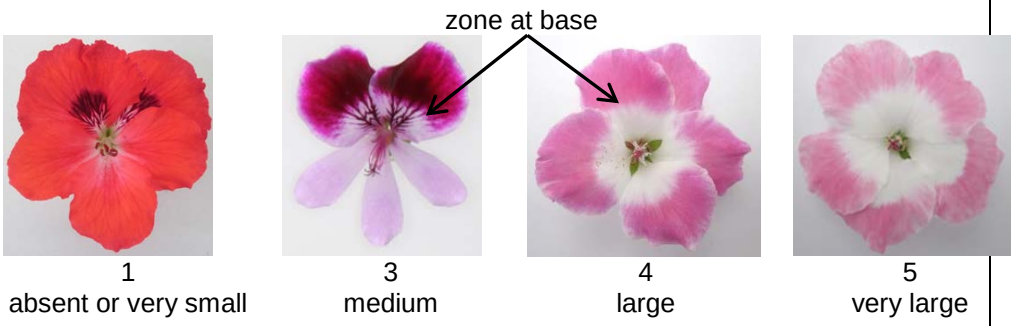
| | |
|---|---|
| Alternative names | to add missing synonyms as in GENIE |
| T.o.C | General remark: to check example varieties |
| Char. 1 | to add (+) and illustration |
| Char. 7 | to add (+) and explanation/illustration |
| Char. 13 | to have notes (1), (2), (3) |
| Char. 14 | to provide example varieties |
| Char. 16 | to read “distribution” instead of “position”<br>to replace “entire area” with “throughout” in state (3) |
| Char. 17 | to add (+) and illustration |
| Char. 18 | to have states (1), (2), (3), (4), (5) |

| | |
|---|---|
| Char. 19 | to have states (1), (2), (3) |
| Char. 20 | to have states (1), (2), (3), (4), (5) |
| Char. 22 | to have states (1), (2), (3), (4), (5) |
| Char. 23 | to have states (1), (2), (3), (4), (5) |
| Char. 24 | to add (+) and explanation |
| Char. 26 | to read: "Corolla: height" |
| Char. 28 | to read "Corolla tube: height" |
| Char. 29 | to read "Corolla tube: ratio length/height"<br>to add (+) and illustration |
| Char. 36 | to be indicated as "VG/MG" |
| 8.1 | to delete "all" |
| Ad. 2 | to delete explanation and replace with illustration |
| Ad. 18 | to have states (1), (2), (3), (4), (5) |
| Ad. 25, 26 | to be combined |
| Ad. 26 | to read: "Corolla: height" |
| Ad. 27, 28 | to be combined |
| Ad. 28 | to read: "Corolla tube: height" |
| Ad. 32, 33, 34, 35 | top legend in drawing to read: "Inner side of upper corolla lobe"<br>bottom legend in drawing to read: "Outer side of lower corolla lobe"<br>to change direction of bottom arrow |
| TQ 1.2.1 | to read: "Common name" |
| TQ 4.2 | to add 4.2.3 from the TG template (to be numbered 4.2.2) |
| TQ 7. | to add section 7.4: photographs |

**Regal Pelargonium (Revision)*

84. The subgroup discussed document TG/109/4(proj.2), presented by Mrs. Andrea Menne (Germany), and agreed the following:

| | |
|---|---|
| Common name box | botanical names to read: *Pelargonium grandiflorum* (Andrews) Willd*.; P. ×domesticum* L. H. Bailey; *P. crispum* (P.J. Bergius) L'Hér. and *P. crispum x P. xdomesticum* |
| 1 | to have same species and hybrids as in common name box |
| Char. 9 | to delete rows of states (2) "light to medium" and (4) "medium to dark" |
| Char. 12 | to check whether to add (+) and explanation |
| Char. 13 | to check whether to add (+) and explanation |
| Char. 14 | to read "Pedicel: anthocyanin coloration" and add (+)<br>to have state (1) absent or weak with example variety "Regscho"<br>to have state (2) medium<br>to have state (3) strong with example varieties "Randy, Virginia" |
| Char. 18 | to review wording of Chars. 17 and 18 to check on description of color of middle when no marking is visible<br>to check whether to improve the diagram and to use an schematic to describe the different areas to be observed |
| Ad. 6 | to add the following sentence to explanation: The depth of the sinus is observed in relation to the size of the leaf blade. |
| Ad. 14 | to read "Pedicel: anthocyanin coloration"<br>to read "The anthocyanin coloration should be observed on the upper third of the pedicel."<br>to add a diagram to explain observation |
| Ad. 19 | to check wording in relation to Chars. 17 and 18 |

| | |
|---|---|
| Ad. 20 | to have illustrations and explanation as follows:<br>  <br><br>1 absent or very small<br>3 medium<br>4 large<br>5 very large<br><br>The size of the zone is observed in relation to the size of the upper petal. |
| Ads. 23, 24 | to check in relation to wording of Chars. 17 and 18 (marking / middle) |
| Ad. 26 | to have illustrations and explanation as follows:<br>  <br>1 absent or very small<br>2 small<br>4 large<br>5 very large<br>zone at base<br><br>The size of the zone is observed in relation to the size of the lower petal. |
| TQ 1.3 | to add text in box Hybrid "*P. crispum* x *P. xdomesticum*"<br>to add "other (please specify" under hybrid and a box |

*Salvia* (Salvia *L.*)

85. The subgroup discussed document TG/SALVI(proj.2), presented by Mr. Tetsuya Takahashi (Japan), and agreed the following:

| | |
|---|---|
| 1. | to read "Salvia" in italics |
| 4.2.3 | to check whether to read "…uniformity of self-pollinated seed-propagated varieties…" |
| 4..2.4 | to check whether to read "…uniformity of cross-pollinated varieties…" |
| T.o.C | to check whether to indicate only the method of observation that is used by the Leading Expert to assess the characteristics and to delete any other method indicate in case not used |
| Char. 1 | to check whether to be indicated as PQ |
| Char. 9 | to check whether to add new characteristic "Leaf: type" with states "simple" and "compound". If new characteristic added, explanation is needed on how to assess leaf characteristics |
| Char. 10 | to add (+) and an illustration<br>to add example varieties |
| Char. 14 | to check to have Chars: "variegation" with states "absent; present" and to have "Leaf blade: main color of upper side", "Leaf blade: secondary color of upper side" and "Leaf blade: distribution of secondary color of upper side"<br>Main color and secondary color characteristics should have same states as in current Char. 14 |
| Char. 18 | to check whether example varieties available |
| Char. 20 | to have 5 notes only |

| | |
|---|---|
| Char. 21 | to check whether to be indicated as QN<br>to check the appropriate number of notes |
| Char. 22 | to have 5 notes |
| Char. 26 | to check whether to add illustrations or to delete (+) |
| Char. 35 | to check whether to have states “short; medium; tall” |
| Char. 45 | to reinstate Char. “Lower lip: undulation of margin” |
| Ad. 1, 13, 19, 20, 22, 25, 26, 27 | to check whether illustrations available |
| 9. | to check whether information on page numbers available |
| TQ 7.3 | to add question on the main use of the variety (e.g. garden plant; pot plant; culinary; other) |
| TQ 9.3 | to check whether 9.3 necessary or could be deleted |

*Zinnia* (Zinnia *L.*)

86. The subgroup discussed document TG/ZINNIA(proj.4), presented by Mr. José Mejia Muñoz (Mexico), and agreed the following:

| | |
|---|---|
| name box | to have all species and hybrids listed in Section 1 + TQ<br>to delete Zinnia L. |
| alternative names | to have all species and hybrids listed in Section 1 + TQ<br>to delete Zinnia L. |
| 1. | to specify which hybrids are covered<br>to have all species and hybrids (F1)<br>to delete Zinnia L. |
| 2.3 | to read “…40 plants for cross-pollinated varieties.” |
| 3.1 | to read “The minimum duration of tests should normally be a single growing cycle for F1 hybrids.”<br>to add “The minimum duration of tests should normally be 2 growing cycles for cross-pollinated varieties” |
| 3.4.1 | to read: “Each test should be designed to result in a total of at least 10 plants for F1 hybrids and 40 plants for cross-pollinated varieties” |
| 4.14 | to read: “Unless otherwise indicated, for the purposes of distinctness all observations on single plants should be made on 9 plants for F1 hybrids and at least 20 for cross pollinated varieties or parts taken from each plants and any other observations made on all plants in the test, disregarding any off-type plants.” |
| 4.2.2 | to read: “For cross-pollinated varieties, the assessment of uniformity should be according to the recommendations for cross-pollinated varieties as appropriate, in the General Introduction. |
| 4.2.3 | to read: “For the assessment of uniformity of F1 hybrid varieties, 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.” |
| 5.3 | to add Char. 27 to TQ 5 |
| T.o.C | General remark: to review example varieties (correct denomination) |
| Char. 4 | to have states (1) absent or weak, (2) medium , (3) strong |
| Char. 5 | to have states (1) absent or sparse, (2) medium , (3) dense |
| Char. 6 | to move after Char. 7 “Leaf: length” |
| Char. 7 | to provide example varieties |
| Char. 9 | to add (+) and illustration |
| Char. 12 | to read: “… position of longitudinal curvature” |
| Char. 13 | to read “Leaf: anthocyanin coloration at base” |

| | |
|---|---|
| Char. 15 | to consider same approach as in Echinacea, to look at number of ray florets without distinguishing the types |
| Char. 18 | to have states (1) to (5) (check standard wording)<br>to add (+) and explanation/illustration |
| Char. 20 | to provide example varieties |
| Char. 21 | to provide example varieties<br>to add (+) and illustration |
| Char. 22 | to retain 9 states and re-consider the wording of the states in line with the dahlia guidelines |
| Char.23 | to read “Ray floret: longitudinal curvature”<br>to read: “… position of longitudinal curvature” Char. 23 |
| Char. 25 | to read: “Ray floret: intensity of longitudinal curvature”<br>to have states (1) to (5)<br>to add (+) and explanation/illustration |
| Char. 26 | to have states (1) mucronate, (2) truncate, (3) rounded, (4) emarginated<br>to delete (d) |
| Char. 27 | to delete (e) |
| Char. 28 | to delete (e) |
| Char. 29 | to add state (1) “none”<br>to be placed before Char. 28<br>to consider adding more states |
| Char. 30 | to add (+) and illustration |
| Char. 31 | to use same approach to describe tertiary color and secondary color |
| Char. 32 | to have state (1) to use same approach to describe tertiary color and secondary color<br>to have the same Ad. for tertiary color as for secondary color |
| Char. 32 | to add state (1) “none” |
| 8.1 | to check whether to add information on time of assessment (full flowering?) |
| 8.2 | to check/review (b) and (c) for examining |
| TQ 5.4(24) | to delete from TQ – to be replaced by Char. 33 |

Guidance for drafters of Test Guidelines

87. The TWO considered document TWO/47/10 and received a presentation on the web-based TG Template by electronic means, a copy of which is presented in the Annex to document TWO/47/10.

88. The TWO noted the features of Version 1 of the web-based TG Template, as set out in document TWO/47/10, paragraph 10.

89. The TWO noted the request for Leading Experts to participate in the testing of Version 1 of the web-based TG Template.

90. The TWO noted the exclusive use of the web-based TG Template for the development of all Test Guidelines from 2015.

91. The TWO agreed that the web-based TG Template should allow the printing of comments made by interested experts sorted by interested expert or characteristic and noted that assistance would be provided by the UPOV Office for Leading Experts on the use of the web-based TG Template, if requested.

Revision of Document TGP/9: Method of Observation (Single Measurement – MG)

92. The TWO considered document TWO/47/22 and the proposed example of a single record for a group of plants (MG) taken on plant parts for inclusion in a future revision of document TGP/9, Section 4.3.2 “Single record for a group of plants or parts of plants (G)” and Section 4.3.4 “Schematic Summary”, as set out in document TWO/47/22, paragraphs 16 and 17.

93. The TWO noted that in order to obtain a single record for a group of plants (MG) taken on plant parts of vegetatively propagated plants the DUS examiner would visually assess the plants and confirm they are uniform before proceeding further. The approach is the same as in the "Plant: height" example but organs are removed to conduct the assessment. A typical plant is used to record the measurement. The TWO noted that no variety mean was calculated and that the measurement was used for comparing data with other varieties in the variety collection.

94. The TWO agreed that the example of a single record for a group of plants (MG) taken on plant parts for inclusion in a future revision of document TGP/9, Section 4.3.2 "Single record for a group of plants or parts of plants (G)" and Section 4.3.4 "Schematic Summary" should read as follows:

> "Example (MG)
>
> "Measurement (MG): "Leaf blade: width" in Hosta (vegetatively propagated): a representative measurement in the plot."

95. The TWO agreed that a suitable illustration should be provided for inclusion in document TGP/7, Subsection 4.3.4.

UPOV Information and Databases (contd.)

*(b) Variety description databases*

96. The TWO noted the developments on variety description databases, as set out in document TWO/47/6.

97. The TWO agreed on the relevance of the database for Pea varieties, and agreed that it would not be appropriate to develop a database for an ornamental species at this time.

*Matters raised by the International Seed Federation (ISF)*

98. The TWO noted the matters raised by the ISF in relation to variety descriptions by the applicant and variety description databases.

*Administrative and Legal Committee*

99. The TWO noted the conclusion of the CAJ on matters concerning variety descriptions, as set out in document TWO/47/6, paragraph 29. The TWO noted that the TC had been invited to consider the development of guidance on certain matters concerning variety descriptions and agreed on the relevance of the discussion on the status of variety descriptions for UPOV members.

*(c) Exchangeable software*

100. The TWO considered document TWO/47/7.

101. The TWO noted that document UPOV/INF/22 "Software and equipment used by members of the Union" would be presented for adoption by the Council at its forty-eighth ordinary session, to be held in Geneva on October 16, 2014, as set out in document TWO/47/7, paragraph 5.

102. The TWO noted that subject to adoption of document UPOV/INF/22 by the Council at its forty-eighth ordinary session, a circular would be issued to the designated persons of the members of the Union in the TC, inviting them to provide information regarding non-customized software and equipment used by members of the Union, as appropriate.

103. The TWO noted that a revision of document UPOV/INF/16/3 concerning the inclusion of the SIVAVE software would be presented for adoption by the Council at its forty-eighth ordinary session, to be held on October 16, 2014.

104. The TWO noted that Mexico had been invited to provide further information on the SISNAVA software at the thirty-second session of the TWC, to be held from June 3 to 6, 2014, in Helsinki, Finland.

105. The TWO noted that the TC and CAJ had agreed with the proposed revision of document UPOV/INF/16 concerning the inclusion of information on the use of software by members of the Union.

106. The TWO noted that an expert from France would make a presentation on the AIM software at the thirty-second session of the TWC, based on the English translation of the software.

107. The TWO noted that the explanation of the software "Information System (IS) used for Test and Protection of Plant Varieties in the Russian Federation" was provided in the Annex to document TWO/47/7.

Recommendations on draft Test Guidelines

*(a) Test Guidelines to be put forward for adoption by the Technical Committee*

108. The TWO agreed that the following draft Test Guidelines should be submitted to the TC for adoption at its fifty-first session, to be held in Geneva on March, 2015, on the basis of the following documents and the comments in this report:

| Subject | Relevant document |
|---|---|
| *Aloe (*Aloe* L.) | TG/ALOE(proj.3) |
| *Campanula (*Campanula* L.) | TG/CAMPA(proj.4) |
| *Carnation (*Dianthus* L.) (Revision) | TG/25/9(proj.7) |
| *China Aster (*Callistephus chinensis* (L.) Nees) | TG/CALSP(proj.3) |
| *Cosmos (*Cosmos* Cav.) | TG/COSMOS(proj.6) |
| *Regal Pelargonium (*Pelargonium grandiflorum* hort. non Willd.) (Revision) | TG/109/4(proj.2) |

*(b) Test Guidelines to be discussed at the forty-eighth session*

109. The TWO agreed to discuss the following draft Test Guidelines at its forty-eighth session:

| |
|---|
| Abelia (*Abelia* R. BR.) |
| Aglaonema (*Aglaonema* Schott.) |
| *Calibrachoa (*Calibrachoa* (L.) Llave & Lex.) (Revision) |
| Coleus (*Solenostemon scutellarioides* (L.) Codd) |
| *Cordyline (*Cordyline* Comm. ex Juss.) |
| Freesia (*Freesia* Eckl. ex Klatt) (Revision) |
| *Grevillea (*Grevillea* R. Br. corr. R. Br.) |
| Guzmania (*Guzmania* Ruiz et Pav.) (Revision) |
| Hardy Geranium (*Geranium* L.) |
| *Petunia (*Petunia* Juss.) (Revision) |
| *Plectranthus (*Plectranthus* L'Hér.) |
| *Salvia (*Salvia* L.) |
| *Zinnia (*Zinnia* L.) |

110. The TWO agreed that the partial revisions of the Test Guidelines for Lavandula and Dianella would be discussed in 2016.

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

Date and place of the next session

112. At the invitation of the United Kingdom, the TWO agreed to hold its forty-eighth session in Cambridge, from September 14 to 18, 2015, with the preparatory workshop on September 13, 2015.

Future program

113. 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
   (a) Reports from members and observers (written reports to be prepared by members and observers)
   (b) Reports on developments within UPOV (oral report by the Office of the Union)
4. Molecular Techniques (document to be prepared by the Office of the Union)
5. TGP documents (document to be prepared by the Office of the Union)
6. Variety denominations (document to be prepared by the Office of the Union)
7. 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)
8. Uniformity assessment (document to be prepared by the Office of the Union)
9. Experience with new types and species (oral reports invited)
10. Improving the effectiveness of the Technical Committee, the Technical Working Parties and the Preparatory Workshops (document to be prepared by the Office of the Union)
11. Influence of different sources on vegetatively propagated material used in DUS examination (presentation to be prepared by the Netherlands and presentations invited)
12. Examples of different growing practice in DUS testing (presentation to be prepared by New Zealand and presentations invited)
13. Matters to be resolved concerning Test Guidelines adopted by the Technical Committee (if appropriate)
14. Discussion on draft Test Guidelines (Subgroups)
15. Recommendations on draft Test Guidelines
16. Guidance for drafters of Test Guidelines
17. Date and place of the next session
18. Future program
19. Report on the session (if time permits)
20. Closing of the session

Visit

114. On the afternoon of May 21, the TWO visited the facilities of Nini Limited, a cut rose company based in Naivasha. The TWO was welcomed by Mr. Philip Kuria, Post-harvest and Export Supervisor, Mr. Moses Wachira, Senior Production Supervisor and Ms. Faith Ndunge, Officer-in-Charge, KEPHIS, Naivasha. It was explained that rose production in Nini began in 1998 and had expanded to the current 44 hectares of

greenhouses and 600 permanent employees, 70% of which are women. Currently, 25 varieties from seven different breeders are being produced with 8 different colors on a scale of production of 2 million cut flowers per week. Mr. Kuria reported on the collaboration for market development with the breeders of the varieties used and highlighted the important role of plant variety protection for the success of the activities of the company.

*115. The TWO adopted this report at the close of the session.*

[Annexes follow]

ANNEX I

# LIST OF PARTICIPANTS

## I. MEMBERS

### AUSTRALIA

Nik HULSE, Senior Examiner of PBR, Plant Breeder's Rights Office, IP Australia, 47 Bowes Street, Phillip ACT 2606
(tel.: +61 2 6283 7982 e-mail: nik.hulse@ipaustralia.gov.au)

### BRAZIL

Luiz Claudio AUGUSTO DE OLIVEIRA, Federal Agriculture Inspector, National Plant Variety Protection Service (SNPC), Ministry of Agriculture, Livestock and Food Supply, Esplanada dos Ministérios, Bloco D, Anexo A, Sala 248, Brasilia , D.F.70043-900
(tel.: +55 61 3218 2938 fax: +55 61 3224 2842 e-mail: luiz.oliveira@agricultura.gov.br)

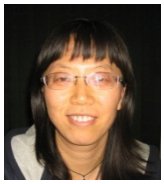
Ricardo ZANATTA MACHADO, Federal Agricultural Inspector, National Plant Variety Protection Service (SNPC), Ministry of Agriculture, Livestock and Food Supply, Esplanada dos Ministérios, Bloco 'D', Anexo A, 2o andar, Sala 248, 70043-900 Brasilia , D.F.
(tel.: +55 61 3218 2549 fax: +55 55 61 3224 2842 e-mail: ricardo.machado@agricultura.gov.br)

### CANADA

Michel CORMIER, Examiner, Plant Breeders' Rights Office, Canadian Food Inspection Agency (CFIA), Room 59-IE-334, 59, Camelot Drive, Ottawa Ontario K1A 0Y9
(tel.: +1 613 773 7135 fax: +1 613 773 7115 e-mail: michel.cormier@inspection.gc.ca)

### CHINA

ZHOU Jianren, Division Director, Office for the Protection of New Varieties of Plants, State Forestry Administration, 18 Hepingli East Street, Beijing 100714
(tel.: +86 10 8423 9106 fax: +86 10 8423 8883 e-mail: webmaster@cnpvp.net)



Chuanhong ZHANG (Ms.), Associate Researcher, Research Institute of Forestry, Chinese Academy of Forestry, Dongxiaofu No.2, Haidian, Beijing
(tel.: +86 10 628 89645 fax: +86 10 628 72015 e-mail: zhangchenator@163.com)

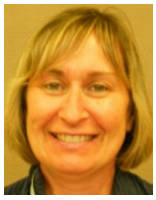
Xuhong YANG (Mrs.), Examiner, Division for the Protection of New Varieties of Plants, Development Center for Science and Technology, Room 707, Nongfeng Building No. 96, Dong San Huan Nan Lu, Chaoyang District, Beijing 100122
(tel.: +86 10 59199393 fax: +86 10 59199393 e-mail: yxh1990@yahoo.com)

EUROPEAN UNION

Laetitia DENECHEAU (Mrs.), Technical expert for ornamental plants, Community Plant Variety Office/Office Communautaire de Variétés Végétales, 3, Bd. Maréchal foch, CS 10021, 49101 Angers CEDEX 02, France
(tel.: +33 2 41 25 64 32 fax: +33 2 41 25 64 10 e-mail: denecheau@cpvo.europa.eu)

Jens WEGNER, Technical Expert for Ornamental Plants, Community Plant Variety Office (CPVO), 3, Boulevard Marechal Foch, CS 10121, 49101 Angers Cedex 02, France
(tel.: +33 2 4125 6453 fax: +33 2 4125 6410 e-mail: wegner@cpvo.europa.eu)

FRANCE



Francoise JOURDAN (Mrs.), Groupe d'étude et de contrôle des variétés et des semences (GEVES), 4790 Route des Vigneres, F-84250 Le Thor Cedex
(tel.: +33 490 78 66 60 fax: +33 490 78 01 61 e-mail: francoise.jourdan@geves.fr)

GERMANY

Andrea MENNE (Ms.), Head, Section DUS Testing Ornamentals, Bundessortenamt, Osterfelddamm 80, D-30627 Hannover
(tel.: +49 511 956 65723 fax: +49 511 956 65719 e-mail: andrea.menne@bundessortenamt.de)

JAPAN

Takayuki MIKUNI, Assistant Examiner, Plant Variety Protection Office, New Business and Intellectual Property Division, Food Industry Affairs Bureau, Ministry of Agriculture Forestry and Fisheries, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950
(tel.: +81 3 6738 6464 fax: +81 3 3502 6572 e-mail: takayuki_mikuni@nm.maff.go.jp)

Kenji NUMAGUCHI, Examiner, Plant Variety Protection Office, New Business and Intellectual Property Division, Food Industry Affairs, Ministry of Agriculture, Forestry and Fisheries (MAFF), 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950 (e-mail: kenji_numaguchi@nm.maff.go.jp)

Tetsuya TAKAHASHI, Senior Staff, DUS Test Division, NCSS, 2-2 Fujimoto, Tsukuba, Ibaraki-ken (e-mail: ttetuya@affrc.go.jp)

KENYA

James M. ONSANDO (Ph. d), Managing Director, Kenya Plant Health Inspectorate Service (KEPHIS), P.O. Box 49592, 00100 Nairobi
(tel.: +254 20 3536171/2 fax: +254 20 3536175 e-mail: director@kephis.org)

Simeon KIBET KOGO, General Manager - Quality Assurance, Kenya Plant Health Inspectorate Service (KEPHIS), P.O.Box 49592, 00100 Nairobi
(e-mail: skibet@kephis.org)

Simon Mucheru MAINA, Head, Seed Certification and Plant Variety Protection, Kenya Plant Health Inspectorate Service (KEPHIS), P.O. Box 49592, 49592-00100 Nairobi
(tel.: +254-203-597-201/2/3, tel.: +254 718 616 942, e-mail: smaina@kephis.org, smucheru@yahoo.com)

John Mark NG'ENY, KEPHIS Headquarters, P.O Box 49592-00200, Nairobi
(Tel: 254-020-3597201/0722-516221, e-mail: ngenyjma@kephis.org)

Edwin Mecha NYAMWAYA, KEPHIS Headquarters, P.O Box 49592-00200, Nairobi
(Tel: 254-020-3597201/0722-516221, e-mail: enyamwaya@kephis.org)

Stellamarris MULIKA, KEPHIS Headquarters, P.O Box 49592-00200, Nairobi
(Tel: 254-020-3597201/0722-516221, e-mail: smulika@kephis.org)

Gilbert ROP, KEPHIS Headquarters, P.O Box 49592-00200, Nairobi
(Tel: 254-020-3597201/0722-516221, e-mail: grop@kephis.org)

Alfred GWEYO, KEPHIS Nakuru, P.O Box 1679, Nakuru
(Tel: 254-020-2401198/9 or 0722-209503, e-mail: agweyo@kephis.org)

Chelangat TONUI, KEPHIS Nakuru, P.O Box 1679, Nakuru
(Tel: 254-020-2401198/9 or 0722-209503, e-mail ctonui@kephis.org)

Nicholas MBATHA, KEPHIS Kisumu, P.O Box 7094-40100, Kisumu
(Tel: 254-057-2024727/ 0728-607098, nmbatha@kephis.org)

Daniel KIVAYA, KEPHIS Kisumu, P.O Box 7094-40100, Kisumu
(Tel: 254-057-2024727/ 0728-607098, dkivaya@kephis.org)

Gilbert BETT, KEPHIS Mombasa, P.O Box 80126, Mombasa
(Tel: 254-041-2316002/3 or 0722-209501, email: gkiprono@kephis.org)

Thomas KOSIOM, KEPHIS Mombasa, P.O Box 80126, Mombasa
(Tel: 254-041-2316002/3 or 0722-209501)

Catherine LANGAT (Ms.), KEPHIS Embu, P.O Box 2129, Embu
(Tel: 254-068-31592/ 0728-600092, e-mail: clangat@kephis.org, catelangat2@gmail.com)

Peter BOR, KEPHIS Embu, P.O Box 2129, Embu
(Tel: 254-068-31592/ 0728-600092, e-mail: pbor@kephis.org)

Violet IMBAMI (Ms.), KEPHIS Kitale, P.O Box 249, Kitale
(Tel: 254-054-30908/ 0722-209502600092, vimbami@kephis.org)

Elizabeth MAGERO (Ms.), KEPHIS Kitale, P.O Box 249, Kitale
(Tel: 254-054-30908/ 0722-209502600092, e-mail: emagero@kephis.org)

Jane M. NGIGE (Ms.), Chief Executive, Kenya Flower Council (KFC), The greenhouse, 4th Flr. Adams Arcade, P.O. Box 56325 – 00200 Nairobi, Kenya
(tel.: 254—20 2679268; e-mail: kfc@wananchi.com, info@kenyaflowercouncil.org)

MEXICO

María Teresa B. COLINAS LEÓN (Mrs.), Fitotecnia, Departamento de Fitotecnia, Universidad Autónoma Chapingo (UACh), Matamoros 4, San Luis Huexotla, 56250 Texcoco
(tel.: +52 595 9284217 fax: +52 595 9521642 e-mail: lozcol@gmail.com)

José Merced MEJIA MUÑOZ, Fitotecnia, Universidad Autónoma Chapingo, CP 56230 Chapingo, Estado de México
(tel.: +52 595 95 47408 fax: +52 595 95 21642 e-mail: jmerced58@hotmail.com)

Amando ESPINOSA-FLORES, Universidad Autónoma Chapingo, CP 56230 Chapingo Estado de México
(tel.: +52 595 952 1500 ext. 6118 fax: +52 595 95 21642 e-mail: floresamando@yahoo.com.mx)

NETHERLANDS

Henk J. DE GREEF, Specialist DUS testing ornamentals, Team DUS Ornamental & Fruit Crops, Naktuinbouw, Sotaweg 22, NL-2371 GD Roelofarendsveen
(tel.: +31 646 713131 fax: +31 71 332 63 63 e-mail: h.d.greef@naktuinbouw.nl)

Katie W. PONT (Ms.), DUS ornamental researcher, Team DUS Ornamental and Fruit Crops, Naktuinbouw NL, Sotaweg 22, NL-2371 GD Roelofarendsveen
(tel.: +31 71 332 61 22 fax: +31 71 332 63 63 e-mail: k.pont@naktuinbouw.nl)

NEW ZEALAND

Christopher J. BARNABY, Assistant Commissioner / Principal Examiner for Plant Variety Rights, Plant Variety Rights Office, Intellectual Property Office of New Zealand, Plant Variety Rights, Ministry of Business, Innovation and Employment, Private Bag 4714, Christchurch 8140
(tel.: +64 3 9626206 e-mail: Chris.Barnaby@pvr.govt.nz)

REPLUBIC OF KOREA

Tae Hoon KIM, Research Scientist, Korea Forest Seed and Variety Center (KFSVC), Korea Forest Service, Korea Forest Service, 670-4 Suhoe-ri, Suanbo-Meon, Chungiu City, Chungcheongbukdo
(tel.: +82 43 850 3326 fax: +82 43 850 3390 e-mail: algae@forest.go.kr)

KWON Oh-woung, Division Director, Plant Variety Protection Division, Korea Forest Seed and Variety Center (KFSV), Korea Forest Service, 670-4 Suhoe-ri, Suanbo, Chungju, Chungbuk 380-941
(tel.: +82 43 850 3320 fax: +82 43 850 3390 e-mail: owkwon@forest.go.kr)

Sang-Geum LEE (Ms.), Agricultural Researcher, Head Office, Korea Seed and Variety Service (KSVS), 184, Anyang-ro, Manan-gu, Anyang-si
(tel.: 82 31 469 0224 / 82 31 448 1216 e-mail: sk81@korea.kr)

Jung-Nam SUH, Agricultural Researcher, Seobu Office, Korea Seed & Variety Service (KSVS), Hannangro 1177, Iksan City, Jeollabuk-do 570-892
(tel.: +82 63 861 2595 fax: +82 63 862 0069 e-mail: suhjn@korea.kr)

SOUTH AFRICA

Adriaan J. DE VILLIERS, DUS Examiner, Division of Variety Control, Directorate: Genetic Resources, Private Bag X11, Gezina 0031
(tel.: +27 83 4158080 e-mail: RIAANDV@daff.gov.za)

UNITED KINGDOM

Elizabeth M.R. SCOTT (Miss), Head of Crop Characterisation, National Institute of Agricultural Botany (NIAB), Huntingdon Road, Cambridge CB3 0LE
(tel.: +44 1223 342399 fax: +44 1223 277602 e-mail: elizabeth.scott@niab.com)

VIET NAM

Quoc Manh NGUYEN, Deputy Chief, Plant Variety Protection Office (PVPO), Department of Crop Production (DCP), 105 A6A, No. 2 Ngoc Ha Street, Ba Dinh District, Hanoi
(tel.: +84 4 38453182 fax: +84 4 7344967 e-mail: quocmanh.pvp.vn@gmail.com))

## II. OBSERVERS

MALAYSIA

Muhammad NASIR KUSHAIRI, Deputy Director, Crop Quality Control Division, Department of Agriculture Malaysia, Level 7, Wisma Tani, Lot 4G2, No. 30, Precinct 4, Persiaran Perdana, 62624 Putrajaya
(tel.: +60 3 88703453 fax: +60 3 88887639 e-mail: muhdnasirkushari@yahoo.com)

PHILIPPINES

Elvira Dapon MORALES (Ms.), Agriculturist II, Plant Variety Protection Office, National Seed Industry Council, Bureau of Plant Industry, NSQCS Building, Visayas Ave., Quezon City
(tel.: +63 2 9292543 fax: +63 2 9292543 e-mail: elviemorales@yahoo.com)

THAILAND

Thidakoon SAENUDOM (Ms.), Senior Agricultural Research Official, Plant Varieties Protection Office, Department of Agriculture, Phochakorn Building, 50 Phahonyothin Road, Ladyao, Chatuchak, 10900 Bangkok
(tel.: +66 2 940 7214 fax: +66 2 940 7214 e-mail: thidakuns@hotmail.com)

## III. ORGANIZATIONS

INTERNATIONAL COMMUNITY OF BREEDERS OF ASEXUALLY REPRODUCED ORNAMENTAL AND FRUIT PLANTS (CIOPORA)

Nellie HOEK (Ms.), Director, IP Department, Royalty Administration International, Naaldwijkseweg 350 A, 2691 PZ 'S-Gravenzande, The Netherlands
(tel.: +31 174 420171 fax: +31 174 420923 e-mail: nellie@royalty-adm-int.nl)

## IV. OFFICER

CHAIRPERSON

Nik HULSE, Chairperson

## V. OFFICE OF UPOV

Leontino TAVEIRA, Technical/Regional Officer (Latin America, Caribbean), International Union for the Protection of New Varieties of Plants (UPOV), Chemin des Colombettes 34, 1211 Genève 20, Suisse
(tel.: +41 22 338 9565 fax: +41 22 733 0336 e-mail: leontino.taveira@upov.int)

Ariane BESSE, Administrative assistant, International Union for the Protection of New Varieties of Plants (UPOV), Chemin des Colombettes 34, 1211 Genève 20, Suisse
(tel.: +41 22 338 9812 fax: +41 22 733 0336 e-mail: ariane.besse@upov.int)

[Annex II follows]

I. PRESENTATION BY MR. JAMES M. ONSANDO, MANAGING DIRECTOR, KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)

## Status of Plant Variety Protection in Kenya

**A presentation made at:**

**UPOV Technical Working Party for Ornamental Plants and Forest Trees (UPOV -TWO)",**

**Sawela Lodge, Naivasha – Kenya,**

**19th to 23rd MAY, 2014**

**James O. Onsando (PhD), Managing Director,**

**Kenya Plant Health Inspectorate Service (KEPHIS)**

**(website:)**
**www.Kephis.org**

## Preview

1. About KEPHIS
2. PVP Legislative background
3. DUS Examination for PVP
4. Regional and international Cooperation in PVP
5. Status of PBR Applications in Kenya
6. Impact of Plant Variety Protection in Kenya
7. Going Forward

## DUS Testing

## National Performance Trials (VCU)

## Seed Field Inspection

## Laboratory seed testing

## Analytical Chemistry Laboratory

## Greenhouse inspection of flowers

## Phytosanitary Inspection of Exports

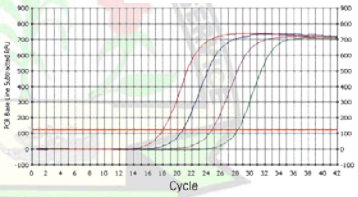
## Disease diagnostics - Quarantine

## Disease diagnostics - Quarantine

ELISA Reader

-80 Freezer

Real time PCR




Real time PCR Curve

## Molecular Laboratory

Diagnostics equipment in the molecular lab and analysts doing nucleic acids extraction

## PVP Legislative background

- Legislation for protection of plant varieties in Kenya is contained in the Seeds and Plant Varieties Act (1972), which became operational in 1975, revised in 1991 and amended in 2012.
- Official regulations to guide the implementation of PVP service were put in place in 1994.
- The office to administer the PVP was established in 1997 and has functioned under KEPHIS since 1998

## PVP Legislative background

- Kenya acceded to UPOV under the 1978 Convention in 13th May 1999
- The Seeds and Plant Varieties Act was amended in 2012 to incorporate aspects of the 1991 Act of the UPOV.
- The process of acceding to the 1991 Act of the UPOV convention has been initiated.
- Kenya grants PBRs for all plant genera and species

UPOV

## PVP Legislative background

- The enforcement of rights is by the owner of the rights. The Act has provision for the Plant Breeder whose rights are infringed to seek redress in the courts of law by means of damages, injunction, account or otherwise.
  - The Act also provides for Plant and Seed Tribunal to determine any dispute arising from PVP.
- Additionally, KEPHIS being the designated Authority for Phytosanitary, seed certification and PVP matters, has the added advantage of helping the enforcement of PBR through the licensing and certification process.

## DUS Examination for PVP

- Carried out by KEPHIS Using central testing locations based on crop agro-ecological zone.
- DUS examination centres are stationed in KEPHIS Headquarters and KEPHIS regional stations; KEPHIS Nakuru, KEPHIS Kisumu, KEPHIS Embu and KEPHIS Kitale
- Under special cases, there is testing on breeder's premise.
- International cooperation in DUS testing among UPOV member states or authorities is also explored.

## Regional and international Cooperation in PVP

UPOV Membership & Representations

- Kenya is a member of the International Union for Protection of New Plant Varieties (UPOV), 1978 convention.
- Membership in ARIPO

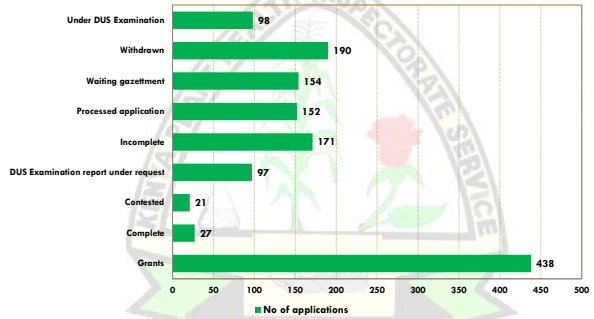
International cooperation

- Technical support e.g. training of examiners
- Exchange of test reports on low fees

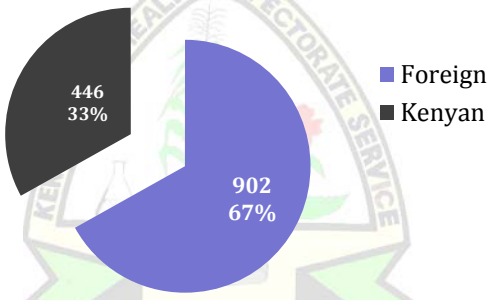
Mutual exchange of information

- Access to UPOV CD – Rom data base for search of variety denomination
- Exchange of journals on PVP

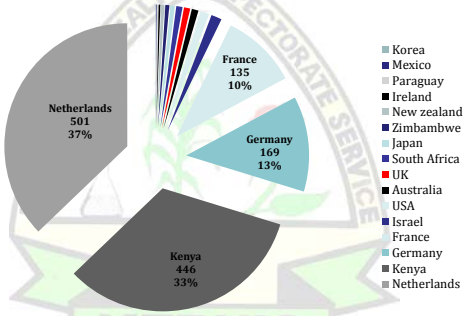
## Status of PBR Applications in Kenya



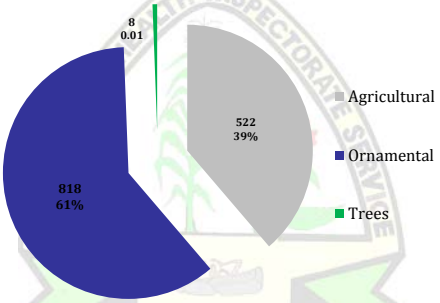
## PBR applications in Kenya by Origin



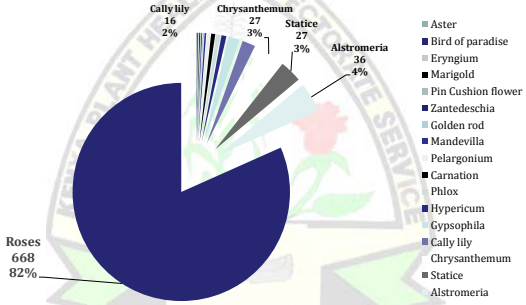

## Distribution of PBR applications By Country



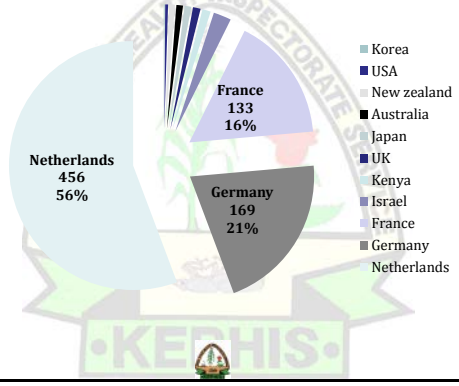

## Distribution of PBR applications per Varieties



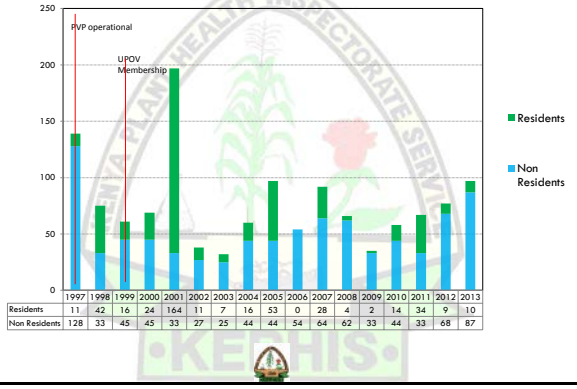

## Distribution of PVP applications by Ornamental Spp Varieties




## Distribution of PBR for Ornamental Spp by Country




## Number of PBR applications per Year

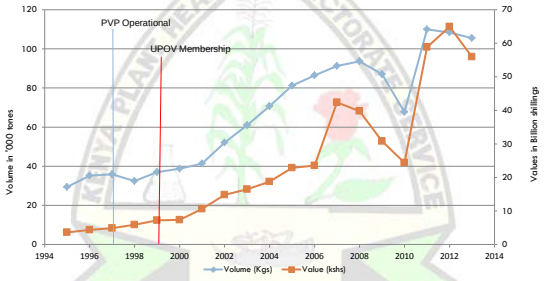



| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residents | 11 | 42 | 16 | 24 | 164 | 11 | 7 | 16 | 53 | 0 | 28 | 4 | 2 | 14 | 34 | 9 | 10 |
| Non Residents | 128 | 33 | 45 | 45 | 33 | 27 | 25 | 44 | 44 | 54 | 64 | 62 | 33 | 44 | 33 | 68 | 87 |

## Impact of Plant Variety Protection in Kenya

- Agriculture sector accounts for 22% of GDP.
- The national GDP from the horticulture sub-sector is 3% of which 1.6% is from the flower industry.
- The floriculture industry has recorded growth in volume and value of cut flowers exported every year.

## Impact of Plant Variety Protection in Kenya




CUT FLOWER EXPORTS 1995 - 2013

Source: HCDA

## Impact of Plant Variety Protection in Kenya

Cut Flower Industry

- Kenya leads in the export of rose cut flowers to the European Union (EU) with a market share of about 38%.
- The most popular flowers we have in Kenya are;
  - Roses
  - Carnations Spray and Standard
  - Statice
  - Alstromeria
  - Lilies
  - Hypericum

## Impact of Plant Variety Protection in Kenya

Employment creation

- It is estimated that over 500,000 people (including over 90,000 flower farm employees) depend on the floriculture industry.

## Impact of Plant Variety Protection in Kenya

- The increase in introduction of crop varieties in the country is as a result of enhanced variety description the latter made possible by:-
  - Readily available UPOV test guidelines for most of the Agricultural crops
  - Trained personnel by UPOV on development of national test guidelines
  - Collaboration and co operation between the breeders and the testing authority on variety description.

## Impact of Plant Variety Protection in Kenya

- Increased interest in Kenya by foreign breeders
  - Breeders outside Kenya but submit their varieties in the national protection system
  - International Breeders have incorporated their companies domestically to produce and market their varieties. Allowing for capacity building, funding, germplasm exchange and commercialization of varieties in Kenya.

## Impact of Plant Variety Protection in Kenya

Vibrant Flower Industry

- Domestic companies;
  - have access to enhanced Foreign Bred Materials of ornamental varieties developed by international breeders.
  - Domestic entities receive and market new materials from foreign breeders on their behalf or under license
  - Domestic Companies have also extended partnerships with farmers for on-farm production of newly bred varieties.

## Going forward

1. Facilities to test ornamental varieties (which form the bulk of PVP applications). Kenyan PVP titles for ornamentals have been based on results taken over from other UPOV member states or authorities
2. Capacity for Managing collections of test varieties.
3. Legislative review

   - Changing of laws takes a long time especially at this time when the process of implementation of a new constitution.

   -Comprehensive review of PBR regulations after acceding to UPOV 1991
4. Elaborate outreach programme to sensitize stakeholders on the objectives and processes of PVP

[Annex III follows]

PRESENTATION BY MS. JANE M. NGIGE, CHIEF EXECUTIVE
KENYA FLOWER COUNCIL (KFC)

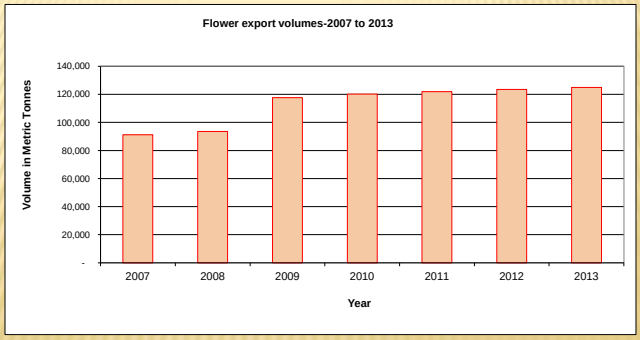
## UPOV TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES (TWO) 47TH SESSION NAIVASHA KENYA 19TH MAY '14

Jane Ngige (Mrs.)
Kenya Flower Council

## KFC PROFILE

- KFC is a private voluntary association of independent growers and exporters.
- formed to foster the responsible and safe production of cut flowers in Kenya.
- KFC membership;
  - ✓**Producer members = 74**
  - ✓**Associate members = 50**
  - ✓**Membership by exported volume ≈120,000 metric tonnes in 2013.**

## EXPORT VOLUME




## Role of KFC


## LINK TO UPOV

- Recognition of Kenya contribution to the development, utilization and commercialization of ornamentals
- Administration for compliance to UPOV in protection of innovators
- Recognizing the role of "TWO" what is the role of industry and how may it influence outputs at policy and at industry level
- How can industry be involved for enhanced productivity and competitiveness

## .....

- Policies and systems geared to invention, and benefit sharing
  - Cost of destruction of non compliance
  - % cost of breeders rights, its impact on businesses and recourse
  - Incentives for compliance
  - Impact on biodiversity

Opportunities for capacity building to interpret benefits



[Annex IV follows]

ANNEX IV

LIST OF LEADING EXPERTS

**DRAFT TEST GUIDELINES TO BE SUBMITTED TO THE TECHNICAL COMMITTEE IN 2015**

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

**by July 4, 2014**

| Species | Basic Document | Leading expert(s) | Interested experts (States/Organizations)[1] |
|---|---|---|---|
| *Aloe (*Aloe* L.) | TG/ALOE(proj.3) | Mr. Adriaan de Villiers (ZA) | AU, CN, DE, KE, MX, NL, Office |
| *Campanula (Campanula L.) | TG/CAMPA(proj.4) | Miss Elizabeth Scott (GB) | CA, CN, DK, JP, NL, NZ, QZ, ZA, Office |
| *Carnation (Dianthus L.) (Revision) | TG/25/9(proj.7) | Mr. Henk de Greef (NL) | BG, CO, GB, IL, JP, KE, KR, MX, NZ, QZ, ZA, Office |
| *China Aster (*Callistephus chinensis* (L.) Nees) | TG/CALSP(proj.3) | Mr. Kenji Numaguchi (JP) | CN, DE, GB, MX, Office |
| *Cosmos (*Cosmos* Cav.) | TG/COSMOS(proj.6) | Mr. Takayuki Mikuni (JP) | GB, HU, KR, MX, NZ, RO, Office |
| *Regal Pelargonium (Pelargonium grandiflorum hort. non Willd.) (Revision) | TG/109/4(proj.2) | Ms. Andrea Menne (DE) | AU, CA, JP, KR, MX, QZ, ZA, Office |

[1] for name of experts, see List of Participants

**DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWO/48**
(* indicates possible final draft Test Guidelines)
**New draft to be submitted to the Office of the Union**
**before August 3, 2015**

**(Guideline date for Subgroup draft to be circulated by Leading Expert: July 6, 2015**
**Guideline date for comments to Leading Expert by Subgroup: June 8, 2015**

| Species | Basic Document | Leading expert(s) | Interested experts (States/Organizations)[2] |
|---|---|---|---|
| Abelia (*Abelia* R. BR.) | TG/ABEL(proj.2) | Mrs. Françoise Jourdan (FR) | GB, JP, KR, NZ, QZ, Office |
| Aglaonema (*Aglaonema* Schott.) | TG/AGLAO(proj.4) | Mr. Kenji Numaguchi (JP) | AU, KR, NL, NZ, QZ, ZA, Office |
| *Calibrachoa (*Calibrachoa* (L.) Llave & Lex.) (Revision) | TG/207/2(proj.1) | Ms. Andrea Menne (DE) | AU, CA, JP, KR, MX, NZ, QZ, ZA, Office |
| Coleus (*Solenostemon scutellarioides* (L.) Codd) | New | Mr. Takayuki Mikuni (JP) | CA, DE, GB, QZ, Office |
| *Cordyline (*Cordyline* Comm. ex Juss.) | TG/CORDY(proj.2) | Mr. Chris Barnaby (NZ) | AU, GB, MX, NL, QZ, ZA, Office |
| Freesia (*Freesia* Eckl. ex Klatt) (Revision) | TG/27/7(proj.1) | Mr. Henk de Greef (NL) | JP, KR, QZ, ZA, Office |
| *Grevillea (*Grevillea* R. Br. corr. R. Br.) | TG/GREVI(proj.2) | Mr. Nik Hulse (AU) | GB, MX, NZ, Office |
| Guzmania (*Guzmania* Ruiz et Pav.) (Revision) | TG/182/3 | Mr. Henk de Greef (NL) | BR, CN, JP, QZ, Office |
| Hardy Geranium (*Geranium* L.) | New | Ms. Elizabeth Scott (GB) | CA, DE, GB, JP, NL, NZ, QZ, Office |
| *Petunia (*Petunia* Juss.) (Revision) | TG/212/2(proj.1) | Ms. Andrea Menne (DE) | AU, CA, CN, JP, KR, MX, NZ, QZ, ZA, Office |
| *Plectranthus (*Plectranthus* L'Hér.) | TG/PLECT(proj.1) | Mr. Adriaan de Villiers (ZA) | AU, DE, NL, QZ, Office |
| *Salvia (*Salvia* L.) | TG/SALVI(proj.2) | Mr. Tetsuya Takahashi (JP) | AU, CA, CN, FR, GB, IL, KR, MX, NZ, QZ, ZA, Office |
| *Zinnia (*Zinnia* L.) | TG/ZINNIA(proj.4) | Mr. Jose Mejía Muñoz (MX) | CN, GB, IL, JP, KR, Office |

[End of Annex IV and of document]

[2] for name of experts, see List of Participants