



TWO/36/6

ORIGINAL: English

DATE: September 26, 2003

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
FOR
ORNAMENTAL PLANTS AND FOREST TREES**

**Thirty-Sixth Session
Niagara Falls, Canada, September 22 to 26, 2003**

REPORT ON THE CONCLUSIONS

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

Opening of the Session

1. The Technical Working Party for Ornamental Plants and Forest Trees (TWO) held its thirty-sixth session in Niagara Falls, Canada, from September 22 to 26, 2004. The list of participants is reproduced in Annex I to this report.
2. The TWO was welcomed by Ms. Valerie Sisson, Commissioner, Plant Breeders' Rights Office, Canada.
3. The session was opened by Mr. Chris Barnaby (New Zealand), Chairman of the TWO, who welcomed the participants, and in particular new participants, to the TWO.

Adoption of the Agenda

4. The TWO adopted the revised agenda as reproduced in document TWO/36/1 Rev., after agreeing to review the draft Test Guidelines for Amaranth at the invitation of the Technical Working Party for Agricultural Crops (TWA)

Short Reports on Developments in Plant Variety Protection

5. The TWO received oral reports from the participants on developments in plant variety protection in their respective countries and organizations and received a presentation on plant variety protection in Canada.

6. The TWO received an oral report from the Office of the Union on the latest developments within UPOV. It noted the report on the work of the *Ad hoc* Working Group on Variety Denominations (WG-VD) and agreed to propose that the Chairman of the TWO should participate in the WG-VD.

Molecular Techniques

7. The TWO received an oral report from the Office of the Union on the latest developments concerning the use of molecular techniques in DUS Testing within UPOV, based on document TC/38/14 Add.-CAJ/45/5 Add.

8. The TWO received an oral report from the Chairman of the Rose Crop Subgroup. It was reported that the meeting of the Rose Crop Subgroup, planned to take place prior to the meeting of the TWO, had been postponed because of insufficient papers. The TWO noted that a suitable date for a future meeting would be arranged when more papers were available.

Project to Consider the Publication of Variety Descriptions

9. The TWO considered document TWO/36/2 and received an oral report from Ms. Andrea Menne, Coordinator of the model study on Petunia.

10. The TWO noted that the first phase of the model study on Petunia had been based on the characteristics included in the Technical Questionnaire of the Test Guidelines. Furthermore, it noted that there was a high degree of harmonization in the variety descriptions for the selected characteristics despite the fact that the varieties were described before the Test Guidelines were introduced. With regard to the next phase of the study, the TWO agreed that descriptions should be sought for the same varieties and characteristics, including a request for color photographs, from further countries. The additional countries would include Israel, Japan and Mexico, and an invitation would be made for other countries to contribute. The request for descriptions would also seek information on the growing environment in which the varieties were described. Consideration would be given to the presentation of states of expression of the color characteristics in the form of color groups, in addition to RHS Colour references.

11. With regard to the possibility of conducting a model study on Rose, it was confirmed that there were an insufficient number of countries conducting DUS trials on rose to make this a useful study. Instead, it was proposed that a study should be made on *Alstroemeria*, with Mr. Joost Barendrecht (Netherlands) as Coordinator, and the interested countries identified at the meeting as being Canada, Japan and the Netherlands. Other countries would also be invited to participate.

Review of UPOV Information Databases

12. The TWO received an oral report from the Office of the Union on the latest developments in the UPOV databases based on document TWO/36/3.

13. To check the codes presented in Annexes I and II of document TWO/36/3, it was agreed that all experts should check species in which they had particular expertise and, in addition, the experts listed below would check the pages of both Annexes as shown below, with all comments to be sent to the Office of the Union by the end of November 2003:

Mr. Joost Barendrecht (NL)	pages 1 to 7
Mr. Baruch Bar-Tel (IL)	pages 8 to 14
Ms. Andrea Menne (DE)	pages 15 to 21
Ms. Elizabeth Scott (GB)	pages 22 to 28
Mrs. Sandy Marshall (CA)	pages 29 to 34.

Survey on “Testing of Seed-Propagated Ornamental Varieties”

14. The TWO noted the results of the survey as presented in document TWO/36/4. It agreed that the survey should not be repeated in 2004, but that participants should report on relevant developments in their report on developments in plant variety protection under that agenda item.

Uniformity Requirements for Variegated Varieties

15. The TWO received a presentation from Mr. Ton Kwakkenbos (CPVO), based on document TWO/36/5.

16. It was agreed that the Office of the Union, in conjunction with the Chairman, would prepare and issue a questionnaire seeking information on the proportion of plants which would need to be affected by a mutation or variation in order to be considered to be an off-type, e.g. whether a single atypical leaf or petal would render the plant an off-type. The TWO agreed that, if acceptable to the Technical Working Party for Fruit Crops (TWF), this questionnaire should also be sent to members of the TWF to obtain information on how the matter is handled for fruit crops. The results of the survey would be presented to the TWO at its thirty-seventh session in 2004 and would be used as a basis for further discussion on how to consider variegated varieties in the examination of uniformity.

TGP Documents*TGP/7 Draft 3: Development of Test Guidelines*

17. The TWO agreed to propose the following amendments to document TGP/7 “Development of Test Guidelines” Draft 3:

2.1.2 to be revised to reflect the fact that the draft Test Guidelines are no longer sent to the international professional organizations as a separate step.

2.2.7.1 to include an additional sentence, clarifying that it is not the role of the

TC-EDC to conduct a substantive technical review of the Test Guidelines.

2.5.2.1 / 2.5.3.2 / 2.5.4 as proposed by the TWV, it should be made more clear that this is an example of a route and not the typical route for the adoption of Test Guidelines. A second simpler example for each section should be developed.

4.2.1 noted that the reference to Annex 3 would be changed to Annex 4.

4.3.2 noted that the word “categories” would be replaced by “types of expression”.

4.4.3.2.2 agreed with the proposal of the TWA that this should read “In cases where there is a discontinuous separation between absence and presence, the characteristic should have the states absent (note 1) and present (note 9).

4.5.2 to be deleted

4.5.4.2.1.2 third sentence to be amended to read “Where necessary, the even states can be worded by combining the wording of the preceding and following states, in that order, by using the word “to”, e.g. “very weak” to “weak (2)” as proposed by the TWV.

4.5.5.1 to be explained that the condensed range should only be used for the given type of examples, where one end of the scale is fixed.

4.6.2 to be deleted

4.6.3.3 to be amended as proposed by the TWV, such that state 2 would be worded as “green”, rather than “medium green” and wording in the first sentence to be modified accordingly.

4.6.3.4 reference for mathematical determination of plane shapes to be given as “A.E. Radford: Vascular Plant Systematics, adopted from Taxon, 1962”.

Annex 1: TG Template

Cover page field for UPOV code to be provided.

Cover page field for information on the drafting country to be provided.

Cover page the purpose of the Test Guidelines should be included on the cover page. Words “certain of” on the first line to be deleted and reference TG/1/3 to be added after “General Introduction,” as suggested by the TWC.

3.1 the highlighted text shown as the first sentence to be deleted (see comments on Annex 1, 4.1.2)

3.2 second sentence of 3.2 to read: “If any characteristics of the variety, which are relevant for the examination of DUS, cannot be observed at that place, the variety may, where considered appropriate by the authority, be tested at an additional place”, as proposed by the TWA.

4.1.2 to be retained, but to be amended. The TWO considered the wording proposed by the TWA (“One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic by at least two independent observations. However, the differences observed between varieties could be so clear that a second growing cycle may not be necessary. In addition, in some circumstances the influence of the environment is not such that a second growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent.”) implied that a single growing cycle would be an exception, whereas it was the normal situation in ornamental varieties. It proposed that any amended wording should reflect the fact that a single growing cycle was the normal situation in ornamental varieties.

TQ 7.2 format and wording to follow style in TQ 7.1.

TQ 7.3 Guidance Note to be developed for introducing a section on “use” of the variety.

TQ 9 first sentence to read “Information on plant material to be examined / submitted for examination.”

TQ 9.2(b) section in brackets to read “(e.g. growth retardant, pesticide)”

TQ 9.3 to be moved from TG Template to Annex 2 as Additional Standard Wording and word “disease” to be replaced by “pathogen”.

Annex 2: Additional Standard Wording (ASW) for the TG Template

ASW 10 supported proposal of TWV to add at the beginning “Where appropriate, or in cases of doubt ...”.

ASW 15 4.1.1(c) word “totally” to be deleted.

ASW 15 4.1.3 to read “Discovery and development”.

ASW 15 second option to be provided without 4.1.2 “Mutation” section, as proposed by the TWA.

ASW 16 the retention of the option to include a request for a photograph of the variety to be provided with the Technical Questionnaire was strongly supported. The TWO noted the view of the International Seed Federation (ISF), that “a picture could very often give a wrong feeling of certainty whilst it is often useless and misleading” and its opinion that “The interest of a picture would depend on the stage of development of the plant, the location of the trial etc. It could also be useless without a picture of the checks and other varieties”. The TWO noted that authorities were aware of the limitations of photographs and that a request for a photograph was only included in those Test Guidelines where it was necessary to help the authority to conduct its examination of distinctness in a more efficient way.

Annex 3: Guidance Notes for the TG Template

- GN 1 “Latin” name to be replaced by “botanical” name, as proposed by the TWV.
- GN 5 Words “(not in italics)” to be deleted.
- GN 7 agreed with the proposal of the TWA, for a review by the TC, of the quantity of plant material to be supplied, in existing Test Guidelines on the basis of crop type to provide some general guidance for drafters of Test Guidelines.
- GN 11 agreed with the proposal of the TWA, that the TWC should include, in TGP/10, some practical guidance for choosing an appropriate uniformity standard, based on uniformity standards used in the existing Test Guidelines.
- GN 12 agreed with the TWA that paragraph 3 should read: “Where a grouping characteristic is included in the Table of Characteristics, it should, in general, receive an asterisk in the Table of Characteristics and be included in the Technical Questionnaire. A particular exception to this general rule is for disease resistance characteristics, where particular care should be given before allocating an asterisk.”
- GN 13 (a)(i) first sentence on page 55 to read “Example varieties are important to adjust the description of the characteristics for the year and location effects, as far as possible”, as proposed by the TWA.
- GN 13 (a)(ii) fifth line on page 56, the word “environmental” to be replaced by “location”. Ninth line on page 56, the word “comparable” to be replaced by “the same”, as proposed by the TWA.
- GN 13 (b)(i) the words “or addition” after “alternative”, as proposed by the TWA.
- GN 13 (b)(ii) agreed with the TWA that for the flow diagram on page 58: dotted line section to be presented as a separate diagram; bottom left-hand box to read only “Example varieties required”; and a separate diamond box to be introduced on the right-hand side, after “Yes e.g. QN (PQ)”, asking if the environment is controlled.
- GN 13 (e) first bullet point to be amended to read:
- “Quantitative characteristics:
- (a) 1-9 scale: to provide example varieties for at least three states of expression (e.g. (3), (5), (7)) although, in exceptional cases, example varieties for only two states of expression may be accepted;
- (b) 1-3 scale (“condensed range”): to provide, example varieties for at least two states of expression (e.g. (1) and (2))
- GN 13 (h)(i) The TWO agreed that the first paragraph should be rewritten to emphasize the value of regional sets of example varieties for harmonization within regions. It should also indicate that, where appropriate, correlation between sets of

regional example varieties could be established, but, that in some cases such correlation was unnecessary (see paragraph 3).

GN 13 (h)(i) The TWO supported an Option 3 approach (UPOV Website) on the basis that it was modified as proposed by the TWA, namely that:

- (a) the relevant TWP would agree the contributors of regional lists of varieties, to ensure cohesion;
- (b) where known that regional sets of example varieties were being developed, and would be included on the UPOV Website, this should be stated in the Test Guidelines; and
- (c) the lists would be presented in the format suggested in Option 2 of GN 13 (h)(i).

GN 25 (c) to be reworded to clarify that it would not be necessary to make reference to preceding characteristics in cases where it was obvious that the subsequent characteristics only applied to certain types of variety, e.g. in the case degrees of presence of anthocyanin, following absence / presence.

GN 25 (d) to be moved to GN 14.

GN 26 brief explanation to be provided, indicating that the wording of the states should be according to how the wording of the variety description should appear e.g. avoid states which include a range such as “10-15%” and, where these are necessary for explaining the state, provide these elements in Chapter 8 explanations.

GN 26 (c)(ii) reference to be made to the section on color in TGP/14.2 “Botanical Terms”.

GN 26 (c)(iii) first sentence to be deleted.

GN 26 (d) to be deleted, because not appropriate in all cases.

GN 30 second sentence in highlighted paragraph to read “Furthermore, the characteristics contained in the Test Guidelines can be formulated in a different way, if breeders would then be able to describe them more precisely and the information would be useful for performing the test.”

GN 31 The TWO strongly supported the provision of examples in the Test Guidelines.

Explanation of the “Schematic Overview of TGP/3 (Varieties of Common Knowledge), TGP/4 (Management of Variety Collections) and TGP/9 (Examining Distinctness)”

18. The TWO considered the schematic overview of TGP/3, TGP/4 and TGP/9 as presented in document TC/39/6 Add. and concluded as follows:

4.2 Management of Variety Collections: A section should be introduced to explain the ways in which cooperation can be used in the management of variety collections.

9.4 / 9.5 The TWO agreed with the restructuring proposals made by the TWA, with regard to sections 9.4 and 9.5. It also recommended that the categorization of varieties, according to types of propagation, should follow the categorization established in the General Introduction.

9.6 It was agreed that the title of section 6 should be amended to avoid any inference that there were different approaches to examining distinctness.

TGP/4.2: Variety Collections for Tree and Perennial Species

19. The TWO considered document TGP/4.2 Draft 1. It noted that the content of this document would be amalgamated into the overall draft of TGP/4, as explained in document TC/39/6 Add., and accordingly did not comment on the presentation within the document. It concluded that the consolidated draft of TGP/4 would need to elaborate clearly what was meant by the terms “permanent” and “variety collection”, in order to avoid confusion. It also concluded that the text would need to be reviewed to ensure that the coverage of herbaceous perennials would be adequately addressed.

TGP/13 “Guidelines for New Types and Species”

20. The TWO noted that the leading expert had advised, through the UPOV Office, that a new restructured version of document TGP/13 Draft 1 was under development and agreed that it would be more appropriate to delay comment until this new version was available. It also noted that this TGP document was of particular relevance to the TWO and proposed that the TWO take over the responsibility for the development of the document. On this basis it agreed that, with the approval of the existing leading expert, the leading expert from the TWO would be Mr. Ton Kwakkenbos (CPVO) and that the subgroup of interested experts from the TWO would be Canada, Israel, Mexico, the Netherlands, New Zealand and the United Kingdom. A new draft would be prepared for the TWO for its thirty-seventh session.

TGP/14.2.3 “Botanical Terms: Color”

21. The TWO considered document TGP/14.2.3 Draft 1, as presented by the expert from Germany. It concluded that a new draft should be produced, containing an explanation of the background to the document and its purpose, and that the new draft should cover previous versions of the RHS Colour Chart. The TWO noted that the document was not appropriate for use on decisions concerning variety denominations involving colors and noted that any matters concerning the acceptability of colors in variety denominations should be referred to the *Ad hoc* Working Group on Variety Denominations (WG-VD), recalling, in particular, that it had proposed that the Chairman of the TWO should participate in the WG-VD (see paragraph 6 of this document).

Discussions on draft Test Guidelines in Subgroups

(a) "Final" draft Test Guidelines

Verbena

22. The subgroup, chaired by Mr. Joost Barendrecht (Netherlands), agreed the following changes to document TG/VERBEN(proj.2):

7. *Table of Characteristics*

All characteristics to receive an (*)

Spelling of example variety "Wynena" to be corrected throughout

Chars. 11, 12	spelling of "coloration" to be corrected
Char. 12	example varieties to be provided
Char. 15	to have the order of states: broad ovate (1); broad obovate (2); cylindrical (3)
Chars. 20, 21	hyphen to be deleted from "corolla tube"
Char. 22	to read "Corolla lobe: curvature of longitudinal axis". State 2 to read "straight"
Char. 23	to read "Corolla lobe: undulation of margin"
Char. 26	to read " <u>Shaded varieties only</u> : Corolla: distribution of color"
Char. 30	"QN" to be presented in bold font
Char. 31	state 1 to read "whitish green"
Char. 32	state 3 to read "no change". More example varieties to be provided.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

Ads 8, 9	font size to be corrected
Ad. 15	states of expression to be corrected.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics.

Alstroemeria (Revision)

23. The subgroup, chaired by Mr. Joost Barendrecht (Netherlands), agreed the following changes to document TG/ALSTRO(proj.1):

2.3, 3.4.1 Number of plants for vegetatively propagated varieties to be amended from 4 to 8.

3.3.2 Month of planting to be changed from "October" to "November".

3.5 To have two sections:

“3.5.1 Vegetatively propagated varieties: Unless otherwise indicated, all observations on single plants should be made on 8 plants or parts taken from each of 8 plants and any other observations made on all plants in the test.”

“3.5.2 Seed-propagated varieties: Unless otherwise indicated, all observations on single plants should be made on 50 plants or parts taken from each of 50 plants and any other observations made on all plants in the test.”

4.2.2 Second sentence to read “In the case of a sample size of eight plants, one off-type is allowed”.

7. *Table of Characteristics*

Chars. 1, 5-21, 23, 25, 26 (*) to be added

Chars. 7 to 24 to have the note (a) added.

Char. 1 state 1 to read “short”

Char. 5 to read “Umbel: number of branches”. (+) to be added with illustration showing inflorescence structure and parts.

Char. 6 to read “Umbel: length of branches”.

Char. 8 to read “Flower: ground color”. To be indicated as “PQ”.

Char. 12 “main” to be replaced by “ground”.

Char. 13 to read “Outer tepal: presence of over color”. (+) to be added.

Char. 14 to read “Outer tepal: over color”.

Char. 15 to be indicated as “QL”.

Char. 16 example varieties necessary to illustrate the characteristic.

Char. 18 “inner” to be replaced by “upper”. (+) to be added.

Char. 19 “main” to be replaced by “ground”.

Char. 20, 21 “(basal zone excluded)” to be deleted.

Char. 22 to be deleted.

Char. 23 “Stamens” to read “Stamen”. To be indicated as “PQ”.

Char. 24 to be indicated as “QL”.

Char. 25 to read “Anther: color at the start of dehiscence”. State 3 to read “orange”.

Char. 26 to read “Ovary: anthocyanin coloration”.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

Ad. 6 illustration to be provided.

Ad. 7 explanation to be provided indicating that this characteristic is to be observed at the opening of the first flower on the umbel branch.

Ad. 13 to specify that the color excludes stripes and greenish color at tip.

Ad. 18 illustration of middle zone to be provided.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics.

Catharanthus roseus

24. The subgroup, chaired by Mr. Tadao Mizuno (Japan), agreed the following changes to document TG/CATHAR(proj.2):

Title page German common name to read “Zimmerimmergrün”. Spelling of Spanish common name to be amended to read “Vinca pervinca”.

2.2 to read “... seeds or rooted cuttings”.

2.3 to read “-seed propagated varieties: 600 seeds, preferably in six portions”

3.3.2 to be deleted.

3.4.2, 3.4.3 “, which would be divided into two replicates” to be deleted.

3.5.1 to read “For seed-propagated varieties, unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test.”

3.5.2 to read “For vegetatively propagated varieties, unless otherwise indicated, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.”

4.2.2 to read “For the assessment of uniformity of seed-propagated varieties, which are self-pollinated, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 40 plants, two off-types are allowed.”

4.2.3 to read “For the assessment of uniformity of seed-propagated varieties, which are cross-pollinated, or which are hybrids, the recommendations in the General Introduction for cross-pollinated, or hybrid varieties, should be followed, as appropriate.”

4.2.4 to read “For the assessment of uniformity of vegetatively propagated 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 20 plants, one off-type is allowed.”

7. *Table of Characteristics*

Char. 1 to read “Plant: growth habit”, with the states: upright (1); semi-upright (2); horizontal (3). Example varieties to be Kermesiana (1); Dawn Carpet (3). (+) and explanation to be deleted. To be indicated as “QN”

Char. 3 to have the notes 3, 5, 7.

Char. 4 spelling of anthocyanin to be corrected. (*) to be added.

Char. 7 (*) to be deleted.

Char. 10 to be indicated as “QL”.

- Char. 11 to read ‘Non-variegated varieties only: Leaf: intensity of green color’. Example variety ‘Papion Silver Blue’ to be added for state 3.
- Char. 14 to be indicated as ‘PQ’. To have the states: free (1); touching (2); slightly overlapping (3); strongly overlapping (4), with the following example varieties: Kururi White (1); Flappe Coconut (2); Flappe Lilac (3); Peppermint Cooler (4).
- Char. 15 note 2 to be deleted.
- Char. 16 spelling of example variety ‘Peppermint Cooler’ to be corrected.
- Char. 17 to read ‘Flower: size of eye zone relative to flower size’. To have the example varieties: Peppermint Cooler (3); Pretty in Pink (5); Dawn Carpet (7).
- Char. 18 to read ‘Flower: number of colors of eye zone’.
- Char. 19 * to be deleted. Spelling of ‘diffuse’ to be corrected.
- Char. 20 to read ‘Flower: color of inner eye zone’. Note 2 to be deleted.
- Char. 21 to read ‘Varieties with more than one eye zone color only: ...’. Note 2 to be deleted.
- Char. 22 additional color states to be added to the current states.
- Char. 23 to be deleted.
- New Char. to read: ‘Petal: width’ with the states: narrow (3); medium (5); broad (7). To be indicated as ‘QN’.
- Char. 24 (*) to be added.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

- Ad. 1 to be deleted.

9. *Literature*

Following reference to be added: ‘Marieke van Bergen, Wim Snoeijer: Catharanthus G. Don. The Madagascar periwinkle and related species. Wageningen Agricultural University Papers. 1996.’.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

- 5.4 (15) to be split into:

5.4 i ‘Flower: main color of upper side’

5.4 ii ‘Flower: main color of upper side’, with the states white (1); pink (2); red (3); purple (4) and additional color states to be added to the current states.

- 6 example to read ‘Plant: height / short / medium’.

Clematis

25. The subgroup, chaired by Mrs. Sandy Marshall (Canada), agreed the following changes to document TG/CLEMAT(proj.2):

2.3, 3.4, 3.5 to be amended to 8 plants

4.2.2 to read “For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of eight plants, one off-type is allowed.”

7. *Table of Characteristics*

- Char. 3 further example varieties to be provided for states 1 and/or 2.
- Char. 4 to read ‘Climbing varieties only: Plant: vigor’ and to have the notes 3,5,7 rather than 1,2,3.
- Char. 7 to be indicated as “QL”.
- Char. 8 to read “Varieties with compound leaves only: Leaf: predominant number of leaflets” with the states: three (1); five (2); seven (3).
- Char. 9 * to be deleted.
- Char. 10 * to be deleted.
- Char. 12 * to be deleted.
- Char. 15 state “present” to have note 9.
- Char. 21 to be deleted.
- Char. 22 to be deleted.
- Char. 23 state 2 to read “clustered”.
- Char. 24 to read “Inflorescence: length of peduncle”.
- Char. 25 to have the states: upwards (1); outwards (2); downwards (3).
- Char. 32 to be indicated as “QN”.
- Chars. 33 to 51 explanation (e) to be provided in the form of an illustration indicating the sepal.
- Chars. 33, 34 * to be deleted.
- Char. 38 to read “Sepal: reflexing of apex”.
- Char. 40 wording in brackets in state 1 to be deleted..
- Char. 41 state 1 to read “one”.
- Char. 43 example varieties to be provided.
- Char. 48 to be deleted.
- Char. 52 to read ‘Presence of petaloids’.
- Char. 53 to read ‘Petaloids: number’.
- Char. 54 to read ‘Petaloids: main color of upper side’.
- Char. 55 to have the states for 10 to 12 as follows: light violet (10); medium violet (11); brown (12).
- Char. 56 to have the states for 8 and 9 as follows: violet (8); brown (9).

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

- Ad. 29 to be provided.
- Ad. 36 diagrams to be amended to show upper surface.
- Ad. 37 title to be corrected in accordance with the Table of Characteristics.
- Ad. 38 to be provided.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

- 1 box to be inserted for indication of species / group.
- 5.2 comma to be deleted after “Frances Rivis”.
- 6 example to read ‘Flower: diameter / small / medium.

Hypericum

26. The subgroup, chaired by Mr. Joost Barendrecht (Netherlands), agreed the following changes to document TG/HYPERI(proj.2):

Title page Latin name in title box and alternative names to read “*Hypericum hircinum* L., *H. androsaemum* L. and *H. x inodorum* Mill. Common names to be deleted.

7. *Table of Characteristics*

- Chars. 11, 17, 20, 21, 27, 36, 38, 39 example varieties to be provided.
- Char. 1 example varieties Excellent Flair (1), Apricot Beauty (2), Flamingo Fantasy (3) to be added.
- Char. 2 example varieties Bosajol (3), Excellent Flair (5) and Kolmfa (7) to be added.
- Char. 3 example varieties Bosajol (3), Early Fruit (5), Kolmfa (7) to be added.
- Char. 5 example varieties Bosaney (3), Kolmgia (5), Excellent Flair (7) to be added.
- Char. 6 example varieties Magical Green (3), Kolmgia (5), Bosajum (7) to be added.
- Char. 7 example varieties Kolmfa (3), Bosaenv (5), Kolmbeau (7) to be added.
- Char. 12 to be indicated as “QN” and have the states 3, 5, 7.
- Char. 13 to read “Leaf: angle with branch” with the states: very acute (1); moderately acute (2); weakly acute to right-angled (3).
- Char. 15 to have the states: acute (1); obtuse (2); rounded (3).
- Char. 16 to have the notes 1 and 9.
- Char. 18 example varieties Bosasu (3), Excellent Flair (5), Kolmgia (7) to be added. (+) and illustration to be provided.
- Char. 19 example varieties Bosasu (3), Excellent Flair (5), Kolmgia (7) to be added. (+) and illustration to be provided.
- Char. 20 to be indicated as “QN”.
- Char. 21 (+) to be deleted. To read “Flower: size”.
- Chars. 22, 23 (+) to be added with explanation that the largest sepal is to be observed. Words “of largest” to be deleted.
- Chars. 22 to 26 “Sepals” to read “Sepal”.
- Char. 26 to read “Sepal: recurvature” and to have the states: absent or weak (1); moderate (2); strong (3).
- Char. 28 “Anthers” to read “Anther”.

- Char. 30 example varieties Rosemary (3), Bosajum (5), Excellent Flair (7) to be added.
- Char. 31 example varieties Magical Green (1), Bright Blossom (2), Kolmbeau (3), Kolmsweet (4), Rosemary (5), Bosafan (6), Kolmgia (7) to be added. Spelling of “maximum” to be corrected.
- Char. 33 to be indicated as “QL” and state 1 to read “rounded”.
- Char. 36 state 2 to read “cream”.
- Chars. 36, 37 (+) to be added with explanation that it may not be possible to complete Char. 37 if the color does not correspond to an RHS reference color.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

Ads 20, 33 still to be provided.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

6. Example to be Berry: color group / green / brownish green.

Impatiens walleriana

27. The subgroup, chaired by Ms. Andrea Menne (Germany), agreed the following changes to document TG/IMPWALL(proj.1):

Title page Spanish common name “Alegría” to be added.

3.3.4 title to be corrected

4.2.2 hyphen to be deleted from “vegetatively propagated”.

7. *Table of Characteristics*

Chars. 1, 2, 4, 5, 16 to have “VG” added.

Char. 1 to have the states: short (3); medium (5); tall (7).

Char. 3 state 9 to be deleted.

Char. 6 example varieties to be deleted.

Char. 7 example varieties “Camela” (state 1) and “Snow and Ice” (state 9) to be added.

Char. 9 French translation of “yellowish white” to be added.

Char. 11 to have the states: only green (1); green and red (2); only red (3).

Char. 13 state 9 to be deleted.

Char. 14 state 9 to be deleted.

Char. 20 French translation as follows: à la base de chaque pétale (2); le long de la nervure médiane de chaque pétale (3); en bordure de chaque pétale (4); irrégulièrement diffus sur chaque pétale (5).

Char. 22 to read “Flower: size of eye zone”.

Char. 23 to read “Flower: color of eye zone”. French translation as follows: rose (3); rouge (4); pourpre (5); violette (6); blanche et rose (7); blanche et rouge (8).

Char. 24 to be indicated as “MS / VG”.

Char. 25 to be indicated as “MS / VG”.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

1.2 spelling of “Busy Lizzie” to be corrected.

5 to be updated with the example varieties used in the Table of Characteristics.

(b) Other draft Test Guidelines

Amaranth

28. The subgroup, chaired by Mr. Ton Kwakkenbos (CPVO), discussed document TG/AMARAN(proj.2) and agreed to send its comments to the leading expert.

Argyranthemum

29. The subgroup, chaired by Ms. Andrea Menne (Germany), agreed the following changes to document TG/ARGYRA(proj.1):

Title page “(L)” to read “(L.)” in Alternative Names box. English common name to be checked.

Subject of these Test Guidelines to read “... *Argyranthemum frutescens* (L.) Sch. Bip ...”.

2.3 “- for vegetatively propagated varieties:” to be deleted.

3.4.1 “In the case of vegetatively propagated varieties,” to be deleted.

3.5, 4.2.2 “of vegetatively propagated varieties” to be deleted.

4.3.2 “seed or” to be deleted.

7. *Table of Characteristics*

- Char. 1 example varieties Polyanna (1), Carmella (2), Surprise Party (3) to be added.
- New char. (after 3) to read “Stem: anthocyanin coloration”, with the states: absent (1); present (9) and to be indicated as “QL”.
- Char. 5 state 9 to be deleted.
- Chars. 7 to 10 “Longest” to be deleted.
- Chars. 9, 10 (+) to be added.
- Char. 11 to have the states: single (1); semi-double (2); anemone-like (3); double (4); pompon (5). (+) to be added.
- Char. 12 to be deleted.
- Char. 14 to read “Non single flower head varieties only: ...”.
- Char. 15 to read “Ray floret: form”.
- Chars. 20, 21 to read “Varieties with single and semi-double flower head only: ...”
- New char. (after 20) “Varieties with anemone-like flower head only: Disc: diameter”. To have the states: small (3); medium (5); large (7). To be indicated as “MS / VG”.
- Char. 21 “orange” to be amended to “gelb braun” in German.
- Char. 23 to be indicated as “VG”.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

- Ads 7 to 10 illustration / explanation to indicate that all observations should be made on the longest lobe.
- Ad. 11 illustration and explanation to be provided as for draft Dahlia Test Guidelines

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

- 5.2, 5.3 to be deleted.

Dahlia

30. The subgroup, chaired by Ms. Elizabeth Scott (United Kingdom), discussed document TG/DAHLIA(proj.2).

Rose (Revision)

31. The TWO, meeting in plenary, discussed document TG/11/8(proj.1) as presented by Mr. Joost Barendrecht (Netherlands) and agreed the following changes:

- 2.2 to read as follows:

Cut-flower types: for cut-flower types, the material is to be supplied in the form of young plants of commercial standard with their own roots, unless the variety does not grow on its own roots, in which case grafted plants and/or budwood of the variety would be required.

Garden rose and pot rose types: for garden rose and pot rose types, the material is to be supplied in the form of young plants growing on their own roots, or grafted on a rootstock.

2.4 to read “In cases where grafted plants are supplied”

3.3.1 to read “The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. In particular, unless otherwise stated, all observations should be made at the time of full flowering. For cut-flower types, the plants should not be observed in the first flush of flowering.”

3.3.2 to be deleted.

3.4.2 to read “Cut-flower types: in the case of cut-flower types each test should be designed to result in a total of at least nine plants for varieties resulting from crossing, or 18 plants in case the varieties resulting from mutation.”

3.5 to read “Unless otherwise indicated, all observations on single plants should be made on six plants or parts taken from each of six plants and any other observations made on all the plants in the test.”

4.4.2 etc. to be renumbered to 4.2.2

5.3 to read “The following have been agreed as useful grouping characteristics:

(a) Flower: color group (main division) (characteristic 21)

6.4 different sets of example varieties to be introduced for cut-flower types and garden and pot-rose types.

6.5 (C), (G), (P) to be deleted.

7. *Table of Characteristics*

Char. 1 to be deleted and plant growth types to be developed into groups in section 5.3, using characteristics from the Table of Characteristics and/or explanations.

Char. 2 to be reviewed by the subgroup.

Char. 6 to be deleted.

Char. 7 to read ‘Stem: number of prickles (excluding very small and hair-like prickles)’ with the states: absent or very few (1); few (3); medium (5); many (7). To be indicated as “QN”.

Char. 8 to read ‘Prickles: predominant color (as for 8.)’

Char. 9 to read ‘Leaf: size’ with the states: small (3); medium (5); large (7).

Char. 10 to be deleted.

Char. 16 state 1 to read “acute”.

Char. 18 to read ‘Flowering shoot: number of inflorescences’.

- New char. (after 18) to read ‘Inflorescence: number of flowers’ with the states: few (3); medium (5); many (7) and to be indicated as “QN”.
- Char. 21 (+) to be added and wording in brackets to be removed to explanations. Wording of states 11 (“mauve”), 12 (“russet”) and 13 (“contrasty multicolored”) to be improved.
- Char. 22 underlining of “Flower: number of petals” to be removed.
- New char. (after 22) to consider the possibility of adding a new characteristic for flower density for double-flower types only.
- Char. 26 “very” to be deleted from state 1.
- Char. 28 (+) to be added and explanation to be provided. To be checked if the characteristic provides useful discrimination beyond flower type.
- Chars. 36, 38 to 45 “inner side” to be replaced by “upper side”.
- Char. 39 to replace states with RHS Colour Chart reference. Wording in brackets to be deleted.
- Char. 40 new state “purple red” to be added after state 7.
- Char. 41 state 2 to read “at the tip”.
- New char. (after 41) to read “Multi-colored varieties only: Petal: position of tertiary color on the upper side” with the same states as for characteristic 41.
- Char. 44 new state “orange yellow” to be added after state 4.
- Char. 45 “outer side” to be replaced by “lower side”.
- Char. 48 to replace “of” with “in”.
- Char. 49 (+) to be added and underlined wording to be moved to the explanation.
- Char. 50 to be deleted.
- Char. 51 to be deleted.
- New char. (after 51) to consider the possibility of adding a characteristic for flower color change.

8. *Explanations on the Table of Characteristics*

to be updated in accordance with the changes to the Table of Characteristics and:

- 8.1(d) more precise notes to be provided for the timing of these observations.
- Ad. 16 legend to be completed.

10. *Technical Questionnaire*

to be updated in accordance with the changes to the Table of Characteristics and:

- 4.2 further methods of propagating the variety to be added (e.g. grafting)

7.2.2 to be moved to section 7.3 as follows:

Use:

(a) grown in the open:

- garden
- patio
- hanging basket
- rootstock
- cut-berry production

(b) grown under glass or other protection:

- cut-flower production
- pot rose.

Tagetes

32. The TWO meeting, in plenary, discussed document TG/TAGETE(proj.1) as presented by Mr. Richard Brand (France). It noted that the comments made during the discussions would be presented in the detailed report of the meeting.

Recommendations on Draft Test Guidelines (Plenary)

33. The TWO agreed that the following draft Test Guidelines should be submitted to the TC for approval at its fortieth session, on the basis of the amendments presented in paragraphs 22 to 27 of this document, which would be introduced by the Office with information provided by the leading expert:

- Alstroemeria (Revision) (document TG/ALSTRO(proj.1))
- Catharanthus roseus (document TG/CATHAR(proj.2))
- Clematis (document TG/CLEMAT(proj.2))
- Hypericum (document TG/HYPERI(proj.2))
- Impatiens walleriana (document TG/IMPWALL(proj.1))
- Verbena (document TG/VERBEN(proj.2))

34. The TWO decided to discuss further the following draft Test Guidelines at its next session:

- Amaranth (Mexico (TWA) to prepare a document)
- Argyranthemum (Germany to prepare a document)
- Brachyscome (Australia to prepare a document)
- Dahlia (United Kingdom to prepare a document)
- Poinsettia (Revision) (Denmark to prepare a document)
- Rose (Revision) (Netherlands to prepare a document)
- Tagetes (France / Mexico to prepare a document)
- Waxflower (Australia to prepare a document)

35. The TWO decided to discuss the following new draft Test Guidelines at its next session:

- Antirrhinum (Japan to prepare a document)
- Chrysanthemum (Revision) (United Kingdom to prepare a document)
- Eucalyptus (part of genus only) (Brazil to prepare a document)
- Gypsophila (Israel to prepare a document)
- Hibiscus (Republic of Korea to prepare a document)
- Phlox (Ecuador to prepare a document)
- Tulip (Revision) (Netherlands to prepare a document)

36. The TWO decided to discuss the following new draft Test Guidelines at its 2005 session:

- Diascia (Canada to prepare a document)
- Hevea (Rubber) (Brazil to prepare a document)

37. The deadlines and interested experts for the draft Test Guidelines listed in paragraphs 33 to 36 are presented in Annex II.

Future Program, Date and Place of the Next Session

38. At the invitation of the expert from Germany, the TWO agreed to hold its thirty-seventh session in Hanover, from July 12 to 16, 2004. During the thirty-seventh session, the TWO planned to discuss or re-discuss the following items:

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 (brief oral reports by the participants)
 - (b) report on developments within UPOV (oral report by the Office of the Union)
4. Molecular techniques
5. Project to consider the Publication of Variety Descriptions
6. UPOV Databases
7. TGP documents
8. Criteria for determining off-type plants
9. Discussions on draft Test Guidelines (Subgroups):
10. Recommendations on draft Test Guidelines (plenary)
11. Date and place of the next session
12. Future program
13. Report on the conclusions of the session (if time permits)
14. Closing of the session

39. The TWO adopted this report at the close of the session.

[Annex I follows]

ANNEX I

LIST OF PARTICIPANTS

I. MEMBERS

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[Annex II follows]

LIST OF LEADING EXPERTS

DRAFT TEST GUIDELINES
TO BE SUBMITTED TO THE TECHNICAL COMMITTEE IN 2004

Test Guidelines	Document	Leading expert(s)
Alstroemeria (Revision)	TG/ALSTRO(proj.1))	Mr. Barendrecht, NL
Catharanthus roseus	TG/CATHAR(proj.2)	Mr. Mizuno, JP
Clematis	TG/CLEMAT(proj.2)	Ms. Marshall, CA
Hypericum	TG/HYPERI(proj.2)	Mr. Barendrecht, NL
Impatiens walleriana	TG/IMPWALL(proj.1)	Mrs. Menne, DE
Verbena	TG/VERBEN(proj.2)	Mr. Barendrecht, NL

All requested information to be submitted to the Office of the Union
no later than November 7, 2003.

POSSIBLE “FINAL” DRAFT TEST GUIDELINES
TO BE DISCUSSED AT TWO/37

Species	Basic Document	Leading experts	Interested experts (countries) (for name of experts see List of Participants to be annexed to draft report)
Amaranth	TG/AMARAN(proj.2)	TWA	BR, IL, MX, NL
Argyranthemum	TG/ARGYRA(proj.1)	Ms. Menne, DE	AU, CA, DK, GB, NZ
Brachyscome	TWO/34/16, TWO/35/10	Mrs. Costa, AU	DE, GB, JP, NZ
Dahlia	TWO/35/21, TG/DAHLIA(proj.2)	Ms. Scott, GB	AU, CA, CZ, JP, MX, NL, NZ, PL, EU
Poinsettia	TWO/33/6, TWO/35/19	Mr. Jacobsen, DK	AU, CA, DE, JP, MX, NL, ZA, EU
Rose	TG/11/7, TWO/35/18, TG/11/8(proj.1)	Mr. Barendrecht, NL	AU, BR, CA, DE, FR, GB, IL, JP, KE, KR, NZ, ZA, EU
Tagetes	TG/TAGETE(proj.1)	Mr. Brand, FR and Mexico	DE, GB, HU, IL, KE, KR, MX, PL, ZA, EU
Waxflower	TWO/34/17, TWO/35/9	Mrs. Costa, AU	IL, ZA

New draft to be submitted to the Office of the Union
no later than May 28, 2004.

DRAFT TEST GUIDELINES
TO BE DISCUSSED AT TWO/37

Species	Basic Document	Leading experts	Interested experts (countries) (for name of experts see List of Participants to be annexed to draft report)
Antirrhinum	New	Mr. Mizuno, JP	CA, DE
Chrysanthemum (Revision)	TG/26/4	Miss. Scott, GB	CA, CZ, DE, DK, FR, IL, JP, KE, KR, MX, NL, NZ, PL, EU
Eucalyptus (part of genus only)	New	Mrs. de Moraes Aviani, BR	FR, IL
Gypsophila	New	Mr. Bar-Tel, IL	AU, EC, KE, ZA, EU
Hibiscus	New	Mrs. Yang, KR	AU, BR, DE, GB, IL, JP, NZ, ZA
Phlox	New	Ecuador	CA, NL, NZ, EU
Tulip (Revision)	TG/115/3	Mr. Barendrecht, NL	EU

New draft to be submitted to the Office of the Union
no later than June 11, 2004.

DRAFT TEST GUIDELINES
TO BE DISCUSSED AT TWO/38 (2005)

Species	Basic Document	Leading experts	Interested experts (countries) (for name of experts see List of Participants to be annexed to draft report)
Diascia	New	Ms. Marshall, CA	AU, GB, JP, NZ
<i>Hevea</i> (Rubber)	New	Mrs. De Moraes Aviani, BR	FR

[End of Annex II and of document]