



TWF/33/21

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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY  
FOR  
FRUIT CROPS**

**Thirty-Third Session  
San Carlos de Bariloche, Argentina  
November 25 to 29, 2002**

REPORT ON THE CONCLUSIONS

*adopted by the Technical Working Party for Fruit Crops*

Opening of the Session

1. The Technical Working Party for Fruit Crops (hereinafter referred to as "the TWF") held its thirty-third session in San Carlos de Bariloche, Argentina, from November 25 to 29, 2002. The list of participants is reproduced in the Annex I to this report.
2. The TWF was welcomed by Mr. Marcelo Labarta from the *Secretaría de Agricultura, Ganadería, Pesca y Alimentación* (SAGPyA).
3. This session was opened by Mr. József Harsányi (Hungary), Chairman of the TWF, who welcomed the participants (see Annex I to this document), and in particular new participants to the TWF.

Adoption of the Agenda

4. The TWF adopted the agenda as reproduced in document TWF/33/1 Rev.

Short Report on Developments in Plant Variety Protection in Fruit Crops*(a) Reports from members and observers*

5. The TWF received a presentation on plant variety protection in Argentina from Mr. Marcelo Labarta (SAGPyA) and received oral reports from the participants on developments in plant variety protection in their respective countries and organizations.

*(b) Report on developments within UPOV*

6. The TWF received an oral report from the Office of the Union on the last developments on plant variety protection at the Council, the Administrative and Legal Committee (hereinafter referred to as "the CAJ"), the Technical Committee (hereinafter referred to as "the TC") and the Technical Working Parties (hereinafter referred to as "the TWPs").

Molecular Techniques*(a) Developments in UPOV concerning the use of molecular techniques in DUS Testing (document TC/38/14 Add. – CAJ/45/5 Add.)*

7. The TWF received an oral report from the Office of the Union on the latest developments at the Working Group on Biochemical and Molecular Techniques and DNA Profiling in Particular (hereinafter referred to as "the BMT"), the *Ad Hoc* Crop Subgroup on Molecular Techniques and the *Ad hoc* Subgroup of Technical and Legal Experts on Biochemical and Molecular Techniques (hereinafter referred to as "the BMT Review Group").

8. It was agreed to propose that the Office of the Union produce a document for interested parties, and in particular breeders, clearly explaining the current UPOV position on the possible use of molecular characteristics in DUS examination. This should explain the possible approaches set out in options 1, 2 and 3 and the view within UPOV on each of these options. It should also explain the current situation regarding developments in the Crop Subgroups and explain how work on other crops could be initiated. It was emphasized that this document should make clear that it did not address the possible use of molecular characteristics in other areas, such as variety identification or judgement of essential derivation. The Office of the Union suggested that it could draft such a document in consultation with the Chairpersons of the TC, CAJ and BMT, but nevertheless considered that it might be appropriate to submit the draft for approval to the TC and CAJ before it was more widely circulated.

*(b) Ad hoc Crop Subgroups*

9. Mr. Erik Schulte (Germany) reported on the discussions in the BMT regarding the possible establishment of a Crop Subgroup for Peach and/or Citrus. It had been agreed that, at that time, there was not a clear basis to justify the establishment of a crop subgroup.

10. Mr. Schulte presented a review of current work on molecular techniques in peach and citrus. The expert from France reported that the use of molecular characteristics for variety identification was being investigated in apple, apricot, grapevine and peach. However, he noted that there were no plans to extend this work to the examination of DUS, firstly because it was not necessary for the examination of distinctness and secondly because it was not

possible to distinguish varieties resulting from mutation. The expert from the Community Plant Variety Office (CPVO) reported on work being conducted on peach in Spain.

11. The TWF concluded that it would not be appropriate to propose the establishment of a crop subgroup at this time. However, it welcomed the proposal from the expert from France to prepare a summary of work on molecular characteristics in fruit crops for review at the next TWF meeting. This summary would explain the technical progress, but would also consider whether there were plans for this work to be applied for the examination of DUS and, therefore, provides support for the establishment of a crop subgroup.

#### Project to Consider the Publication of Variety Descriptions (Document TC/38/10 Add.)

12. The TWF proposed that the following species be proposed for consideration by the TC as models for the project on the publication of variety descriptions:

(a) *Apple*

The coordinating member would be the United Kingdom. The other interested parties would be: Argentina, France, Germany, Hungary, Netherlands, New Zealand and CPVO.

(b) *Strawberry*

The coordinating member would be Israel. The other interested parties would be: Argentina; France, Germany, Hungary, Kenya, New Zealand, Spain and CPVO.

13. It noted that the Test Guidelines for Apple were currently under revision and that a survey of the descriptions of varieties for the characteristics in the Test Guidelines would help in the selection of asterisked and grouping characteristics and might indicate if certain characteristics were not described in a clear way. Furthermore, it noted that it was very difficult to maintain a living collection of all varieties of common knowledge, because of the global nature of the crop. It heard that a survey of variety descriptions had been undertaken within IPGRI and that this had shown a high degree of variation in variety descriptions. It further noted that it would be necessary to consider the regional distribution of apple varieties.

14. The TWF considered that strawberry would also be good basis for a model study because there were a number of varieties which were grown on a global basis and that most members of the Union would have an interest. Furthermore, there would not be a problem of mutation in this crop.

15. It was noted that a survey on harmonization of variety descriptions for apple and strawberry was planned by the CPVO.

#### UPOV Databases

16. The TWF received an oral report from the Office of the Union on the last developments in the UPOV databases.

TGPD Documents

(a) *TGP documents to which the TC has given highest priority for discussion:*

TGP/7.1 Draft 1 "Guidance for Drafters of Test Guidelines"

17. The Office of the Union introduced the document.

18. The TWF made the following recommendations:

- ASW3 The TWF agreed with the proposal from the TWO that additional standard wording and/or guidance notes should be developed to explain the nature of the growing cycle in section 3.3, where this was not obvious. For example, in the case of fruit trees it should explain that the growing cycle should relate to the production of fruit. It may also be necessary to indicate that the first fruit cycle should not be counted.
- ASW3(a) It agreed with the TWO proposal that the word "note" should be replaced by "key" to avoid confusion with the use of the term notes in the Table of Characteristics.
- ASW3(b) The TWF proposed that the title of this section should read "Stage of development for the assessment."
- ASW5(c) It agreed with the TWO that this wording did not cover all the options possible in Test Guidelines where there were both seed propagated and vegetatively propagated varieties, e.g. where there were self-pollinated varieties. It proposed that this section should be moved to the end of ASW 5 and various options developed to cover all the combinations of (a), (b), (d) and (e) and, furthermore, that these options should not be restricted to ornamental varieties.
- ASW7 It was agreed that the phrase "Variety resulting from" at the beginning of section 4.1.1 also related to sections 4.1.2, 4.1.3 and 4.1.4 and the text should be amended accordingly.
- ASW9 It was agreed that the title should be amended by insertion of the words "of seed propagated" before "hybrid varieties."
- ASW10 The TWF noted the concerns from the International Seed Federation (ISF) regarding the requirement for color photographs but, as for the TWO, requested ISF to explain its particular concerns.
- GN6 The TWF expressed its support of the view of the TWA that option 2, rather than option 1, should be presented in GN6.
- GN10(a)/(b) The TWF expressed its support of the current draft of GN10.
- GN10(c) The TWF agreed with the TWO proposal that, in addition to availability, the guidance notes should request that drafters of Test Guidelines take into account the expected life-time of varieties when selecting example varieties. For example, if a variety had proved to be commercially viable over a very long

period it might be expected to have a longer future life expectancy than some new varieties where experiences showed that the commercial viability of such new varieties was, in general, quite short.

GN10(d) The TWF proposed that this section should explain where such fluctuations could arise, for example if a variety had a particular interaction with the photoperiod

GN10(h)(i) The TWF proposed that the first paragraph should be elaborated to explain that if the same example varieties are not used it is not possible to be sure that the range in one territory is the same as that in another territory since the range of varieties and consequently the range of states of expression may be different.

The TWF did not agree with the proposal from the TWO to remove the list of example varieties to an annex in all Test Guidelines since it considered that it was important to have the example varieties in the place where most convenient for users. It also emphasized that the use of different sets of example varieties should be minimized. Thus, it did not consider that factors such as phytosanitary requirements were necessarily a basis for developing different sets of example varieties since these could be overcome with reasonable effort.

It proposed that, for a situation where multiple sets of example varieties were unavoidable, the different sets of example varieties should be presented in an annex in the same structure as the Table of Characteristics, such that the appropriate set could be easily copied and pasted into the Table of Characteristics. Furthermore, it proposed that this needs only to be done for selected characteristics if the universally accepted varieties could be accepted for the other characteristics.

GN10(h)(ii) The TWF agreed with the TWO that the guidance notes should clarify that example varieties from different countries should not be provided for the same characteristic unless it was known that they represented the same scale. In cases where this was not the case the sets of example varieties from different countries should be provided as separate lists.

GN14 The TWF proposed that further measures were not necessary since the asterisked characteristics clearly identified those characteristics which should be examined in all countries. However, it noted that it may not always be necessary to include all those characteristics fulfilling the requirements for inclusion in the Table of Characteristics if there was a clear consensus within all interested parties to omit certain of these characteristics.

GN15 The TWF agreed with the TWO that this information should be presented in a table to make it easier to follow.

GN19 The TWF agreed with the TWO that the title of this should be "Recommendations for conducting the examination."

GN21(a) The TWF agreed with the TWO that guidance was needed for the use of the underlined wording to indicate where a characteristic only applied to certain types of varieties.

- GN22(c) The expert from IPGRI explained that IPGRI had a different approach to the order of states of expression for growth habit and shapes of the apex. The Technical Director of UPOV agreed that, in the interests of harmonization of describing characteristics, UPOV could consider changing its approach if there was a technical reason for doing so. Indeed, the process of developing TGP/7 “Development of Test Guidelines” was intended to offer an opportunity for all interested parties to comment in this way and welcomed such comments. The expert from IPGRI also agreed that, in the interests of harmonization of describing characteristics, IPGRI could consider changing its approach if there was a technical reason for doing so. With regard to the growth habit characteristic it was agreed that the only fixed state for all versions of this characteristic was “erect”, since the other end of the scale might end with “prostrate”, “reflexed,” etc. according to the individual circumstances. It was for this reason that “erect” was attributed state 1 since it would always be state 1 in all characteristics. With regard to the shape of the apex it was agreed that, at first sight, there did not appear to be any clear reason for the order going from “pointed” to “rounded” and it was agreed to check if there was a particular reason.
- GN23 The TWF noted that this section would be reviewed in discussions on TGP/7.3.1.
- GN24 The TWF agreed that the second sentences should be re-worded as proposed by the TWA. It further proposed that the final sentence should read as follows: “Where necessary, characteristics in the Test Guidelines can be simplified (e.g. color groups can be created rather than requesting an RHS Colour Chart reference) for inclusion in the Technical Questionnaire (TQ), if this would be of assistance for the breeder completing the TQ. Furthermore, the characteristics contained in the Test Guidelines can be combined or formulated in a way which is more easily recognizable to breeders when presented in the TQ. For example, the TQ for peach may request information on whether the variety is a “melting” or “non-melting” type, which although not a characteristic in the Table of Characteristics would provide information on the states of expression of certain characteristics included in the Table of Characteristics.

TGP/7.2 Draft 1 “TG Template”

19. The Office of the Union introduced the document
20. The TWF made the following recommendations:

3.5 Number of Plants/Parts of Plant to be Examined

It agreed with the TWA and TWO respectively that “on single plants” should be inserted after the word observations and that the following sentence be introduced to clarify that other types of observation, in particular visual observation, were also possible.

“Unless otherwise indicated, all observations determined by means other than measuring or counting should be made on all plants in the test.”

### 6.5 Legend

The TWF strongly supported the retention of an indication of the type of expression (qualitative characteristic (QL), quantitative characteristic (QN), pseudo-qualitative characteristic (PQ)) in all Test Guidelines and did not consider that this should be optional. It noted that where the expression of an individual characteristic was unknown, the indication for that characteristic could be omitted, but emphasized the importance of providing information to users of Test Guidelines where at all possible.

### 7. Table of Characteristics

It agreed with the TWO that the title of GN 19 should be changed to “Recommendations for conducting the examination.”

### 10. Technical Questionnaire

#### 10.6 *Similar varieties and differences from these varieties*

The TWF agreed with the recommendation from the Technical Working Party for Agriculture (TWA), that a suitable example should be provided for the individual Test Guidelines. It also agreed with the TWO recommendation that a brief explanation should be provided for the applicants to ensure that they would understand how to complete this section.

### 11. Annex to the Technical Questionnaire

The TWF agreed with the TWO that it was important for the information requested in this annex to be provided at the time of the application and that this section should be included within the Technical Questionnaire. To improve the clarity for users who might be more familiar with applications for the patent system it proposed that the word “plant” should be inserted before “material.” It was undecided whether the heading should be changed to “Information on Material to be Submitted for Examination” and noted that it would be necessary to see if this change would be acceptable to members using a breeder-based testing approach. On this basis it proposed that it should read as follows:

9. (New) Information on plant material to be examined

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scion taken from different growth phases of a tree, etc.

9.2 To the best of your knowledge, will the plant material to be examined be affected by the following factors in a way which may affect the expression of the characteristics of the variety?

- |   |                              |                             |
|---|------------------------------|-----------------------------|
| (a) Pests   | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (b) Disease   | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (c) Micro-organisms (e.g. virus, bacteria, phytoplasma)     | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (d) Chemical treatment (e.g. growth retardant or pesticide) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (e) Other factors   | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

Please provide details of any factors where you have indicated "yes".

9.3 Has the plant material to be examined been subjected to:

- |  |                              |                             |
|--|------------------------------|-----------------------------|
| (a) Tissue culture   | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (b) Different rootstock from that to be used in the examination (if appropriate) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| (c) Other  | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

Please provide details of where you have indicated "yes".

[ASW 9.4 Has the plant material to be examined been tested for the presence of virus or other disease?

- |     |                          |                          |
|-----|--------------------------|--------------------------|
| Yes | <input type="checkbox"/> | (please provide details) |
| No  | <input type="checkbox"/> |                          |

TGP/7.4 Draft 1 "Procedures for the Introduction and Revision of Test Guidelines"

21. The Office of the Union introduced the document.

22. The TWF made the following recommendations:

1.2.1 The TWF proposed that this section should explain that the main international non-governmental organizations in the field of plant breeding and genetic resource



management were invited to be observer organizations and would thereby be involved in the drafting of Test Guidelines.

2.3 The TWF requested that, at each meeting of a TWP, the Office of the Union report on proposals from other TWPs for the drafting of Test Guidelines, to allow them to consider if they would wish to be involved in, or perhaps be responsible for, the drafting of particular Test Guidelines.

2.4.2 It was agreed that this section should be modified to make it clearer that work on the drafting of Test Guidelines could start before formal approval by the TC.

5.3 The TWF agreed with the approach for referencing Test Guidelines as set out in Option 3.

TGP/7.3.1 Draft 1 “Standardized UPOV Terms and Explanations: Types of Expression of Characteristics”

23. The Office of the Union introduced the document

24. The TWF made the following recommendations:

2.3.2.2 Further consideration should be given to whether states 1 and 9 should continue to be used for absent and present. The TWF noted that there were two reasons to consider changing from the present 1 and 9 states. Firstly, it could lead to harmonization with the IPGRI system of descriptors, where the states 0 and 1 are used for absent and present respectively. Secondly, the current approach could be misleading since it implied that there were states in between 1 and 9. Some participants also thought that the 0 and 1 states were more logical since 0 corresponded to absence. It was noted that a change to a new approach might cause some additional work and that in some systems the figure “0” was used to indicate that no data was available.

3.4.2.2.1 (first) It was noted that the headings should read “Wording of uneven states”

3.4.3.2.1 (second) It was noted that this should be amended to read 3.4.2.2.2

3.5.1 The TWF agreed with the TWO recommendation that the condensed range should be limited to those characteristics which are visually observed. In the case of characteristics which are measured or counted the normal scale should be used.

3.5.1 Condensed Range 2: The TWF recommended that state 2 should be termed “medium” or “moderate.”

TGP/7.3.2 Draft 1 “Standardized UPOV Terms and Explanations: Harmonized States of Expression of Characteristics”

25. The Office of the Union introduced the document

26. The TWF welcomed the development of the document and agreed with the proposed approach.

TGP/4.1 Draft 2 “General Guidance for the Management of Variety Collections” and TGP/9  
“Examining Distinctness”

27. The TWF endorsed the recommendation of the TWA that TGP/4 should be restricted to the practical management of variety collections and should not seek to establish guidelines for deciding which varieties should be included, since this should be addressed in TGP/9. It considered that the elaboration of varieties of common knowledge should be covered by TGP/3. The TWF considered that, within the scope of the management of variety collections, the documents should address the management of collections of both living plant material and the management of information, such as that contained in databases or catalogues. With regard to TGP/9.1 “General Procedures for Examining Distinctness” the TWF endorsed the approach proposed by the TWA, namely to provide examples of different approaches to examining distinctness used by UPOV members. It recommended that this should have an introduction to explain the nature of the document and this introduction should clarify that there was only one system for examination of distinctness, but that different approaches could be developed within this single system. It also noted that the current draft of TGP/4 contained overlaps with the examination of distinctness.

28. The expert from New Zealand introduced a preliminary version of a draft for a section of TGP/4.2 on “Variety Collections for Tree and Perennial Species.” It was agreed that this covered the important aspects of dealing with variety collections of such species.

TGP/9.4.2 “Examining Distinctness in Different Types of Variety: Rootstocks”

29. The document was introduced by the expert of Germany.

30. The TWF proposed that the word “preferably” in the first line of paragraph 3 should be changed to “often.” It also proposed that a new section should be introduced to address seed propagated rootstock varieties.

(b) Other TGP documents

TGP/13 “Guidance for New Types and Species”

31. The document was introduced by the expert of New Zealand. It was agreed that the document should clarify that it was intended to refer to species and types which were new in terms of applications of varieties for protection, rather than new to nature.

TGP/14.2 “Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents: Plant Shapes”

32. The document was introduced by the expert from the United Kingdom

33. The TWF welcomed the document and agreed that the document would be even more useful if it was re-structured into three sections, in recognition of the fact that the drafters of the Test Guidelines would use the illustrations as the first point of reference: the first section should provide the definition of apex, tip and base; the second section should contain the illustrations for the shapes; and the final section should contain the detailed glossary linked

to the illustrations. It was recommended that the illustrations section should contain a sufficient number of illustrations for each type of shape and/or possible state of expression, to be clear to the user. The TWF proposed that a sub-section should be included on full plane shapes to explain how to describe fruit shape and, in particular, how to orientate the fruit, i.e. stalk end up or down, according to the norm in each species.

34. It was agreed that the document should be extended to include leaf margins and leaf divisions.

35. The TWF proposed that a similar document should be prepared on hair types, by the expert from New Zealand, for its next session.

36. The TWF did not have time to consider the other TGP documents at the meeting and requested that written comments be sent to the Office of the Union by December 6, 2002.

#### Discussion on Draft Test Guidelines (Plenary)

##### Citrus

37. The expert from Spain introduced the following documents:

Grapefruit and Pummelos (Revision)	(TWF/33/2)(TG/GRA -PUM(proj.1))
Lemons and Limes (Revision)	(TWF/33/3)(TG/LEM -LIM(proj.1))
Mandarin (Revision)	(TWF/33/4)(TG/MANDA(proj.1))
Oranges (Revision)	(TWF/33/5)(TG/ORANG(proj.1))

38. The TWF agreed the following changes:

Title page Spanish column: Toronjoto to be deleted and Pampelmusato to be replaced by Pummelo (document TWF/33/2)

Other associated documents to read: "...Group 3: TG/LEM -LIM(proj.1)- (TWF/33/3)

6.5 [#] to be deleted

7. Table of Characteristics

Characteristics 33 and 34 (document TWF/33/2): Delete Example variety "Oran Red."

8. Explanations on the Table of Characteristics

Missing explanations to be provided

10. Technical Questionnaire

10.1 Latin names to be linked to the appropriate common names

10.5 Characteristics to be updated in line with changes in the Table of Characteristics. In document TWF/33/2 Oran Red to be deleted in Sections 5.1 and 5.2.

10.6 Suitable example to be provided

10.7 ASW10 to be inserted

39. The expert from Spain introduced the following document:

Citrus L.: Overall Table of Characteristics (TWF/33/2 Add. - TWF/33/3 Add. - TWF/33/4 Add. - TWF/33/5 Add. - TWF/33/6 Add.)

40. The TWF agreed that the experts from Germany and France would provide corrections for the German and French translations, respectively, to the Office of the Union. It agreed the following changes:

Page 1,2

Group 1 :

Common Spanish name for *C. clementina* to read: Clementina

Common English name for *C. deliciosa* to read: Mandarin comun

Common English name for *C. reticulata* to read: Tangerine

Common Spanish name for *C. reticulata* to read: Mandarina Ponkan

Group 2:

Common Spanish name for *C. aurantium* to read: Naranja amargo agrío

Group 3:

First species to read: *C. aurantifolia* with Spanish common name: Lima Mexicana and Limón Mexicano

*C. latifolia*: common Spanish name: Lima acida

*C. limettioides*: common Spanish name: Lima dulce

*C. jambhiri*: common Spanish name: Limón rugoso

Group 4:

Spanish translation to read: "Pomelo y Pummelos híbridos"

*C. grandis*: common Spanish name: Pummelo

*C. paradisi*: common Spanish name: Pomelo Toronja

Group 5:

*Poncirus x* Grapefruit; *Poncirus x* Lemons; *Poncirus x* Mandarin; *Poncirus x* Sweet orange: the stated common names for each hybrid to apply for all languages.

7. Table of Characteristics

Column 1 (Original\*) to be deleted.

Columns 3 to 7: "y" to be replaced by number when Test Guidelines for Group 5 complete

Char. 2 To read "erguido" in Spanish (state 1) and "abierto" (state 2)

- Char.20 To add a bull on a doo ampollado in Spanish
- Char.24 State 1 to read: absent
- Char.29 To read “ Varieties with petiole wings present only :Petiole:...”
- Char.42 State 7 to read “sinuoso” in Spanish
- Char.49 “transversal” to be amended to “transverse.” State 1 to read: circular.
- Char.51 To read “ Varieties with fruit neck absent only: Fruit: presence of depression at stalk end”
- Char.52 To read “ Varieties with fruit neck absent only: Fruit: depth of depression at stalk end”
- Char.65 To add “...el mameón opezón, el...” in Spanish
- Chars. 69 and 70 In Spanish to add “opezón”
- Char.82 To read “ Fruit: color variation.” In French translation “variation” to be amended to “panachure”
- Char.85 state 7 to read “Fuerte” in Spanish
- Char.92,94 In Spanish version to replace “laxa” with “dispersa”
- Char.109 In Spanish translation “acritud” to be amended to “amargor”
- Char.112 To read “ Fruit: presence of rudimentary segments” and wording of state to be checked to see if it should be absent or few(1);...many(3)
- Char.120 Remove underlining of word “internally”
- Chars. 120 and 121 In Spanish translation “desde dentro ” to be amended to “internamente”
- Char.122 To check if “juice content” should be replaced by “juiciness”
- Char.123 In Spanish translation “totales” to be added to end of characteristic title and “s” removed from the end of “bajo,” “mediano,” “alto.”
- Char.126 “del” to be deleted from column 2
- Char.128 In French translation to read “...polyembryoniques”
- Char.134 In Spanish translation to read “ Semilla: zcolor del acubierta interna”
- Char.135 To insert “ Polyembryonic varieties only :...”
- Char.138 In Spanish translation to read “Fruto: partenocárpia”

Qualitative characteristics: 1, 6, 26, 28, 30, 37, 38, 40, 43, 44, 51, 53, 56, 61, 66, 69, 71, 72, 80, 82, 104, 106, 107, 109, 128, 131, 136, 138, 139.

Quantitative characteristics: 3, 4, 5, 7, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 27, 29, 31, 32, 33, 34, 35, 36, 41, 45, 46, 47, 48, 52, 54, 55, 57, 58, 59, 60, 62, 63, 64, 65, 67, 68, 70, 73, 74, 75, 78, 79, 81, 84, 85, 86, 87, 89, 90, 92, 93, 94, 95, 96, 97, 98, 99, 100, 102, 103, 105, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 121, 122, 123, 124, 125, 126, 127, 129, 130, 132, 137.

Pseudo-qualitative characteristics 2, 8, 9, 24, 25, 39, 42, 49, 50, 76, 77, 83, 88, 91, 101, 108, 120, 133, 134, 135.

#### Discussion on Draft Test Guidelines (Subgroups):

##### (a) Subgroup discussion on final draft Test Guidelines

#### Cherimoya, TWF/33/12 (TG/CHERIM(proj.1))

41. The experts from Japan and Mexico introduced document TWF/33/12 (TG/CHERIM (proj.1)).

## 42. The Subgroup agreed the following changes:

The Latin name to be amended to *Annona cherimola* Mill. on title page (twice) and sections 1, 2.2, 2.3 and 10.1.1.1.

Title page Spanish common name: "Anon del Peru" to be deleted and "Cherimoya" added.

2.3 To read "eight" plants instead of "five"

3.3.2(a) To read " One-year-old shoot: Unless otherwise stated, all observations on the one-year-old shoot should be made on the middle third during dormant season."

3.3.2(b) To be deleted

5.3(b) To read "Fruit: segmentation of surface" (to be checked)

5.3(c) Space needed between "surface" and "(.)"

6.5 To read " (a) to (d) "

7. Table of Characteristics

Key(b) To be deleted

Key(c) To be renumbered (b)

Key(d) To be renumbered (c)

Key(e) To be renumbered (d)

Old characteristic numbers shown as "[...]" or "new" to be deleted

Chars. 2, 12, 19, Example variety to read "Finode Jete"

Chars. 16, 22, 31, 34, 35, 36, 38, 39, 41, 43, 44, 52 Example variety to read "El Bumpo"

Char. 1 To be indicated as QN. To read "Shoot: length of internode"

Char. 2 To be indicated as PQ

Char. 3 To be indicated as QL. To read "pubescence."

Char. 4 To be indicated as QN. Example variety to read "African Pride"

Char. 5 To be indicated as QN

Char. 6 To be indicated as QN

Char. 7 To be indicated as PQ. State 2 to read "oblate," state 3 to read "broad lanceolate" and state 4 to read "narrow lanceolate"

Char. 8 To be indicated as QN. To read "Leaf blade: green color (upper side)" with states: light(1), medium(2), dark(3).

Char. 9 To be indicated as PQ. To read "Leaf blade: green color (lower side)"

Char. 10 To be indicated as QL. To read "Leaf blade: pubescence (upper side)"

Char. 11 To be indicated as QL. To read "Leaf blade: pubescence (lower side)"

Char. 12 To be indicated as QN

Char. 13 To be indicated as QN

- Char.14 TobeindicatedasQN.Toread“Leafblade:undulationofmargin.”  
State1toread“absentorveryweak.”
- Char.15 TobeindicatedasQN.Toread“Shoot:densityofflowers”
- Char.16 TobeindicatedasQN.“Outer”tobe deletedfromheading
- Char.17 TobeindicatedasQN.“Outer”tobedeletedfromheading
- Char.18 TobeindicatedasQN.“Outer”tobedeletedfromheading
- Char.19 TobeindicatedasQN.“Outer”tobedeletedfromheading
- Char.20 TobeindicatedasPQ. “Outer”tobedeletedfromheading
- Char.21 Tobedeleted
- Char.22 TobeindicatedasQN
- Char.23 TobeindicatedasQN
- Char.24 TobeindicatedasQN
- Char.25 Tobedeleted
- Char.26 TobeindicatedasPQ.Insertspacebetween“:”and“shape”
- Char.27 TobeindicatedasQN
- Char.28 TobeindicatedasQN
- Char.29 TobeindicatedasQN
- Char.30 TobeindicatedasQN
- Char.31 TobeindicatedasPQ.State5toread“trapezoidal”
- Char.32 TobeindicatedasQL
- Char.33 TobeindicatedasPQ
- Char.34 TobeindicatedasQN
- Char.35 To be indicated as QL. To read “Fruit: segmentation of surface”  
withstates:reticulate(1);overlappingsegments(2).(Tobechecked)
- Char.36 TobeindicatedasQN.State1toread“absentorverysmall”
- Char.37 TobeindicatedasPQ
- Char.38 TobeindicatedasQN
- Char.39 TobeindicatedasQN
- Char.40 TobeindicatedasQN
- Char.41 TobeindicatedasQN
- Char.42 TobeindicatedasQN.“(sweetness)”tobedeleted
- Char.43 TobeindicatedasQN
- Char.44 TobeindicatedasQN .Tohavethestates:weak(3),medium(5),  
strong(7)
- Char.45 TobeindicatedasQN
- Char.46 TobeindicatedasQN
- Char.47 TobeindicatedasQN
- Char.48 TobeindicatedasQN.Toread“Seed:ratiolength/width”.Example  
varieties:Oakwood(state 3);ElBumpo(state5);BayOff(state7)
- Char.49 TobeindicatedasQN
- Char.50 TobeindicatedasQL
- Char.51 TobeindicatedasQN
- Char.52 TobeindicatedasQN

## 8. ExplanationsontheTableofCharacteristics

- Ad.7 State2toread“oblate,”state3toread“broadlanceolate”andstate4  
toread“narrowlanceolate”
- Ad.31 State5toread“trapezoidal”
- Ad.35 Toread“Fruit: segmentation of surface” withstates: reticulate(1);  
overlappingsegments(2).(Tobechecked)
- Ad.36 State1toread“absentorverysmall”

9. Literature

To be put in alphabetical order

10. Technical Questionnaire

5.1 State to read "trapezoidal"

5.2 To read "Fruit: segmentation of surface" with states: reticulate (1); overlapping segments (2). (To be checked)

5.3 State to read "absent or very small"

6 Example to be provided

7.3 ASW10 to be added

Persimmon (Revision), TWF/33/14 (TG/92/4 (proj.1))

43. The expert from Japan introduced document TWF/33/14 (TG/92/4 (proj.1)).

44. The Subgroup agreed the following changes:

Title page spelling of Spanish common name "Caqui" to be checked

5.3(g) To be deleted (characteristic 47)

7. Table of Characteristics

Old characteristic numbers shown as [...] to be deleted

Characteristics to be renumbered without lettering suffix (e.g. 37.a and 37.b become 37 and 38).

Char.1 To be indicated as QN

Char.2 To be indicated as PQ

Char.3 To be indicated as QN

Char.4 To be indicated as QN

Char.5 To be indicated as QN

Char.6 To be indicated as QN

Char.7 To be indicated as QN

Char.8 To be indicated as PQ

Char.9 To be indicated as PQ.

Char.10 To be indicated as PQ. State 2 to read "oblate"

Char.11 To be indicated as QN

Char.12 To be indicated as QN

Char.13 To be indicated as PQ

Char.14 To be indicated as PQ

Char.15 To be indicated as PQ

Char.16 To be indicated as QL

Char.17 To be indicated as QN



Char.18	To be indicated as PQ. To read “Female flower: shape of calyx viewed from above”
Char.19	To be indicated as QL
Char.20	To be indicated as QN
Char.21	To be indicated as PQ
Char.22	To be indicated as PQ. State 2 to read “irregular rounded”
Char.23	To be indicated as PQ
Char.24	To be indicated as QN. State 2 to read “moderate”
Char.25	To be indicated as QN. State 2 to read “moderate”
Char.26	To be indicated as QN. State 2 to read “moderate”
Char.27	To be indicated as QN. To read “Fruit: longitudinal grooving”
Char.28	To be indicated as QN
Char.29	To be indicated as QN. State 1 to read “level”
Char.30	To be indicated as QL
Char.31	To be indicated as QN. State 2 to read “moderate”
Char.32	To be indicated as QN
Char.33	To be indicated as QN
Char.34	To be indicated as QN
Char.35	To be indicated as QN
Char.36	To be indicated as QN
Char.37.a	To be indicated as PQ
Char.37.b	To be indicated as PQ
Char.38.a	To be indicated as PQ
Char.38.b	To be indicated as PQ
New Char.(after 38.b)	To be indicated as QL. To read “Fruit: presence of brown specks in flesh. To have the states: absent(1); present(9). Example varieties: Atago, Saijo(state 1); Zenjimaruru(state 9)”
Char.39	To be indicated as QN. State 1 to be deleted
Char.40	To be indicated as QN
Char.41	To be indicated as PQ. To read “Seed: shape in lateral view”
Char.42	To be indicated as PQ
Char.43	To be indicated as QN. To read “ <u>Female flower only:</u> Time of flowering of female flower(80% open)”
Char.44	To be indicated as QN
Char.45.a	To be indicated as QN
Char.45.b	To be indicated as QN
Char.46	To be indicated as QL
Char.47	To be indicated as QL

## 8. Explanations on the Table of Characteristics

Ad.18	To read “Female flower: shape of calyx viewed from above”
Ad.22	State 2 to read “irregular rounded”
Ad.24	State 2 to read “moderate”
Ad.25	State 2 to read “moderate”
Ad.26	State 2 to read “moderate”
Ad.27	To read “Fruit: longitudinal grooving”
Ad.29	State 1 to read “level”
Ad.41	To read “Seed: shape in lateral view”
Ad.54	To read “Ad.47”

9. Literature

List to be alphabetic. Further reference for Bellini to be added.

10. Technical Questionnaire

5.7 To be deleted

6. Example: Fruit: general shape in lateral view e.g. elliptic/e.g. circular

7.3 ASW10 to be added

*Poncirus*, TWF/33/6(TG/PONCIR(proj.1))

45. The expert from Spain introduced document TWF/33/6(TG/PONCIR(proj.1)).

46. The Subgroup agreed the following changes:

On page 1 :

To delete *Poncirus*, under alternative names, everywhere, except under Latin. In other associated documents, write Citrus L. as follows : “ *Citrus* L.”

1.3 To write FRUIT and ALL in small letters as follows : “fruit” and “all”

4.3.1 To change “for many types of variety” in “for many types of varieties”, on the 3<sup>rd</sup> line.

6.5 [#] to be deleted  
to redraft the “Notes for observing characteristics” as follows:  
“a to i: See section 3. 3.3.1”

7. Table of Characteristics

Char.1 to redraft the example variety as follows: *Poncirus trifoliata*  
To repeat this in the whole document

Char.7 (\*) To be added

Char.8 (\*) To be added

Char.17 To be deleted

Char.19 To correct only in Spanish as follows: “abullonado or ampollado”

Char.23 To change “entire” by “absent”. (\*) to be added

Char.24 (\*) To be added

Char.27 (\*) To be added

Char.28: To add “(Varieties with petiole wings present only)”

Char.41 (\*) To be deleted

Char.42 (\*) To be deleted

Char.43 (\*) To be deleted

Char.44 (\*) To be deleted

Char.46 (\*) To be deleted

Char.47 (\*) To be deleted

Char.49 (\*)Tobedeleted  
Char.59 (\*)Tobedeleted  
Char.60 (\*)Tobedeleted  
Char.62 (\*)Tobedeleted  
Char.64 (\*)Tobedeleted  
Char.71 (\*)Tobedeleted  
Char.72 (\*)Tobeadded  
Char.73 To receive(\*)  
Char.83 (\*)Tobedeleted  
Char.84 (\*)Tobedeleted  
Char.92 (\*)Tobedeleted  
Char.93 Toremove“New”  
Char.98 (\*)Tobedeleted  
Char.110 (\*)Tobedeleted

It was noted that the overall Citrus Table of Characteristics would need to be updated according to the changes above.

8. Explanations on the Table of Characteristics

Ad.45(c49.):Fruit:circumference in transversal section :  
to replace “round” by “circular”

List of Example Varieties for *Poncirus* :

To redraft the name of varieties under “Variety denomination”, in small letters, except for “CPB4475”, as follows:

Carrizo  
Cunningham,  
Former Alcaide 13  
*Poncirus trifoliata*

10. Technical Questionnaire

To draft the Latin name and the common name as follows :

*Poncirus* Raf./*Trifoliata* Orange, Golden Apple – PON  
*Poncirus* x Grapefruit/Citrumelo –CML  
*Poncirus* x Lemons/Citremon –CTL  
*Poncirus* x Mandarin/Citr Mandarin –CTI  
*Poncirus* x Sweet Orange/Citrange –CTG

7.3 To add “A representative color photograph of the variety should accompany the Technical Questionnaire.”

Quince(Revision),(TWF/33/7(TG/100/4(proj.1))

47. The expert from Germany introduced document TWF/33/7(TG/100/4(proj.1)).

48. The subgroup agreed the following changes:

7. Table of Characteristics

All notes at the end of the characteristics (e.g. at the end of characteristic 3) to be deleted.

- Char.1 To be indicated as QN
- Char.2 To be indicated as PQ. "Upright" to be put in normal font.
- Char.3 To be indicated as PQ. To have the notes 1, 2, 3. Example variety Hov.No.2 to be deleted
- Char.4 To be indicated as QN
- Char.5 To be indicated as QN
- Char.6 To be indicated as PQ
- Char.7 To be indicated as QN
- Char.8 To be indicated as QN. State 3 to read "strongly held out"
- Char.9 (+) to be added. To be indicated as QN. To read "Leaf blade: attitude" with the states: upright(1); horizontal(2); downwards(3)
- Char.10 To be indicated as QN
- Char.11 To be indicated as QN
- Char.12 To be indicated as PQ
- Char.13 To be indicated as PQ
- Char.14 To be indicated as QN. Example variety for state 2 to read "Mezötúri"
- Char.15 To be indicated as QN. Example variety "Triumph" to be put into correct font size
- Char.16 To be indicated as PQ
- Char.17 To be indicated as QN
- Char.18 To be indicated as QN
- Char.19 To be indicated as QN
- Char.20 To be indicated as QN
- Char.21 To be indicated as PQ
- Char.22 To be indicated as QN. To check if state 4: "irregular" needed. to delete "s" in arrangements
- Char.23 To be indicated as PQ
- Char.24 To be indicated as QN. To have the notes 3, 5, 7
- Char.25 To be indicated as QN. To read "...relative to others..."
- Char.26 To be indicated as QN
- Char.27 To be indicated as PQ. Example variety "Fruits Ronds" to be put in normal font. Notes to be corrected to 1, 2, 3, 4, 5
- Char.28 To be indicated as PQ. State 1 to read "asymmetric" in English and "asymmetrisch" in German
- Char.29 To be indicated as PQ. Asterisk to be deleted
- Char.30 (+) to be added. To be indicated as QL. To read "Fruit: presence of neck"
- Char.31 (+) to be added. To be indicated as QN. To read "Fruit: length of neck"
- Char.32 To be deleted

- Char.33 TobeindicatedasQN  
 Char.34 TobeindicatedasQN  
 Char.35 Tobe deleted  
 Char.36 TobeindicatedasQN. Toread“Fruit: stalkcavity”withthestates:  
 absentorvery small (1), small (3), medium (5), large (7). Example  
 varietyforstate1tobeBereczki  
 Char.37 TobeindicatedasQN  
 Char.38 TobeindicatedasPQ  
 Char.39 TobeindicatedasQN. Examplevariety“Champion”tobedeleted  
 andnewvarietyprovidedforstate7  
 Char.40 TobeindicatedasQN. Word“(changed)”tobedeletedfromheading  
 Char.41 TobeindicatedasQN

#### 8. ExplanationsontheTableofCharacteristics

- Ad.8 State3 toread“stronglyheldout.”  
 Ad.9 Explainthatthecharacteristicistobeobservedonerectshoots.  
 Illustrationtobeprovided.  
 Ad15 Illustrationtobeimproved  
 Ad.21 Toread“Thecoloroftheflowershouldbeobservedonthefirstday  
 onwhichitopens.”  
 Ad.22 Tocheckifstate4:“irregular”needed.  
 Ad.27 Illustrationtoberotated180degrees  
 Ad.30/31 Illustrationtobeprovidedshowingbothcharacteristics.  
 Ad.32 Tobe deleted

#### 9. Literature

Popow reference to read: Popov, E. ; “B”Lgarska Pomologiya”. D”rzhavno  
 Izdatelstv za Selskostopanska Literatura, Sofiya. English  
 versiontobedeleted.

#### 10. TechnicalQuestionnaire

- 5.3 Notestobecorrectedto1,2,3,4,5.  
 6 Exampletobe:Leafblade:shapee.g.circular/e. g.obovate  
 7.3 ASW10tobeadded

#### Raspberry(Revision),TWF/33/8(TG/43/7(proj.1))

49. TheexpertfromGermanyintroduceddocumentTWF/33/8(TG/43/7(proj.1)).  
 50. TheSubgroupagreedtoworkontheversionofthedocumentwhichpresentedthe keys  
(a)to(h) insection3.3.3.Itthenagreedthefollowingchanges:  
 3.3.3(f) “shoot”tobereplacedby“cane”  
 3.3.3(h) Firstsentencetoread“...summerharvestatthefruitinglateralsonlyexcept  
 forvarieties...”

- 5.3(a) To read “Very young shoot: anthocyanin coloration of apex during rapid growth (characteristic 3)”
- 5.3 new (after 5.3(b) Characteristic 33 (Fruit: color) to be included as a grouping characteristic
- 5.3(d) To replace underlined part of characteristic heading with “ Varieties which fruit on previous year’s cane in summer :...”
- 5.3(e) To replace underlined part of characteristic heading with “ Varieties which fruit on current year’s cane in autumn :...”

## 7. Table of Characteristics

Characteristics to be renumbered without lettering suffix (e.g. 9a and 9b become 9 and 10).

- Char. 1 To be indicated as PQ
- Char. 2 To be indicated as QN
- Char. 3 To be indicated as QL. To read “Very young shoot: anthocyanin coloration of apex during rapid growth”
- Char. 4 To be indicated as QN. To read “Very young shoot: intensity of anthocyanin coloration of apex during rapid growth”
- Char. 5 To be indicated as QN. Delete “intensity of” from heading
- Char. 6 To be indicated as QN. Delete “intensity of” from heading
- Char. 7 To be indicated as QN. States 3 and 5 to have the existing example varieties deleted and replaced by: Zefa 3(3), Zefa 2, Rusilva(5)
- Char. 8 To be indicated as QN. Example variety “Malling Admiral” to be replaced by “Veten”
- Char. 9a, 9b, 10 To read “ Varieties which fruit on previous year’s cane in summer:...”
- Char. 9a To be indicated as QN
- Char. 9b To be indicated as QN
- Char. 10 To be indicated as PQ. Example variety “Malling Orion” to be added for state 2. Example variety “Glen Clova” to replace “Rusilva” for state 3. Example variety “Malling Landmark” to have “,” deleted between these two words. Example varieties to be presented in normal font. Example variety for state 4 to read “Festival”
- Char. 11 To be indicated as QL
- Chars. 12 to 15 To read “ Varieties with spine present only :...”
- Char. 12 To be indicated as QN
- Char. 13 To be indicated as QN
- Char. 14 To be indicated as QN. Example variety “Rucami” to be replaced by “Gigant”
- Char. 15 To be indicated as PQ. Example variety “Rode Radboud” to be added for state 3. Example variety “Pechts Herbstfreude” to be replaced by “Sirius”
- Char. 16 To be indicated as QN
- Char. 17 To be indicated as PQ. Spelling of “equally” in state 2 to be corrected
- Char. 18 To be indicated as QN
- Char. 19 To be indicated as QN. To read “Leaf: rugosity.” Footnote to be deleted
- Char. 20 To be indicated as QN
- Char. 21 To be indicated as QN

- NewChar.(after21) To Read “Terminal leaflet: width” with states: narrow (1),medium(3),broad(5). To be indicated as QN . Example varieties to be provided
- Char.22 To be indicated as QN . Amend “view” to be “few” in states 1 and 2. Example variety “Golden Bliss” to be added for state 9
- Char.23 To be indicated as QL. To have “Pedicel” replaced by “Peduncle.” Example variety “Golden Bliss” to be added for state 1
- Char.24 To be indicated as QN . To read “ Varieties with peduncle present only: Peduncle: intensity of anthocyanin.” Example variety “Schönemann” to be replaced by Julia
- Char.25 To be indicated as QN . Example variety “Schönemann” to be replaced by Isabel
- Char.26 To be indicated as QN . State 3 to read “horizontal to drooping”
- Char.27 To be indicated as QN . Example variety “Malling Orion” to be replaced by “Multiraspa”
- Char.28 To be indicated as QN . Example variety “Malling Promise” to be added for state 3. Example varieties to be presented in normal format
- Char.29 To be indicated as QN . Example variety “Meeker” to be added for state 5. Example varieties to be presented in normal format
- Char.30 To be indicated as QN . Example variety “Rafzeter” to be added for state 5. Example varieties to be presented in normal format. Footnote to be deleted
- Char.31 To be indicated as PQ . State 2 to read “ broad conical” and state 4 to read “ trapezoidal.” Footnote to be deleted
- Char.32 To be indicated as QN . Spelling of “Malling Orion” to be corrected.
- Char.33 To be indicated as PQ . To receive (\*). State 7 to read “ dark purple”
- Char.34 To be indicated as QN
- Char.35 To be indicated as QN
- Char.36 To be indicated as QN . Example variety “Jochims Roem” to be replaced by “Malling Landmark”
- Char.37 To be indicated as PQ . To have the states: on previous year’s cane in summer (1); both on previous year’s cane in summer and on current year’s cane in autumn (2); on current year’s cane in autumn ( 3) Example varieties to be: Malling Promise (1); Isabel (2); Autumn Bliss(3)
- Chars.38,40a,41a,42a To replace underlined part of characteristic heading with “ Varieties which fruit on previous year’s cane in summer :...”
- Chars.39,40b,41b,42b To replace underlined part of characteristic heading with “ Varieties which fruit on current year’s cane in autumn :...”
- Char.38 To be indicated as QN. Example variety “Delmes” to be added for state 5
- Char.39 To be indicated as QN.(+) to be added
- Char.40a To be indicated as QN
- Char.40b To be indicated as QN
- Char.41a To be indicated as QN. Example variety “Vene” to be added for state 1
- Char.41b To be indicated as QN
- Char.42a To be indicated as QN
- Char.42b To be indicated as QN. Example variety “Zefa 3” to be replaced by “Boheme.” Example variety “Autumn Bliss” to be added for state 5. Example variety “Korbfüller” to be replaced by “Polana”

8. Explanations on the Table of Characteristics

- Ad.31 State 2 to read “ broad conical” and state 4 to read “ trapezoidal.”  
Attachment to be shown on illustration
- Ads. 38,40a,41a,42a To explain that this applies to varieties with state 1 or 2 for characteristic 37
- Ads. 39,40b,41b,42b To explain that this applies to varieties with state 2 or 3 for characteristic 37

10. Technical Questionnaire

- 5.2 To read “Very young shoot: anthocyanin coloration of apex during rapid growth.”
- 5.3 To replace underlined part of characteristic heading with “ Varieties which fruit on previous year’s scane in summer :...”
- 5.5 State 2 to read “ broad conical” and state 4 to read “ trapezoidal.”
- 5.7 State 7 to read “ dark purple.”
- 5.9 To replace underlined part of characteristic heading with “ Varieties which fruit on previous year’s scane in summer :...”
- 5.10 To replace underlined part of characteristic heading with “ Varieties which fruit on current year’s scane in autumn :...”
- 6 Example to be “Fruit: color” with, e.g., dark red/purple

(b) Subgroup discussion on other draft Test Guidelines

Apricot (Revision), (TWF/33/13(TG/70/4(proj.1))

51. The expert from Hungary introduced document TWF/33/13(TG/70/4(proj.1)).
52. The Subgroup agreed the following changes:

Title page “Marille” to be added to German common names

- 2.2 To read “ The material is to be supplied in the form of one -year old grafts, budsticks or dormant shoots for grafting.”
- 5.3 Characteristic 52 to be deleted. Characteristic 46 to be added.
- 6.4 Different sets of example varieties to be developed for Mediterranean and Continental types of varieties and an explanation provided on how these types can be clearly differentiated.

7. Table of Characteristics

Example varieties to be moved to annex and presented in two sets.

Footnote proposal to be deleted.

All references to former characteristic numbers in the headings of the characteristics (e.g. (formerly No. 2)) or to a characteristic being “new” to be removed.



Char.1	To be indicated as QN
Char.2	To be indicated as PQ. State to be numbered 1,2,3,4,5
Char.3	To be indicated as QN . To read "Tree: branching."
Char.4	To be indicated as QN. State 2 to be swapped with state 3
Char.5	To be indicated as QN
Char.6	To be indicated as PQ. State 3 to read: purple brown
Char.7	To be indicated as QN
Char.8	To be indicated as QN
Char.9	To be indicated as QN
Char.10	To be indicated as QN
Char.11	To be indicated as QN
Char.12	To be indicated as PQ
Char.13	To be indicated as QN
Char.14	To be indicated as QN
Char.15	To be indicated as PQ
Char.16	To be indicated as QN
Char.17	To be indicated as QN. To have the states: straight or weakly concave(1), moderately concave(2), strongly concave(3)
Char.18	To be indicated as QN
Char.19	To be indicated as QN
Char.20	To be indicated as QN
Char.21	To be indicated as QN
Char.22	To be indicated as PQ
Char.23	To be indicated as QN
Char.24	To be indicated as QN
Char.25	To be indicated as QN. To read "Flower: position of stigma relative to anthers"
Char.26	To be indicated as PQ. State 3 to read "oblate"
Char.27	To be indicated as PQ
Char.28	To be indicated as QN. Missing note 3 to be inserted
Char.29	To be indicated as QN. Word "both" to be deleted from the Spanish column.
Char.30	To be indicated as PQ. State 4 to read "oblong." State 8 to be checked. example variety to read "Bergeron."
Char. 31	To be indicated as PQ. State 4 to read "oblong." State 8 to be added.
Char.32	To be indicated as QN
Char.33	To be indicated as QN
Char.34	To be indicated as PQ. To read "Fruit: symmetry in ventral view," with states 1,2,3
Char.35	To be indicated as QN
Char.36	To be indicated as QN
Char.37	To be indicated as PQ. State 4 to read "retuse."
Char.38	To be indicated as QL. "Mucon" to be amended to "Mucron."
Char.39	To be indicated as QL
Char.40	To be indicated as QL
Char.41	To be indicated as QN. To have the states: absent or weak (1); moderate(2); strong(3)
Char.42	To be indicated as PQ
Char.43	To be indicated as QN. To receive(*)
Char.44	To be indicated as PQ
Char.45	To be indicated as QN

- Char.46 TobeindicatedasPQ.Examplevariety“Chinan.1”tobechecked.
- Char.47 TobeindicatedasQN
- Char.48 TobeindicatedasQN
- Char.49 TobeindicatedasQN
- Char.50 TobeindicatedasQN
- Char.51 TobeindicatedasPQ
- Char.52 TobeindicatedasQN.(\* )tobedeleted.
- Char.53 TobeindicatedasQN
- Char.54 TobeindicatedasQN.

8. ExplanationsontheTableofCharacteristics

- Ad.13 “Dotmark”signforright-angletobeaddedtostate2
- Ad.15 Illustrationtobeimproved
- Ad.26 State3toread“oblate”
- Ad.30to33 Headingto be provided for “lateral view” and “ventral view.”  
Lateralviewtoshowpositionofsuturewithdottedline
- Ad.30to33andAd.30to31 Introductorytexttobedeletedandfruitshown  
withstalkatthebottom
- Ad.54 ExplanationfromEuropeanPlumtobe provided

10. TechnicalQuestionnaire

- 10.5 Characteristic52tobedeleted.Characteristic46tobeadded
- 10.6 Suitableexampletobeprovided.
- 10.7.3 ASW10tobeadded .

Apple(Revision),TWF/33/11(TG/14/9(proj.1))

- 53. The expert from the United Kingdom introduced document TWF/33/11 (TG/14/9(proj.1)).
- 54. TheSubgroupagreedtothechangessetoutinAnnexII.

Avocado(Revision),TWF/33/10(TG/97/4(proj.1))

- 55. The expert from Mexico discussed document TWF/33/10(TG/ 97/4(proj.1)) with the otherinterestedexperts.

CactusPear(Opuntia)TWF/33/9(TG/C -PEAR(proj.1))

- 56. TheexpertfromMexicointroduceddocumentTWF/33/9(TG/C -PEAR(proj.1)).
- 57. TheSubgroupagreedthechangessetoutinAnnexII.

Mango(Revision)TWF/33/16(TG/112/4(proj.1))

58. Document TWF/33/16(TG/112/4(proj.1)) was not discussed at the meeting due to lack of time.

Recommendations on Draft Test Guidelines (Plenary)

59. The TWF agreed that the following draft Test Guidelines would be sent to the professional organizations and then submitted to the TC for approval in April 2003, on the basis of the amendments presented in “(a) Discussion on draft Test Guidelines (Plenary)” and “(b) Subgroup discussions on final draft Test Guidelines.” The Office of the Union advised that the necessary amendments would be introduced by the Office with information provided by the leading expert:

Citrus: Grapefruit and Pummelos (Revision)  
Lemons and Limes (Revision)  
Mandarin (Revision)  
Oranges (Revision)  
*Poncirus*

Cherimoya  
Persimmon (Revision)  
Quince (Revision)  
Raspberry (Revision)

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

Apple (Revision)  
Apricot (Revision)  
Avocado (Revision)  
Cactus Pear (*Opuntia*)  
Mango (Revision)

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

Banana (*Musa* spp.) (Revision)  
Blackberry and Hybrid berries (Revision)  
Coffee: The TWF proposed to the TC that it should be the leading Technical Working Party for the Test Guidelines.  
Fig  
Passion Fruit (edible species)  
Pecan nut (*Carya illinoensis*)  
Pineapple

62. The leading expert and interested experts for the draft Test Guidelines to be discussed at the next session are represented in Annex III.

63. The TWF proposed to consider a revision to the Blackcurrant Test Guidelines, to start in 2004.

Future Program, Date and Place of the Next Session

64. At the invitation from Canada, the TWF agreed to hold its thirty-fourth session in Niagara Falls, from September 29 to October 3, 2003. During the thirty-fourth session, the TWF plan to discuss or 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. Standardized Explanation for "Maturity of Fruit" characteristics
8. TGP documents
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 conclusion of the session (if time permits)
14. Closing of the session

[Annex I follows]

ANNEXI

LISTOFPARTICIPANTS

I. MEMBERSTATES

ARGENTINA

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[AnnexII follows]



## ANNEXII

Test Guidelines for Apple (Malus Mill.)

(TWF/33/11- TG/14/9(proj.1))

The Subgroup agreed the following changes:

- 2.2.1.1.1 To insert between trees and budwood: “ on a rootstock specified by the competent authority”
- 3.3.3.1.1 To insert: “ Information on examining particular characteristics”
- 3.3.3.1 To insert: “ The Table of Characteristics provides notes which indicate the recommendations for observing characteristics as follows: ”
- 3.5.1 To add after... made on 5 plants “ or 2 parts taken from each of the 5 plants ”
- 3.5.2 To delete after made on 10 plants “ (2 parts taken from each of 5 plants) ”
- 4.2.1 To change the statement for 4.2.1 and 4.2.2 as follows: “The acceptable number of off -types tolerated in a sample size of 5 plants is none on the basis of a population standard of 1% and an acceptance probability of 95%. The acceptable number of off -types tolerated in a sample size of 10 plants is 1 on the basis of a population standard of 1% and an acceptance probability of 95%.”
7. Table of Characteristics
- Char.1 To be indicated as QN  
To add “very weak” and “very strong”  
To add example variety  
To add note 9
- Char.2 To be indicated as PQ
- Char.3 To be indicated as PQ  
To change in Spanish “erecto” to “erguido” and “rastreto” to “avierto”  
notes 1,2,3,4,5
- Char.4 To be indicated as PQ. To put “on spurs” in lowercase
- Char.5 To be indicated as QN. To change notes to 3,5,7 and 9  
To check the spelling of “Telemon”
- Char.6 To be indicated as QN. To add some example varieties: Florina 3, Redaphough 5
- Char.7 To be indicated as PQ. To add “dark brown” after “medium brown” and to add the note “4”
- Char.8 To be indicated as QN
- Char.9 To be indicated as QN
- Char.10 To be deleted
- Char.11 To be indicated as QN. To read: “Leaf blade: attitude” and to change notes to 1,2 and 3
- Char.12 To be indicated as QN
- Char.13 To be indicated as QN
- Char.14 To be indicated as QN
- Char.15 To be deleted
- Char.16 To be indicated as QN. To read: “Leaf blade: green color” and delete green from the states of expression

- Char.17 To be indicated as PQ. To have the states: crenate (1), bicrenate (2), bluntly serrate(3),serrate(4)andbiserrate(5)
- Char.18 To be deleted
- Char.19 To be indicated as QN
- Char.20 To be indicated as QN
- Char.21 To be indicated as QN. To read “Petiole: anthocyanin coloration”
- Char.22 To be deleted
- Char.23 To be indicated as PQ. To include Norhey as example variety for 1
- Char.24 To be indicated as QN. To change “size” to “diameter”
- Char.25 To be indicated as QN or PQ. To amend the heading to “arrangement of petals” and to check wording
- Char.26 To be deleted
- Char.27 To be deleted
- Char.28 To be indicated as QN. To read “Flower: position of stigma relative to anthers” below(1), same level(2), above(3)
- Char.29 Add “anthocyanin” before “overcolor”
- Char.30 Add “anthocyanin” before “overcolor”
- Char.31 To be indicated as QN. To amend “length” to “height”
- Char.32 To be indicated as QN. To read: “Fruit: width” and to replace small by “narrow” and large by “broad”
- Char.33 To be indicated as QN. To read: “ratio height/width”
- Char.34 To be indicated as QN. To replace the example variety “Empire”
- Char.35 To be indicated as QN
- Char.36 To be indicated as PQ
- Char.37 To be deleted
- Char.38 To be indicated as QN. To have the states: absent or weak(1), moderate(2) and strong(3)
- Char.39 To be indicated as QN. To have the states: absent or weak(1), moderate(2) and strong(3)
- Char.40 To be indicated as QN
- Char.41 To be deleted
- Char.42 To be indicated as QN
- Char.43 To be deleted
- Char.44 To be indicated as QN. To have the states: absent or weak(1), moderate(2) and strong(3)
- Char.45 To be indicated as QN. To have the states: absent or weak(1), moderate(2) and strong(3)
- Char.46 To be indicated as PQ
- Char.47 To be indicated as QN
- Char.48 To be indicated as PQ. To have the states: orange red(1), pink red(2), red(3), purple red(4) and brown red(5)
- Char.49 To be indicated as QN. To delete the examples varieties
- Char.50 To be checked (comment to be sent to the UK expert)
- Char.51 To be checked (comment to be sent to the UK expert)
- Char.52 To be indicated as QN. To delete (\*)

8. Explanation in the Table of Characteristics

- Ad.23: To read: “Balloon stage is the phenological stage in the course of flower development when the calyx is fully expanded and the petals are recognizable, having partially expanded and inflated but are closed, covering the internal flower organs. Balloon stage is usually 1 -2 days before the petals unfold.”

Test Guidelines for Cactus pear ( *Opuntia* spp. )

(TWF/33/9- TG/C -Pear(proj.1))

The Subgroup agreed the following changes:

Coverpage: To write “ssp.” in normal font (not italics)

1. To delete the name of author and write spp. in normal font (not italics)

5. To review the grouping of varieties (experts from Mexico and Israel)

7. Table of Characteristics

- Char.1 To be indicated as PQ. To amend “erecto” to “erguido” in Spanish
- Char.2 To be indicated as QN. To redraft “alto” in lower case in Spanish
- Char.3 To be indicated as QN
- Char.4 To be indicated as QN
- Char.5 To be indicated as QN. To put a space after “,” and before “Montesa”
- Char.6 To be indicated as QN. To amend “Large” to “large”
- Char.7 To be indicated as PQ
- Char.8 To be indicated as QN
- Char.9 To be indicated as PQ
- Char.10 To be indicated as QN. To have the states: very weak (1), weak (2) and strong (3)
- Char.11 To be indicated as QL. To read “Cladode: pubescence of surface” and change note to 1 and 2
- Char.12 To be indicated as QL. To change note 9 to 2
- Char.13 To be indicated as QN
- Char.14 To be indicated as PQ
- Char.15 To be indicated as QN
- Char.16 To be indicated as PQ
- Char.17 To be indicated as QL. To read “Cladode: number of colors on spine” with the states one (1) and two (2). To check the Spanish translation
- Char.18 To be indicated as QN. To delete “the” before longest spine
- Char.19 To be indicated as QN. To replace “the center” by “central spine” and to amend “erectas” to “erecta” and “horizontales” to “horizontal”
- Char.20 To be indicated as QL. To amend “grooves” to “grooved”
- Char.22 To be indicated as QL. To replace “straight” by “absent” (1) and “curved” by “present” (9). To check the Spanish translation
- Char.23 To be indicated as QL
- Char.24 To be indicated as PQ
- Char.25 To be indicated as PQ
- Char.25 To be indicated as QN
- Char.26 To be indicated as PQ
- Char.27 To be indicated as QN
- Char.28 To be indicated as QN. To read “Cladode: number of cladodes”
- Char.29 To be indicated as QN
- Char.30 To be indicated as PQ
- Char.31 To be indicated as sPQ
- Char.32 To be indicated as QN
- Char.33 To be indicated as PQ

- Char.34 TobeindicatedasQN
- Char.35 TobeindicatedasQN.Toamend“width”to“maximumdiameter”
- Char.36 TobeindicatedasQN.Toreplace“diameter”by“maximumdiameter”ssp.
- Char.37 TobeindicatedasPQandredraftexamplevariety“COPENA17”inuppercase
- Char.38 TobeindicatedasQN
- Char.39 TobeindicatedasQN
- Char.40 TobeindicatedasPQ
- Char.41 TobeindicatedasQN
- Char.42 TobeindicatedasQN
- Char.43 Tobeindica tedasQN
- Char.44 TobeindicatedasQN
- Char.45 TobeindicatedasQN
- Char.46 TobeindicatedasQN
- Char.47 TobeindicatedasQN
- Char.48 TobeindicatedasQL.Toamend“surfaces”to“surface”andnote9to2
- Char.49 TobeindicatedasPQ
- Char.50 TobeindicatedasPQ
- Char.51 TobeindicatedasQN
- Char.52 TobeindicatedasQN
- Char.53 TobeindicatedasQN
- Char.54 Tobe deleted
- Char.55 TobeindicatedasQN
- Char.56 TobeindicatedasQN
- Char.57 TobeindicatedasQN
- Char.59 Tobeindicated asQN
- Char.60 TobeindicatedasQN
- Char.61 TobeindicatedasQNanddelete(\*)
- Char.62 TobeindicatedasQN
- Char.63 Tobe deleted
- Char.64 Tobe deleted

Ad.7:Cladode:shape :Tobeimproved

Ad.29:Flower:length: Tobe deleted

Ad.42: Fruit:depressionofreceptaclescar :Todeletethefirstphotographfromeachofthe states3,5and7

## 10. TechnicalQuestionnaire

1.2 “spp.” Tobewritteninnormalfont(notitalics)

5.1to5.17: TouupdateaccordingtochangestotheTableofChar acteristics

6. Suitableexamplevarietiestobeprovided

[AnnexIIIfollows ]

## ANNEXIII

## LISTOFLEADINGAND INTERESTEDEXPERTS

Species	Basicdocument	Leadingexperts	Interestedexperts (countries) (fornameofexpertsseeListof Participants,AnnexI)
Apple <i>Malus</i> Mill	TG/14/9(proj.1)	Mrs.AlisonLean,GB	AR,AU,CZ,DE,ES,FR,HU, JP,MX,NZ,NL,PO,PT,RO, ZA,CPVO,IPGRI
Apricot ( <i>Prunusarmeniaca</i> L.)	TWF/32/15 TG/70/4(proj.1)	Mr.Harsányi,HU	AR,AU,ES,FR,IL,IT,NZ,RO, ZA,CPVO,IPGRI
Avocado ( <i>Perseaamericana</i> Mill.)	TG/97/3,TWF/31/8 TG/97/4(proj.1)	Mr.Barrientos -Priego, MX	AU,BR,ES,FR,IL,NZ,ZA, IPGRI
Banana(Revision) ( <i>Musa</i> spp )	TG/123/3	Mrs.Machado,BR	BR,ES,FR,IL,KE,SD,IPGRI
BlackberryandHybridberries	TG/73/6	Mr.Barnaby,NZ Mr.Schulte,DE	HU,UK,IPGRI
CactusPear ( <i>Opuntia</i> ,ssp )	TWF/32/7	Mr.Barrientos -Priego, MX	ES,IL,IT,ZA,IPGRI
Coffeeandtheirinterspecific hybrids	TWA/31/11	Mr.Eva,BR	IL,BR,FR,KY,MX,IPGRI
Fig( <i>Ficuscarica</i> )	TWF/30/4	Mr.Bar -Tel,ILand Mr.Bergamini,IT	AR,DE,ES,FR,JP,PT,IPGRI
Mango(Revision) ( <i>Mangiferaindica</i> L.)	TG/112/3	Mrs.Costa,AUand Mrs.Buitendag,ZA	BR,ES,IL,MX,IPGRI
PassionFruit(Fruitspecies)	New	Mr.Bar -Tel,ILand Mrs.Buitenda g,ZA	BR,KE,ZA,MX,JP,IPGRI
Pecannut	New	Mrs.Montes,AR	IL,BR,MX,IPGRI
Pineapple ( <i>Ananascomosus</i> )	New	Mr.Brand,FRand Mr. Salaiques,ES	BR,FR,KE,MX,PT,ZA,JP, IPGRI

[EndofAnnexIIIandofdocument ]