



TWF/36/8

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
FOR
FRUIT CROPS**

**Thirty-Sixth Session
Kôfu, Japan, September 5 to 9, 2005**

REPORT

adopted by the Technical Working Party for Fruit Crops

Opening of the Session

1. The Technical Working Party for Fruit Crops (TWF) held its thirty-sixth session in Kôfu, Japan, from September 5 to 9, 2005. The list of participants is reproduced in Annex I to this report.
2. The TWF was welcomed by Mr. Keiji Terazawa, Director of the Seeds and Seedlings Division at the Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF). A copy of his speech is reproduced in Annex II to this document.
3. The session was opened by Mr. Erik Schulte (Germany), Chairman of the TWF, who welcomed the participants, and in particular new participants, to the TWF. The TWF welcomed, as observers, seven experts who were participating in a training course on plant variety protection organized by the Japan International Cooperation Agency (JICA) during August to October 2005. Those experts were invited to introduce themselves to the TWF at the beginning of the session. The Chairman notified the TWF that Mr. Claude Hutin, the first Director of GEVES had died in May 2005. It was recalled that he was a Chairman of the Technical Working Party for Agricultural Crops (TWA), the Technical Working Party on Automation and Computer Programs (TWC) and the Technical Committee (TC) within the

period 1970 to 1987. Mr. Hutin had been an active supporter of the work of the TWF and the Technical Working Party for Ornamental Plants and Forest Trees (TWO) and had proposed the creation of the TWC in the 1980's.

4. The TWF received a presentation on DUS testing in Japan, a copy of which is reproduced in Annex III to this report.

Adoption of the Agenda

5. The TWF adopted the revised agenda as reproduced in document TWF/36/1 Rev.

Short Reports on Developments in Plant Variety Protection in Fruit Crops

(a) Reports from members and observers

6. The TWV received oral reports from the participants on developments in plant variety protection in their respective countries and organizations.

7. The expert from Germany reported that, in 2004, there were 520 applications under examination, 195 plant breeders' rights titles were granted and 2,790 titles were in force. There were 1,627 National List applications under examination, 261 varieties were added to the list and there were a total of 2,764 varieties on the National List. A total of 253 DUS reports concerning agricultural species and 957 DUS reports concerning horticultural species had been provided to the Community Plant Variety Office (CPVO). Between 1995 and 2004, the annual number of national plant breeders' rights (PBR) applications had decreased by 64%, whilst the total number of applications had increased by 41%. In the same period, the annual number of National List applications had decreased by 7%. In 2005, there were 175 PBR titles in force in Germany for fruit varieties and 152 applications under examination, with the main crops being apple (38 applications), strawberry (25), raspberry (18), blueberry (14), plum (14), pear (10), sea buckthorn (6) and Prunus rootstocks (5). A European Community comparative trial for strawberry had been conducted in Germany in 2005, with a total of 126 samples having been provided by 12 member States of the European Community. A descriptive variety list for raspberry and blackberry was to be published at the end of 2005 and would contain 71 varieties of raspberry and 20 varieties of blackberry.

8. The TWF heard from the expert from Mexico that by the end of 2004, a total of 569 PBR applications had been made representing 57 species. Of that total, 44% concerned agricultural crops, 27% ornamentals, 21% fruit crops, 7% vegetables and 1% others. The origin of the applications were 38% from Mexico, 37% from the USA, 10% from France, 8% from the Netherlands and 7% from other countries. Most of the applications were for maize and rose. The PBR office had been promoting the publication of illustrated guidelines, which included photographic illustrations of the characteristics, and that had been done with maize and with cactus pear and xoconoxtlés.

9. The expert from the European Community reported that 2650 applications had been received by the CPVO in 2004, of which 5.5% represented fruit species. Applications for varieties of fruit species in the period August 1, 2004, to July 31, 2005, showed a clear increase of 30% in comparison with the corresponding period in the previous year, with the overall number of applications increasing by 5.2%. In 2004, the largest number of

applications concerned peach and apricot, followed by grapevine. For the period August 1, 2004, to July 31, 2005, there was a clear increase in the number of applications for apple, apricot and strawberry compared to the previous year, while the number of applications for peach was stable. The CPVO organized technical examinations for blueberry, pineapple and GMO apple rootstock varieties for the first time in the preceding year. In Spring 2005, CPVO granted its 15,000th title, about 11,000 of which were currently in force. A further eight technical protocols, based on UPOV Test Guidelines, were introduced or revised and adopted by the Administrative Council of the CPVO. In 2004, CPVO contracted a specialized company to organize a consumer satisfaction survey, which showed that the satisfaction was high. On June 29, 2005, the European Community became the 59th member of UPOV. Delegations and competences were still to be defined. In particular, the relevant body of the European Community which will attend which UPOV meetings remained to be clarified. Although CPVO has been created to implement the Community plant variety rights system and has been attending UPOV meetings as an observer that did not mean that the CPVO would be empowered to represent the European Community within UPOV. Other issues such as voting aspects or coordination at European Community level also needed to be clarified. In July 2005, CPVO launched its web-based database on variety denominations. That database worked on the basis of the UPOV code and was created to facilitate the testing of variety denominations for similarity. It was intended to contain data from the EU Member States, Iceland, Norway and Switzerland collected by the CPVO, together with data from UPOV member States collected by UPOV in the framework of the UPOV-ROM Plant Variety Database. It was explained that collaboration between CPVO and UPOV in the development of their respective databases be reported under the relevant agenda item. Most EU countries had sent their contributions to the CPVO, but some had not been able to do so mainly because of the work necessary to convert national data into the requested format. A software which searches for similar denominations and ranks them by order of similarity is available on the website. At the beginning of October, in Brussels, CPVO was organizing a seminar on the enforcement of Community plant variety rights. The full program was available on the website of the CPVO. That seminar was planned to be followed by regional seminars in the EU in 2006.

10. The expert from Brazil reported that there had been a total of 937 applications for plant breeders' rights since the introduction of plant variety protection. Of those applications, most (65%) concerned agricultural species, with 4% concerning fruit crops. The main fruit crops were pineapple (3 applications), coffee (6), apple (9), pyrus rootstocks (1), grapevine (6) and strawberry (6). A total of 24 varieties of fruit crops had been granted protection. The expert reported on modifications which were being made to the law on plant variety protection concerning ornamental plants and fruit trees. A report was also made on the implementation of new seeds laws which concerned the control of farm-saved seed of varieties protected by PBR.

11. The TWF was informed that, in Japan, a total of 18,420 applications were filed during the period from 1978 to 2004. At the end of 2004, the total number of protection titles granted was 13,185. In 2004, 1,337 applications were filed, of which 469 applications (35% of the total) were filed by foreign applicants. 84% of the total applications were for flower and ornamental varieties, 4.7% for vegetable varieties, 3.5% for food crops and 3.4% for fruit trees. Since 1978, 833 applications had been filed for fruit varieties, of which 150 applications were for peach, 145 for citrus, 135 for apple, 50 for Japanese pear and 41 for cherry. The Seeds and Seedlings Law was amended in June 2005, to further strengthen the plant breeder's right. Firstly, the duration of protection was extended from 20 years to 25 years (in the case of woody plants, from 25 years to 30 years). Secondly, the breeder's

right was extended to cover products made directly from the harvested material of the protected variety. In order to help breeders to exercise their rights on such products, variety identification techniques based on DNA analysis had been developed for rice, red bean, kidney bean, rush (for Tatami mat), tea, wheat and strawberry. As the result of the amendment of the Custom Tariff Law in 2003, and in cooperation with the Ministry of Agriculture, Forestry and Fisheries, the Customs House can stop the import of products infringing plant breeders' rights. Furthermore, the National Center for Seeds and Seedlings (NCSS) appointed four Plant Variety Protection Advisers on April 1, 2005, with the task of offering consultation and advice on possible measures against infringements, collecting and providing information on infringements and providing expert opinion concerning the identity of varieties. Studies continued with the aim of developing techniques to identify varieties using DNA analysis. DNA analysis was enabling the identification of more than 200 rice varieties, as well as 46 tea varieties, 17 Japanese rush varieties and some red bean varieties.

12. Experts from the Republic of Korea reported that, as of July 31, 2005, a total of 1,347 applications for protection had been filed, of which 27% were for cereal varieties, 11% for vegetables, 5% for fruit, 49% for ornamentals, 7% industrial plants and 1% for other crops. A total of 66 titles of protection were now in force, of which 24% were for apple varieties, 32% for peach, 8% for grape and 1% for kiwi. The TWF was informed that the Republic of Korea would host the thirty-eighth session of Technical Working Party for Ornamental Plants and Forest Trees in Seoul, from September 12 to 16, 2005.

13. The expert from Hungary informed the TWF that the number of applications for plant breeders' rights received in 2004 had been lower than normal, with applications having been received for four grapevine rootstock varieties and two apricot varieties. Titles of protection had been granted to two varieties of strawberry and three varieties of apple. The National Institute for Agricultural Quality Control (NIAQC), which was responsible for DUS testing in Hungary, was being integrated as an examination office within the CPVO system, with one cherry variety having been granted protection by the CPVO on the basis of DUS testing in Hungary. The CPVO had also made requests for the taking over of DUS reports for a number of varieties of cherry. A total of 54 fruit varieties had been accepted on the National List including varieties of grapevine (28), apricot (4), apple (3) and raspberry (3), peach (2), blackcurrant (2), blueberry (2), pear (1), sweet cherry (1), sour cherry (1), jostaberry (1), blackberry (1) and strawberry (1). Applications for the National List had been received for grapevine (44 varieties), apple (7), strawberry (7), sweet cherry (1) and apricot (1). A meeting was being organized at NIAQC on September 7 and 8, 2005, to discuss cooperation in DUS testing with participants having been invited from Czech Republic, Hungary, Poland and Slovakia. Discussions would concern agricultural, vegetable and fruit variety testing.

14. An expert from South Africa reported that the division of variety control had been reorganized into the Directorate for Genetic Resources. The number of applications for fruit varieties was increasing and applications had been received for a native South African species (*Sclerocarya birrea*) for the first time. Eight applications had been made with two varieties having been granted protection.

15. The TWF heard from the expert from New Zealand that the overall number of PBR applications was stable, although there had been a decline in the number of applications for apple. He reported that applications had been received for mandarins for the first time for several years and noted the difficulty in determining the correct stage at which to start the examination in relation to the maturity of the plants. He recalled that the quarantine requirements in New Zealand meant that there could be delays before imported plant material

of varieties became available for the DUS examination. He informed the TWF that a draft law, incorporating the provisions of the 1991 Act of the UPOV Convention, had been released for consultation in August 2005. He also reported that, in 2005, the PVP office had been in operation for 30 years.

16. The expert from Israel reported that, since the introduction PBR in 1973, it had received around 3,800 applications and granted a total of around 2,900 PBR titles. Fruit varieties accounted for around 10% of the number of applications and grants, with the main species being Citrus (particularly mandarin), mango, avocado and strawberry. He explained that around 70% of applications were for ornamental varieties, for which there was an increasing trend for varieties to be protected in several countries. This emphasized the importance of international cooperation in DUS testing.

17. The expert from Slovakia explained that the majority of applications concerned agricultural species, particularly cereals and maize. She noted that, since Slovakia had become a member of the European Union there had been a significant decrease in the number of applications for plant breeders' rights and also reported that there had been a reduction in the number of breeders of small fruit, with grapevine breeding representing the main area of activity.

18. The TWF heard from the expert from Australia that, in October 2004, the PBR office had been moved from the Commonwealth Department of Agriculture to IP Australia within the Department of Industry, Tourism and Resources and noted that there would be reviews of the PBR activities over the coming years. The expert then reported on developments concerning the interactive variety description system (IVDS), which contained DUS trial data provided by the qualified persons responsible for DUS trials. It was intended that, in future, the IVDS would be made searchable to assist in the selection of similar varieties.

19. The TWF was informed that France conducted examinations for fruit varieties of European and tropical origin, for plant variety protection and national listing purposes, through GEVES. Fruit DUS examinations were also delegated to the National Agronomic Research Institute (INRA) and the French International Center for Research and Development (CIRAD). DUS testing was conducted on behalf of the French Plant Breeder's Right Board (CPOV) and the Community Plant Variety Office. Approximately 30 trials were conducted for national testing purposes, 10 trials for national plant variety protection and 50 trials for the CPVO and other authorities. In the year 2005 to August, France had added to the National List 8 peach varieties (35 varieties still under examination), 5 apple varieties (19 still under examination), 2 apricot varieties (10 still under examination), 1 pear variety and 7 other varieties, including cherry and Japanese plum still under examination. The National List contained approximately 1500 fruit varieties (mainly peach and apple), of which 900 were used for production and traded under the certification scheme. In 2002, GEVES signed bilateral cooperation agreements with other European institutes, to provide them with DUS examination reports, for example with Spain for almond and citrus, with Germany for berry fruit and with Italy for Japanese plum.

(b) Reports on developments within UPOV

20. The TWF received an oral report from the Office of the Union on the latest developments within UPOV.

Molecular Techniques

21. The TWF considered document TWF/36/2. It supported the proposal from the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) for the establishment of a crop subgroup for vegetatively propagated crops, on the basis that such a crop subgroup would include fruit species.

TGP Documents

22. The Office of the Union introduced documents TWF/36/3 and TC/41/5 Add. A presentation was also made on the use of TGP/5 “Experience and Cooperation in DUS Testing” Section 10 “Notification of Additional Characteristics”.

23. It was clarified that any proposals developed by the Technical Working Parties for revisions to document TGP/7/1 would be put to the Technical Committee.

24. The TWF considered the following TGP documents in conjunction with the comments made by the Technical Working Party on Automation and Computer Programs (TWC) and the Technical Working Party for Vegetables (TWV), as set out in document TWF/36/3, Annexes 1 to 5.

TGP/4 Constitution and Management of Variety Collections (document TGP/4/1 Draft 4)

25. The TWF discussed document TGP/4/1 Draft 4 and agreed to propose the following:

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| Section 1 | It was agreed that the introduction should explain the logic and reasoning behind the process of narrowing-down of the varieties of common knowledge in a way which inexperienced readers would understand and, in particular, to explain that the process avoided the need for side-by-side comparisons. |
| Sections 1 and 2 | To be indicated that a variety collection needs to be continuously updated and, in particular, needs to be reviewed in relation to each new variety application. |
| 2.1.1.2 (i) | to update the Test Guidelines reference numbers for apple and add a reference to the Test Guidelines for ornamental apple |
| 2.1.3.2 (iii) | the word “field” to be deleted from the penultimate sentence |
| 3.1.2.1.1 | to consider deleting the second row referring to authority responsible for the official register or to add an “X” to at least the columns for protected varieties and varieties on the market, since those authorities may have such varieties |
| 3.1.2.3.1 | first sentence to be deleted |

TGP/9: *Examining Distinctness (document TGP/9/1 Draft 4)*

26. The TWF discussed document TGP/9/1 Draft 4 and agreed to propose the following:

- Section 2: to consider adding “The most important consideration in selecting varieties for inclusion in the growing trial is the identification of the most similar varieties of common knowledge. Once identified, at least the most similar varieties should be included in the variety collection and the growing trial. Other similar varieties may be excluded on the basis of grouping characteristics”
- Introduction
- 2.1 to consider explaining that the types may, or may not be, types or groups identified within the Test Guidelines.
- 2.2 to add section 5.3.1.1 from the General Introduction (document TG/1/3)
- 2.2.2.2 “(first)” to be deleted
- 2.2.2.2 to clarify that, in some cases, Technical Questionnaire characteristics are not intended to be used as grouping characteristics
- 2.2.3 in accordance with the proposal of the TWV, to provide a more realistic example of grouping. The TWF also agreed that it should be clarified that, in some cases, there are many candidate varieties and the grouping may become more complex.
- 2.2.3.2 to reflect the fact that, for some crops e.g. fruit trees, there is no re-planting of the trial in the second growing cycle, although it is still possible to “group” in the sense of ignoring varieties in the trial which are already considered to be distinct.
- 2.2.3.2 to replace “trial” with “cycle”
- 2.3 title to read “Phenotypic distance estimation”
- 2.3.2.2 title to read “Other methods”
- 2.3.2.2 to consider adding “There are a range of other statistical methods in use in agricultural research that can be used in the examination of distinctness. Those include ANOVA and multiple range tests. Providing the underlying assumptions are met, those other statistical methods are as acceptable as the other methods mentioned in this section.”
- After 2.4 to consider including the supplementary methods set out in Chapter 6, except for randomized “blind” testing, and also adding the advice of breeders.
- 3.5 title to read “Organizing the growing trial layout”
- 3.5.1.3 in accordance with the proposal of the TWC, to avoid the use of an example involving color groups, to avoid confusion concerning “groups”.
- After 3.5 to consider including the supplementary methods set out in Chapter 6, except for randomized “blind” testing, and also adding the advice of breeders.
- 4 title spelling of “characteristics” to be corrected

- 4.1 to retain the indication of whether a characteristic should be observed visually (V) or measured (M), but not to include any indication of whether the observation should be made on single, individual plants or on groups of plants. It was noted that any reference to individual plants, if retained, should also make reference to parts of plants.
- 5.3.2.2.2 to change “meets” to “meet”
- 5.5 to be moved to section 2, or a reference to be made in Section 2
- 5.6 to delete the e.g.s “Chi square” and “COY; 2 x 1%” from VS and MS respectively
- 6 to consider moving sections 6.2 “Publication of variety descriptions”, 6.3 “Cooperation between members of the Union” and 6.4 “The advice of plant experts” to section 2, or duplicating in Section 2.

TGP/10: Examining Uniformity (document TGP/10/1 Draft 1)

27. The TWF discussed document TGP/10/1 Draft 1 and agreed to propose the following:

- General the TWF agreed that the detailed methodologies should be moved to TGP/8 “Use of Statistical Procedures in DUS Testing”
- 1.1 To make reference to the General Introduction (document TG/1/3), Section 6.2 “Relevant characteristics”
- 1.1.1 to consider stating that the environmental variation for pseudo-qualitative characteristics lies somewhere between that for qualitative and quantitative characteristics
- 1.1.1(c), (d) to amend “genotypical” to “genotypic”
- 1.1.3 to consider replacing reference to discontinuous and continuous variation with reference to qualitative and quantitative characteristics
- 1.2 to include guidance on determining off-type plants (see discussions on document TWF/36/7-TWO/38/9)
- 1.2.5 to note that “10.3.x” does not exist
- 1.3.3 Australia to provide examples for 1.6x variance and long term LSD
- 3.1.1 to be revised into the form of a summary and moved to the end of Section 3
- 3.1.4 to review whether such an explanation is appropriate in the light of sample sizes used in the Test Guidelines. The document should reflect the positive experience in UPOV with the existing sample sizes.

(b) *Other TGP documents*

TGP/8: Use of Statistical Procedures in DUS Testing (document TGP/8/1 Draft 1)

28. The TWF discussed document TGP/8/1 Draft 1 and noted that, on the basis of the TWC comments, that there would be substantial changes to the document in its next draft. It, therefore, agreed to make only general comments on the document as follows:

- General The TWF agreed with the TWV suggestion that the introduction and structure of TGP/8 should be based on the flow diagram in TGP/9, with indications of the stages at which statistical procedures could be applied. It also agreed that the reasons for the use of statistical procedures to be clarified at the beginning of the relevant links to the process of examining DUS. The TWF noted that the flow diagram in TGP/9 linked many TGP documents and proposed that reference should be made to the flow diagram in all the TGP documents and to consider making it the basis of TGP/1 “General Introduction With Explanations”
- The TWF agreed that it would be appropriate to consider if the Test Guidelines should specify if statistical methods were recommended for the DUS examination and, in cases where they were recommended, the type of analysis e.g. pair-wise comparisons.

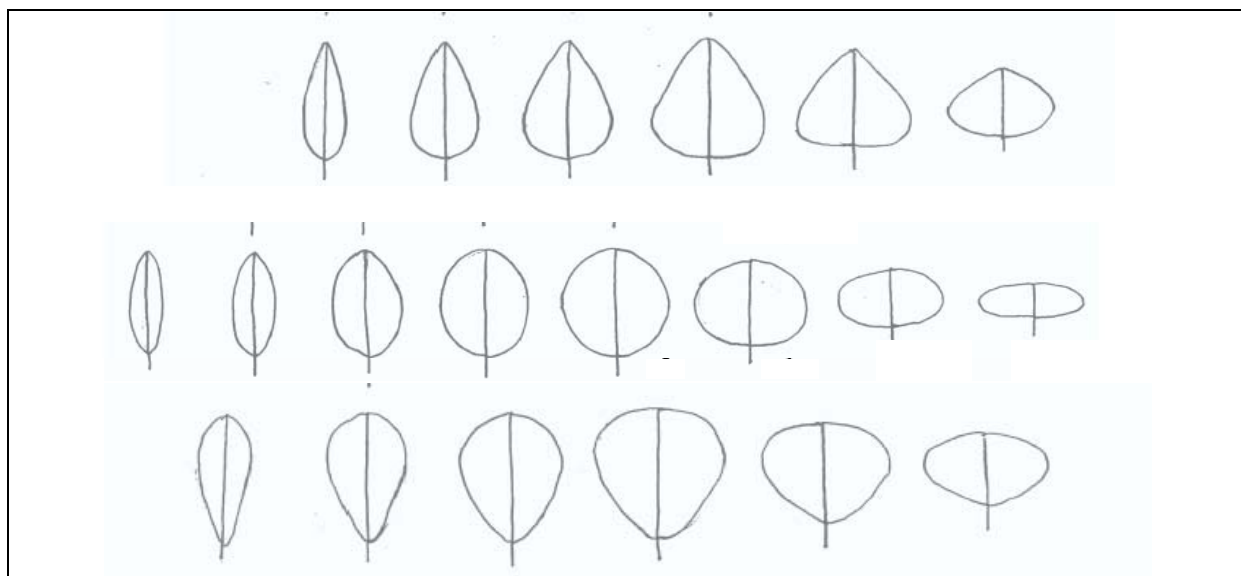
TGP/13: Guidance for New Types and Species (document TGP/13 Draft 3)

29. The TWF discussed document TGP/13/1 Draft 3, which was introduced by Mr. Jean Maison (CPVO), and agreed to propose the following:

- 2.1 to be revised to clarify that the document covered various possibilities of what might be considered as a “new” species, including:
- (a) species for which there had been no previous applications for protection within UPOV;
 - (b) species for which there had been no previous applications for protection and/or no DUS testing for the authority concerned; and
 - (c) species which had not previously existed (e.g. intergeneric and interspecific crosses
- and to reorganize the introduction accordingly
- 2.3.4 to explain how Test Guidelines could be developed by the Technical Working Parties in due course, if appropriate
- 2.4.3 it was agreed that, as proposed by the TWV, the text would need to be revised to avoid any indication that potential varieties of common knowledge could be discounted without consideration on a case-by-case basis.
- 4.1 to clarify, as suggested by the TWV, that new types of varieties related, in particular, to varieties propagated by methods which were new for the species concerned.

TGP/14 Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents: Section 2.1 (and 2.2): "Botanical Terms: Plant Shapes" (and "Botanical Terms: Hair Types") (document TGP/14.2.1 (and .2) Draft 4)

30. The TWF received a presentation from Mrs. Elise Buitendag (South Africa), Chairperson of the Plant Shapes Subgroup, on the conclusions of the meeting of the TWF members of the Plant Shapes Subgroup, which had taken place on September 5, 2005. It heard that two issues had been discussed. Firstly, there had been discussion on how it might be possible to define "apex" and "tip" characteristics in a more systematic way and whether it would be possible to avoid discriminating between the "apex" and "tip". Secondly, the presentation of plane shape characteristics had been reviewed. An idea under discussion had been to identify certain "core" or "basic" shapes which had a qualitative step between them (e.g. round, rhombic, square, hastiform, clawed), and to define ranges of shapes ("blocks") for certain "core" or "basic" shapes (particularly round, rhombic and square) which could be obtained by simply changing the position of the maximum width or the length/width ratio in a quantitative progression. For example, the block of round shapes would cover the following shapes:



In Test Guidelines where the varieties had more than one "core" or "basic" shape, the first shape characteristic would be for the "core" or "basic" shape to be described. However, if all varieties had the same "core" or "basic" shape, i.e. were all contained in, for example, the round block, such a characteristic would not be required. In that case, it would only be necessary to describe the position of the maximum width and/or the length, the width and the length/width ratio.

31. Mrs. Buitendag clarified that the concept was based on the recommendations put forward by the TWF at its thirty-fifth session. However, the idea was at an early stage and would need to be evaluated with a range of varieties before a firm proposal could be put forward. Any proposals would also need to be discussed by the full Plant Shape Subgroup, which it was hoped would meet in April 2006, in conjunction with the forty-second session of the Technical Committee.

32. The TWF agreed that the Plant Shape Subgroup should investigate the approaches on apex and tip characteristics and plane shapes outlined in the presentation.

TGP/14 Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents: Section 2.3.1 "Botanical Terms: Color: Color Characteristics" (document TGP/14.2.3.1 Draft 1)

33. The TWF considered document TGP/14.2.3.1 Draft 1, which was introduced by Mr. Jean Maison (CPVO).

34. The TWF noted at the start of its discussions that, given the particular importance of color characteristics for ornamental varieties, the document would be considered in detail by the TWO and decided to make only general comments at the session. However, it agreed that further written comments could be sent to the Office by the end of October, 2005 and, in particular, it was suggested that the definitions in Section 2.1 might be reviewed and proposals for amended text to be provided by that date.

35. The TWF agreed that all the examples should be put together at the end of the document. It further agreed that the example characteristics in the document should be incorporated into TGP/7: Annex 4 "Collection of Approved Characteristics". It noted that that might require the organization of the TGP/7 to be modified to some extent. It also agreed that the document should be coordinated with the sections in TGP/14.2.1 dealing with color patterns.

36. With regard to section 1.5, it was proposed that there should be some guidance on when it might, or might not, be appropriate to use a color chart. In section 1.6, it was suggested to provide some guidance on how to observe color in outdoor trials.

TGP/14 Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents: Section 2.3.2 "Botanical Terms: Color: Color Groups" (document TGP/14.2.3.2 Draft 3)

37. The TWF noted document TGP/14.2.3.2 Draft 3, which was introduced by Mr. Jean Maison (CPVO).

Use of TGP/7 in the Preparation of Test Guidelines

38. The TWF received a presentation from the Office on the use of the TG drafters' kit, as published on the UPOV website. The presentation explained, in particular, the use of the electronic template and the collection of approved characteristics (TGP/7 Annex 4). The TWF was also informed that the adopted Test Guidelines in Word format would be published in the first restricted area of the UPOV website in the new section "Drafters' kit for Test Guidelines".

UPOV Information Databases

39. The TWF considered document TWF/36/4 and received a presentation of the prototype GENIE database.

40. The TWF agreed that the participants at the session would check the UPOV code amendments as set out in Annex V of document TWF/36/4 and send any comments to the Office by no later than September 30, 2005. It was noted that the UPOV codes to be checked by countries which did not have participants at the TWF session would be checked by at least one participant at the TWF session and, on that basis, agreed that it would not be necessary to invite those countries to check the codes.

41. With regard to the introduction of UPOV codes in the data submitted for the UPOV-ROM, it was clarified that the Office should be sent the details of any genera or species for which a UPOV code had not been provided, in order that a code could be provided.

Variety Denomination Classes

42. The TWF considered document TWF/36/5 and concluded, with regard to the proposals on which the TWF were invited to consider in Annex II, Part I, as follows:

Proposal I-C: Mangifera to continue to follow the general rule (one genus / one class)

Proposal I-D: Prunus to continue to follow the general rule (one genus / one class)

Proposal I-E: Ribes to continue to follow the general rule (one genus / one class)

Proposal I-F: Rubus to continue to follow the general rule (one genus / one class)

Project to Consider the Publication of Variety Descriptions

43. The TWF considered document TWF/36/6 and received an oral report from Mr. Baruch Bar-Tel (Israel) on the work on the Model Study for Strawberry. It was agreed that the results of the Model Study for Strawberry should be presented at the thirty-seventh session of the TWF and, at that time, the issues raised in document TWF/36/8 could be considered further.

Criteria for Determining Off-type Plants

44. The TWF considered document TWF/36/7-TWO/38/9, which was introduced by Mr. Chris Barnaby (New Zealand).

45. It was agreed that the genetic background should be added as note (d) in paragraph 7 of document TWF/36/7-TWO/38/9. With regard to the guide for identifying off-types proposed in paragraph 13, it was agreed that it was necessary to ensure that any atypical expression had a genetic origin and was not an exclusively environmental effect. It was also noted that the DUS trial environment might trigger the development of atypical expression, which might not occur in the normal propagation environment.

46. The TWF discussed whether parts of plants showing atypical expression (e.g. one branch of a tree bearing atypical fruit, some leaves of a variegated plant without variegation etc) might be considered to be an off-type or to be lacking stability. It was noted that particular care would need to be taken with regard to considering whether a variety was unstable. For example, the method of propagation might ensure that atypical parts of the plant would not be propagated and, therefore, the characteristics of the variety would remain unchanged after repeated propagation.

47. Discussions took place on whether it would be appropriate to define a proportion of the plant having atypical expression which could be disregarded in the consideration of whether a plant was an off-type. It was noted that caution would be needed with such an approach because the proportion of the atypical part of the plant might increase over time.

48. The TWF noted that the type of off-types under discussion only occurred rarely and had not caused any significant problems when taking an overall perspective of the DUS examination. However, whilst the difficult situations were rare, it was recognized that when such situations occurred it could be beneficial to have some practical guidance available. On that basis, it was agreed to seek to develop guidance as far as possible and to propose to include that guidance in TGP/10 “Examining Uniformity”. As a next step, it was agreed that France, New Zealand and other members of the Union would prepare presentations on their experiences of plants with partial off-type expression for discussion at the thirty-seventh session of the TWF.

Discussion on Draft Test Guidelines

Avocado (Revision) (document TG/97/4(proj.4))

49. The subgroup discussed document TG/97/4(proj.4), as presented by Mr. Alejandro F. Barrientos-Priego (Mexico), and agreed the following changes:

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| 2.3 | to read “... 8 graft sticks, sufficient to produce 8 trees” |
| 3.3.2 | to be deleted |
| 6.5 | reference to A and B to be deleted |
| Table of Characteristics | Notes A and B to be deleted throughout |
| Char. 1 | (+) to be added with an illustration. Example variety “Wilg” to be replaced by “Nobel”. |
| Char. 4 | example variety “Wilg” to be deleted |
| Char. 5 | to be moved before Char. 4 |
| Char. 6 | “(during active growth)” to be deleted |
| Char. 7 | to read “Leaf blade: twisting along whole length” and to be moved before Char. 13. |
| Char. 12 | state 1 to be deleted |
| Char. 13 | to underline “of apex” |

- Char. 14 (+) to be added and illustration to be provided
- Char. 15 to be deleted
- Char. 16 to read “Leaf blade: relief of venation on upper surface”
- Char. 18 “the” to be deleted
- Char. 19 “very” to be deleted from state 1
- Char. 26 (+) to be added and note (f) to be deleted
- Char. 31 to read “Mature fruit: ratio length/maximum diameter”
- Char. 32 to have the states re-ordered as pointed (1), narrowly rounded (instead of rounded) (2); broadly rounded (3); truncate (4)
- Char. 34 to read “Mature fruit: presence of depression at stalk end”
- Char. 35 to read “Mature fruit: diameter of stalk attachment” with the states small (3); medium (5); large (7). (+) to be added with illustration.
- Char. 37 to read “Mature fruit: shape at stylar region”. State 3 to read “flattened”
Illustration to be provided by South Africa.
- Char. 38 notes to be corrected to 1, 2, 3
- Char. 40 state 1 to read “cream”. State 5 to be deleted.
- Char. 44 to be deleted
- Char. 45 to be moved after Char. 46
- Char. 46 to read “Pedicel: thickness compared to peduncle (at junction). State 2 to read “thicker”.
- Chars. 53, 54, 56, 57 “peel” to be replaced by “skin”
- Char. 59 “the” to be deleted. To check if state 3 should read “dry”.
- Char. 61 to read “Seed coat: degree of adherence to flesh” with the states: absent or weak (1); medium (2); strong (3). Example varieties to be provided. To be indicated as QN. To be moved before Char. 65.
- Char. 63 to read “Seed: shape in longitudinal section (lateral view)”. Order of states to be changed to triangular (1); ovate (2); depressed ovate (3); elliptic (4); circular (5); oblate (6)
- Char. 65 to read “Seed coat: degree of adherence to cotyledon” with the states: absent or weak (1); medium (2); strong (3). Example varieties to be provided. To be indicated as QN.
- Char. 67 to be indicated as QL and state 3 to be deleted
- 8.1 (e) final sentence to be deleted
- 8.1 (f) to become Ad. 26
- Ad. 21 illustration to indicate the axis
- Ad. 23 to provide a reference on how to observe the characteristic and to provide full reference details in Chapter 9.

- Ad. 37 to be replaced with diagrams where the stylar end is off-set from the midpoint
- Ad. 46 to provide an illustration where the pedicel is the same shape (columnar) in both states

Banana (Revision) (document TG/123/4(proj.3))

50. The subgroup discussed document TG/123/4(proj.3), as presented by Mrs. Vera Lúcia dos Santos Machado (Brazil), and agreed the following:

- Cover in the Latin names of hybrids, “x” to be replaced by a multiplication sign
- 2.2 to read: “The material is to be supplied in the form of corm (whole), rhizome or vitroplant.”
- 2.3 the minimum quantity of plant material to be “20 corms, rhizomes or vitroplants”
- 3.3.2 the word “[trees]” to be deleted, the square brackets around the word “plants” to be remove
- 3.3.3 the wording, in particular the meaning of “second ratoon”, to be checked by the leading experts
- 3.4.2 this question to be moved to Section 10 (TQ), in order to ask the applicant to specify the most appropriate spacing for the candidate variety
- 3.5 observations to be made on 15 plants or parts taken from each of 15 plants
- 5.3 the leading experts to check whether “8) Prata and Pomme” and “9) Plantain Horn or Terra” should be removed
- Char. 1 to read: “Ploidy”, the type of observation to be checked by the leading experts
- Char. 2 to receive VG, the time for observation to be specified in Section 8.2
- Char. 3 to receive VG/MS
- Char. 4 the spelling of the example variety “Ouro” to be corrected
- Char. 5 the states of expression to read: “conic (1), conic cylindrical (2), cylindrical (3)”, to receive a (+) and an explanation in Section 8.2
- Char. 6 the state of expression for note 6 to be “reddish green”
- Chars. 7, 8, 9 the wording of these characteristics to be checked by the leading experts
- Char. 10 to read: “Pseudostem: color on inner side of sheath base”
- Char. 11 the wording of this characteristic to be checked by the leading experts
- Char. 12 the state of expression “intermediate” to be replaced by “spreading”
- Char. 13 to read: “Petiole: orientation of wings (at base)” with the states of expression “spreading (1), erect (2), incurved (3), overlapping (4)”
- Char. 14 the wording of this characteristic to be checked by the leading experts

Char. 15	to read: Leaf blade: color of midrib on lower side”
Char. 16	to read: “Leaf blade: shape of base”, to receive QL
Char. 17	to read: “Leaf blade: waxiness on lower surface”, the leading experts to check the usefulness of this characteristic
Char. 20	the states of expression to be: “small (3), medium (5), large (7)”
Char. 21	the leading experts to check whether this characteristic should be deleted
Char. 23	the word “opaque” to be replaced by “dull”
Char. 24	the accent to be removed from the word “medium”
Chars. 25, 26, 27	the title to be checked by the leading experts (“Bunch peduncle” or “Peduncle”)
Char. 28	the states of expression to read: “semi-drooping (1), intermediate (2), horizontal (3), the leading experts to further check whether this characteristic refers to the “curvature of peduncle”
Char. 29	the states of expression to read: “cylindric (1), weakly conic (2), strongly conic (3)”
Char. 30	to read: “Bunch: attitude of hands” with the states of expression “all turned up (1), turned up and horizontal (2), all horizontal (3), the leading experts to further check the states of expression
Char. 31	the leading experts to check whether this characteristic should be deleted
Char. 32	to read: “Bunch: number of hands” with the states of expression “few (3), medium (5), many (7)”
Char. 33	to read: “Bunch: number of fruits per hand” with the states of expression “few (3), medium (5), many (7)”, the leading experts to check this characteristic is correlated with characteristic 32

51. It was not possible in the time available for the subgroup to complete the discussion of draft Test Guidelines for Banana and the leading expert from Brazil proposed that a subgroup meeting should be organized immediately prior to the thirty-seventh session of the TWF.

Blackberry (revision) (document TG/73/7(proj.3))

52. The subgroup discussed document TG/73/7(proj.3), as presented by Mr. Erik Schulte (Germany), and agreed the following:

General	all text in boxes and highlighting to be deleted
Cover page	Spanish common name to be changed to “Zarzamora”
Table of Characteristics	“MoE” column header to be deleted
Char. 9	Example variety “Black Satin” to be replaced by “Loch Ness”
Char. 11	“(on dormant canes)” to be deleted
Char. 12	“tip” to be replaced by “apex”

- Char. 15 (+) to be added and illustration to be provided. To have the states: absent or few (1) (example variety “Silvan”); medium (2) (example variety “Navaho”); many (3) (example variety “Karaka Black”)
- Char. 18 (+) to be added and illustration to be provided. To read “Terminal leaflet: lobing” with the states absent (1); present (9).
- Char. 20 Example variety “Hull Thornless” to be introduced for state 1. Example variety “Black Satin” to be replaced by “Loch Ness” and “Thornfree” for state 2.
- Char. 23 to be deleted
- Char. 25 to read “Leaf: type” and to be indicated as QL. To check if there is an appropriate botanical term for state 2.
- Char. 28 to read “Leaflet: type of incision of margin”
- Order of characteristics order of characteristics to be changed to: 20, 22, 28, 29, 21, 25, 26, 27, 23, 24
- Char. 32 to be deleted
- Char. 34 to have the example varieties: Himalaya (3); Taylor’s Prolific (5); Tayberry (very long) (9)
- Char. 35 to have the example varieties: Tayberry (3); Loch Ness (5); Douglas (very broad) (9)
- Char. 37 state 1 to be deleted
- Char. 39 state 4 to read “medium ovate”. State 6 to have “Karaka Black” as the example variety.
- Char. 42 to read “Flower: bearing on current year’s cane” with the states: absent (1); present (9) and to move after Char. 43
- Char. 44 to underline “on current year’s cane”
- Char. 45 to read “Time of beginning of flowering on previous year’s cane”. State 1 to have the example varieties “Loch Tay” and “Ranui”.
- new Char. (after 45) to read “Time of beginning of flowering on current year’s cane”
- 8.1 (d) to replace “2nd, 3rd and/or 4th” with “second, third and/or fourth”
- Ad. 12 illustration to clarify that the attitude of the apex should be observed and not the whole spine
- 9 Jennings reference to be completed

Blackcurrant (Revision) (document TG/40/7(proj.1)

53. The subgroup discussed document TG/40/7(proj.1), as presented by Mr.Chris Barnaby (New Zealand), and agreed the following:

1. to add *Ribes dikuscha* Fisch. Ex Turcz. and *Ribes ussuriense* Jancz.

- 2.2 to read: “The material is to be supplied in the form of hardwood cuttings (without roots), rooted hardwood cuttings or in the form of plants with at last three shoots.”
- 2.3 the minimum quantity of plant material to be:
10 hardwood cuttings (without roots)
5 rooted hardwood cuttings, or
5 plants with at least three shoots
- 3.3 the standard wording with MS and VS to be used
- 3.5 the number of plants/parts of plants to be examined to be 5; in the case of observation of parts taken from single plants, the number of parts to be taken from each of the plants to be 2
- 4.2.2 the second sentence to read: “In the case of a sample size of 5 plants, no off-type is allowed.
- 6.5 the standard wording with MS and VS to be used
- Char. 1 MG to be replaced with MS, the example variety “Strata” to be added to note 3
- Char. 2 the (+) to be deleted, the example variety “Westra” to be added to note 1
- Char. 3 VG/MG to be replaced by VG/MS; the example varieties “Baldwin Hilltop and Triton” to be added to note 1; the example varieties “Ben Nevis, Blacksmith” to be added to note 7
- Char. 4 to read: “One-year old shoot: color
- Char. 5 the example variety “Triton” to be added to note 1, to add a diagram
- Char. 6 MG/VG to be replaced by MS/VG
- Char. 7 to provide a diagram
- Char. 8 the state “absent or very weak” to be deleted if no example variety is proposed, the example varieties “Ben Lomond, Baldwin” to be added to note 5, the example variety “Mammoth” to be added to note 7
- Char. 9 the example variety “Roodknop” to be added to note 3, the example variety “Westwisk Choice” to be added to note 5, the example variety “French” to be added to note 7
- Char. 10 the example variety “Roodknop” to be added to note 3
- Char. 11 MG to be replaced by VG/MS, the example variety “Triton” to be added to note 3
- Char. 12 MG to be replaced by VG/MS
- Char. 13 to read: “Leaf blade: lobing”, the wording of the states of expression and the example varieties to be checked by New Zealand
- Char. 14 to read: “Leaf blade: base”; QN to be replaced by PQ, to add a diagram
- Char. 15 the word “strong” to be replaced by “dark”
- Char. 15a to add a new characteristic reading: “Leaf blade: glossiness” with the states of expression “weak (3), medium (5), strong (7)”

- Char. 17 to receive the qualification “Varieties with anthocyanin coloration only:”, to receive a (+) and an explanation in Section 8.1, the; the example variety “Hatton Black” to be added to note 2, the example varieties “Chershneva, Ometa, Titania,” to be added to note 3, the example variety “Cotswold Cross” to be replaced by “Lucnica”
- Char. 18 to be deleted
- Char. 19 QN to be replaced by QL, the wording for the states of expression and notes to be checked by New Zealand and Germany
- Char. 20 VG/MG to be replaced by VG, to be considered as a quantitative characteristic with a condensed range of states of expression and to the states of expression to be replaced by “short (1), intermediate (2), long (3)”
- Char. 21 VG/MG to be replaced by VG, the example variety “Ben Sarek” to be added to note 3, the example variety “Ben Alders” to be added to note 5
- Char. 22 the example variety “Ceres” to be added to note 7
- Char. 24 the example variety “Sarolata” to be added to note 3, the example variety “Titania” to be added to note 7
- Char. 25 to be considered as a quantitative characteristic with a condensed range of states of expression, the states of expression to be checked by New Zealand and Germany
- Char. 26 the example variety “Westwick Choice” to be added to note 2, the example variety “Titania” to be added to note 3
- Char. 27 the example variety “Costwold Cross” to be added to note 3, the example variety “Titania” to be added to note 5, the example variety “Ben Tirrin” to be added to note 7
- Char. 29 the example variety “Ben Lomond” to be added to note 5, the example variety “Hatton Black” to be added to note 7
- Char. 30 to read: Time of beginning of fruit harvest
- Ad.24 to read: “Fruit size is determined by the weight of a minimum of 50 berries. Sufficient berries should be harvested from the 5 plants and combined in a single container. The 50 berry sample is then randomly taken from the combined sample.”
- Section 9 to receive additional literature from New Zealand and Germany

Blueberry (Revision) (document TG/137/4(proj.1))

54. The subgroup discussed document TG/137(proj.1), as presented by Mr. Erik Schulte (Germany), Chairman of the TWF, on behalf of the leading expert, Ms. Julia Borys (Poland), and agreed the following:

- Cover *Vaccinium australe*, *V. brittonii*, *V. angustifolium*, *V. myrtilloides* and *V. ashei* to be added with their author names to be provided by the leading expert, the additional English names “Lowbush Blueberry to be added for *V. myrtillus* L., additional German names to be provided by Germany

1. to read: “These Test Guidelines apply to all varieties of *Vaccinium corymbosum* L. *V. myrtillus* L. *V. australe*, *V. brittonii*, *V. augustifolium*, *V. myrtilloides* and *V. ashei*, including their hybrids, of family *Ericaceae*.”
- 2.2 the words “in pots” to be deleted
- 2.3 the words “in pots” to be deleted
- 3.1.2 to be checked against the standard wording
- 3.3.2 to be deleted
- 3.3.3 to be replaced by the standard wording
- 4.2.2 the last part of the second sentence to read: “no off-type is allowed.”
- Char. 1 VG/MS to be replaced by VG, to receive a (+) and an explanation in Section 8.2
- Char. 2 to be deleted unless the leading expert provides an appropriate explanation in Section 8.2
- Char. 2a a new characteristic to be added to read: “One-year-old shoot: color” with the states of expression “reddish yellow (1), greyish red (2), reddish brown (3)”, to check whether other colors exist
- Char. 2b a new characteristic to be added to read: “One-year old shoot: length of internode (upper half)” with the states of expression “short (3), medium (5), long (7)” with an explanation to be included in Section 8.2
- Char. 3 to be split into three characteristics reading “Leaf: length” with the states of expression “short (3), medium (5), long (7)”, “Leaf: width” with the states of expression “narrow (3), medium (5), broad (7)” and “Leaf: ratio length/width” with the states of expression “small (3), medium (5), large (7)”
- Char. 5 to read: “Leaf: intensity of green color on upper side”
- Char. 6 to read: “Leaf: margin”
- Char. 6a a new characteristic to be added to read: “Inflorescence: length (excluding peduncle), QN, VG/MS” with the states of expression “short (3), medium (5), long (7)”
- Char. 7 the wording of this characteristic to be checked by the leading expert to clarify which part of the flower to be observed
- Char. 8a a new characteristic to be inserted to read: “Corolla tube: ridges, QL, VG” with the states of observation “absent (1), present (9), with an explanation in Section 8.2, to be provided by Japan
- Char. 8b a new characteristic to be added to read: “Plant: type of bearing, QL” with the states of expression “on one-year-old shoots only (1), on one-year-old and current season’s shoots (2)”
- Char. 9 the leading expert to clarify how this characteristic should be observed

- Char. 10a a new characteristic to be added to read: “Fruit: attitude of sepal” with the states of expression and example varieties “converging (1, Bluecrop, Sunshine Blue), erect (2, Blueray, Heidi), spreading (3, Top Hat), reflected (4)”
- Char. 10b a new characteristic to be added to read: “Fruit: diameter of calyx basin” with the states of expression “small (3), medium (5), large (7)”
- Char. 10c a new characteristic to be added to read: “Fruit: depth of calyx basin” with the states of expression and the example varieties “shallow (3, Tophat), medium (5, Blueray), deep (7, Heidi)”
- Char. 11 to be placed immediately after Char. 8b
- Char. 12 the state “very strong” to be deleted unless an example variety is provided
- Char. 13 the leading expert to check whether other colors exist
- Chars. 14, 15 the leading expert to provide explanation how these characteristics should be observed
- Char. 16 to read: “Time of vegetation bud burst”, VG to be replaced by MG
- Char. 17 to read : “Time of beginning of flowering on one-year old shoot”, VG to be replaced by MG
- Char. 18 New Zealand to check on which shoots this characteristic should be observed and to consider how to deal with time of fruiting on current-years-shoots, VG to be replaced by MG
- Ad. 2 to be checked by the leading expert
- Ad. 16 to read: “Observation should be made at the time when the vegetative buds begin to swell.”
- TQ,
Chap 7 to include additional questions to which of the following types the candidate variety belongs: Southern Highbush, Northern Highbush, Rabbiteye, Lowbush

Coffee (document TG/COFFEE(proj.3))

55. The subgroup discussed document TG/COFFEE(proj.3), as presented by Mrs. Vera Lúcia dos Santos Machado (Brazil), and agreed the following:

- Cover page the common names Coffee (English), Caf ier (French), Kaffee (German) and Cafeto (Spanish) to be added for *Coffea canephora*.
1. to delete the word “their”.
- 2.3 to read “The minimum quantity of plant material, to be supplied by the applicant, should be:
- i) Vegetatively propagated varieties: 5 plants;
 - ii) Seed-propagated varieties: 20 plants”

- 3.3.1 final sentence to read “In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.”
- 3.4.1 to read:
“3.4.1 For seed-propagated varieties: Each test should be designed to result in a total of at least 20 plants”
“3.4.2 For vegetatively propagated varieties: Each test should be designed to result in a total of at least 5 plants”
- 3.5 to be checked
- 4.2 to read:
“4.2.2 The assessment of uniformity for seed-propagated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.”
“4.2.3 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 5 plants, no off-types are allowed.”
- 6.4.2 to be deleted
- Table of Mexico to provide photographs to illustrate characteristics at the Characteristics thirty-seventh session of the TWF
- Char. 1 states to read: cylindrical (1); narrow conic (2); medium conic (3); ellipsoid (4) and obconic (6). State 5 to be checked and consideration to be given to a state “globose”.
- Char. 2 to check whether to add example variety “Robusta” for state 7.
- Char. 4 states 3 and 7 to read “few” and “many” respectively
- Char. 5 to read “Shoot: length of internode” and to be checked. Example varieties “Caturra” and “Typica” to be added for state 3.
- Char. 6 to read “Plagiotropic branch: intensity of ramification” and to check if it is necessary to differentiate between primary and secondary branching
- Char. 8 state 7 to read “wide”
- Char. 9 to be reviewed with illustrations of the existing shapes and other shapes to be provided by Mexico
- Char. 10 to read “Young leaf: color” and to check if state 2 is appropriate. (+) to be added with an explanation of the timing of the observation
- Chars. 11, 12 to be combined with 1 to 3, or 1 to 9 states, following checking by the leading expert
- Char. 13 to check with example varieties or illustrations

Hawthorn (document TG/HAWTH(proj.1)

56. The subgroup discussed document TG/HAWTH(proj.1) as presented by Mr. Alejandro F. Barrientos-Priego (Mexico), and agreed the following changes:

- 2.2 to read “The material is to be supplied in the form of graft sticks, grafted plants or plants on their own roots.”
- 2.3 to read “... 8 graft sticks or 5 plants”
- 3.3.2 to be deleted
- Char. 1 state 2 to be deleted
- Char. 2 state 4 to read “transverse ellipsoid”; state 6 to read “obovoid”
- Char. 4 to be deleted
- Char. 5 to consider replacing with “Plant: growth type”, with the states: bush (1); intermediate (2); tree (3), with (+) to be added and to be indicated as PQ.
- new Char. (after 5) to read “Tree: branching” with the states: candelabrous (1), normal (2), with (+) to be added and to be indicated as QL
- Char. 8 to be deleted
- Chars. 10, 11, 12 to read “thorns” instead of “spines”
- Char. 11 to have the notes 1, 2, 3
- Char. 14 to delete “s” from “internodes”
- Char. 17 to replace “low” with “small”
- Char. 18 (+) to be added. State 2: to consider changing to “involute”
- Char. 23 to check whether an intermediate state is appropriate, i.e. if it is a quantitative characteristic
- Char. 25 to check whether the entire leaf would be affected and then to reword accordingly
- Char. 28 to have the states small (3); medium (5); Large (7)
- Char. 34 (+) to be added with illustration or to return to the states: below (1); same level (2); above (3)
- Char. 36 to improve the illustration, including the addition of the filament
- Char. 40 to be deleted
- Char. 43 state 3 and 7 to be deleted
- Ad. 1 illustration for state 1 to be amended

57. The subgroup proposed that the TWO should be invited to participate in the development of the Test Guidelines for Hawthorn.

Hop (document TG/HOP(proj.2))

58. The subgroup discussed document TG/HOP(proj.2), as presented by Mr. Erik Schulte (Germany), and agreed the following changes:

6.5	to add “37-89 See Explanation in Section 3.3.1”
Char. 1	(+) and explanation to be deleted because covered by indication of 37-38
Chars. 2, 6, 11, 13, 14, 16, 17, 22, 24	states 1 and 9 to be deleted (no example varieties)
Char. 3	state 9 to be deleted (no example varieties)
Char. 5	to add “.” after 5
Char. 6	(+) or “67” to be deleted
Char. 7	(+) and explanation to be deleted because better covered by indication of 87-89 and example varieties. Example variety to be provided for state 2.
Char. 8	state 7 and state 6, in that order, to come before state 1
Char. 9	to clarify if the volume refers to absolute volume, or volume relative to the rest of the plant
Char. 10	state 1 to be deleted (no example varieties)
Char. 11	“upper third” to be underlined
Char. 12	to replace “leaves” with “foliage” and to have the states: sparse (3); medium (5); dense (7)
Char. 13	“mean” to be deleted and to check if “VG” is the correct method of observation
Char. 14	to check if this characteristic provides useful information and to check if “VG” is the correct method of observation
Char. 15	“upper third” to be underlined and to check if “VG” is the correct method of observation
Char. 18	to have the states: oblong (1); narrow ovate (2); medium ovate (3); broad ovate (4); circular (5)
Char. 19	to have the states: closed or weakly open (1); moderately open (2); strongly open (3)
Char. 20	to add “.” after 20. To read “Cone: intensity of green color”.
Char. 21	to have consistency between the English and German wording for resin/lupulin glands. To replace “low” with “sparse” and “high” with “dense”.
Char. 23	to read “Bract: ratio length/width” and to review the example varieties accordingly. To check if “VG” is the correct method of observation.
Ads. 8, 9	new illustration to be provided
Ad. 21	to be provided
Ad. 23	to be updated with changes in Table of Characteristics or to be deleted
Ad. 24	to indicate what part is to be observed
TQ 9	to be updated according to TGP/7

59. The TWF noted from Section 7.3 of the Technical Questionnaire that the Test Guidelines were intended to cover ornamental varieties and proposed that the TWO might be invited to participate in the development of the Test Guidelines for Hop.

Opuntia (partial revision) (document TG/217/2(proj.1))

60. The TWF discussed document TG/217/2(proj.1), as presented by Mr. Alejandro F. Barrientos-Priego (Mexico), and agreed the following changes:

Char. 52 to use the wording for the French and Spanish versions as used in TG/217/1

Mango (revision) (document TG/112/4(proj.4))

61. The subgroup discussed document TG/112/4(proj.4), as presented by Mrs. Elise Buitendag (South Africa), and agreed the following:

Table of Characteristics **“Changed”** notes to be deleted throughout. All references to “old” characteristic numbers in brackets after the characteristic number to be deleted.

Leading expert to review the list of example varieties provide by the JICA participant from the Phillipines and include example varieties which can be verified in South Africa.

Spelling of example variety “Chené” to be corrected throughout

Char. 2 to be indicated as QN

Char. 5 state 1 to be deleted (no example varieties)

Char. 6 to have the states ovate (1); elliptic (2); oblong (3)

Char. 9 to be deleted

Char. 20 “intensity of” to be deleted

Chars. 21, 22 state 1 to be deleted (no example varieties)

Char. 24 state 1 to read “medium elliptic”

Char. 29 to add note (e)

Char. 41 (+) to be added and illustration to be provided

Char. 43 to add the example varieties “Carabao” and “Ataulfo” for state 4 and “Shelly” for state 13

Char. 44 to add note (e)

Char. 47 to add the example varieties “Carabao” for state 3 and “Ataulfo” for state 4

Char. 51 to read “Ripe fruit: amount of fiber attached to stone”

new Char. to read “Ripe fruit: amount of fiber attached to skin”, with the states

- (after 51) low (3), medium (5), high (7) and to be indicated as QN
- Char. 54 to read “Seed: shape in lateral view”. (+) to be added and illustration to be provided. To have the states: oblong (1); semi-elliptic (2); reniform (3). To add “Carabao” as an example variety for state 2 (semi-elliptic).
- 8.1 (a) to add the word “made” before “on mature leaves...”
- 8.1 (e) to read “Observations on the lenticels and the speckling of the skin should be made on the lateral side of the fruit”
- Ad. 2 “at the tip of the shoot” to be deleted
- Ads. 16 -19 to delete some of the branches at the base of the inflorescence to leave some of the axis bare
- Ad. 30 to provide illustrations with more difference between states 1 and 2.
- Ad. 40 illustration for “1 absent” to be deleted and the text “9 present” to be deleted, leaving only the illustration showing the bulge
9. text in bold to be deleted. Reference for Singh, 1969 to be corrected and new reference for Campbell to be provided

Papaya (document TG/PAPAYA(proj.1))

62. The subgroup discussed document TG/PAPAYA(proj.1), as presented by Mr. Alejandro F. Barrientos-Priego (Mexico), and agreed the following:

- Cover the Spanish name “Papaya” to be deleted
1. to read: “These Test Guidelines apply to all seed-propagated and vegetatively propagated varieties of *Carica papaya* L.
- 2.2 to read: “The material is to be supplied in the form of seed or plants.”
- 2.3 the minimum quantity of plant material to be 200 seeds in the case of seed-propagated varieties, or 10 plants in the case of vegetatively propagated varieties
- 3.1.2 to be replaced with the standard wording for fruit species with no clearly defined dormant period (ASW3(b) of TGP7)
- 3.3.2 to be deleted
- 3.4.1 to read: “Each test should be designed to result in a total of at least 25 hermaphrodite plants in the case of seed-propagated varieties or, in the case of vegetatively propagated varieties, in a total of at least 10 hermaphrodite plants.”
- 3.5 the first sentence to read: “Unless otherwise indicated, all observations should be made on 25 hermaphrodite plants in the case of seed-propagated varieties or, in the case of vegetatively propagated varieties, on 10 hermaphrodite plants.
- 4.2.2 the leading expert to propose an appropriate method for the assessment of uniformity for seed-propagated varieties (cross-pollinated and hybrid

- varieties)
- 4.2.3 a new paragraph to be added for the uniformity assessment for vegetatively propagated varieties, reading: “For the assessment of uniformity for vegetatively propagated varieties, a population standard of 1% and an acceptance probability of 95% should be applied. In the case of a sample size of 10 hermaphrodite plants, one off-type is allowed.”
- 5.3 Characteristic 27 to be added as grouping characteristic
- Char. 2 to read: “Tree: number of stems”
- Char. 3 to read: “Stem: base diameter”, receive a (+) and an explanation in Section 8.2
- Char. 3a a new characteristic to be added to read: “Stem: diameter halfway between ground and first flower” with the states of expression “small (3), medium (5), large (7)” receive a (+) and an explanation in Section 8.2
- Char. 4 to read: “Stem: number of nodes from ground to first fruit”
- Char. 5 to read: “Stem: length of internode halfway between ground and first flower”
- Char. 6 to read: “Young tree: color of stem” with the states of expression “only green (1), brown (2), green and purple (3), only purple (4), to be placed before characteristic 1, to receive a (+) and an explanation in Section 8.2 to indicate that this characteristic should be observed when the first bud appears”
- Chars. 7,8 to be placed after characteristic 15
- Char. 8 to be split into two characteristic reading: “Petiole: green color” with the states of expression “light (3), medium (5), dark (7)” and “Petiole: anthocyanin coloration” with the states of expression “absent (1), present (9)”
- Char. 11 to read: “Leaf blade: ratio length/width
- Chars. 14, 15 the type of expression of characteristic (QL) to be checked by Brazil
- Char. 15 to read: “Leaf blade: pubescence”
- Char. 16 to have condensed notes “1,2,3”, the leading expert to propose an appropriate wording for the states of expression
- Char. 19 to read: “Tree: type of flowering”, to receive a (+) and an explanation in Section 8.2, to be placed before characteristic 16
- Char. 20 to read: “Tree: type of hermaphrodite”
- Char. 22 the states of expression to read: “white (1), cream (2), medium yellow (3), dark yellow to orange (4), medium green (5), dark green (6), yellow green and red purple (7), red purple (8), dark red purple (9)”
- Char. 27 to read: “Fruit: ratio length/width, receive an asterisk
- Char. 28 to read: “Fruit: shape” with the states of expression “ovoid (1), ellipsoid (2), globose (3), obovoid (4), pyriform (5), oblong (6), constricted at middle (7)”

- Char. 29 the states of expression to read: “pointed (1), rounded (2), truncate (3), depressed (4)”
- Char. 29a a new characteristic to be added to read: “Fruit: shape at distal end” with the states of expression “rounded (1), weakly pointed (2), strongly pointed (3)”
- Char. 30 to read: “Fruit: diameter of stylar scar”, to receive a (+) and an explanation in Section 8.2 to indicate the point for observation
- Char. 31 to read: “Fruit: main color”
- Char. 32 to have notes “1,2,3”
- Char. 33 to read: “Fruit: prominence of ridges”, to have notes “1,2,3”
- Chars. 34 to replace (f) with (g), explanation for (g) to be developed for inclusion in Section 8.1
- to 38
- Char. 34 to read: “Ripe Fruit: thickness of skin” , to have notes “1,2,3”
- Chars 35 the word “Fruit” to be replaced with “Ripe Fruit”
- to 38
- Char. 38 the word “mild” to be replaced by “weak”
- 8.1 (a) to read: “Tree and Stem: All observations on the tree and stem should be made at the beginning of fruit maturity.”
- 8.1 (b) to read: “Leaf blade and petiole: All observations on the leaf blade and the petiole should be made on mature leaves. Leaves should be taken from the middle third of the current season’s growth at the beginning of fruit maturity.”
- 8.1 (f) to read: “Peduncle, fruit and seed: All observations on the peduncle, fruit and seed should be made on 5 typical fruits from hermaphrodite flowers, taken from a minimum sample of 10 fruits at the time of maturity for harvest.
- 8.1.(g) explanation on “Ripe fruit” to be developed by the leading expert

Passion Fruit (document TG/PASSI(proj.1))

63. The subgroup discussed document TG/PASSI(proj.1), as presented by Mrs. Elise Buitendag (South Africa), and agreed the following:

- Cover Title of the document in English to be “Granadilla, Passion Fruit”, the Latin name to be “*Passiflora edulis* Sims”
- 1 to read: “These Test Guidelines apply to all varieties of *Passiflora edulis* Sims of the family *Passifloraceae*, including sub-species *edulis* and *flavicarpa* Degener.
- 1.2 to be deleted
- 4.2.2 the second sentence to be deleted
- Section 7 the example varieties “Makatini A, B, C” to be deleted from the Table of

General	characteristics as being obsolete
Char. 1	to read: “Vine: color”, to replace (a) by a (+), to receive an explanation in Section 8.2 reading “The color of the vine should be observed on the current season’s growth.”
Char. 1a	a new characteristic to be added to read: “Vine: number of flowers” with the states of expressions “few (3), medium (5), many (7)” and with an explanation in Section 8.2, to be provided by Brazil, to specify the timing, parts of vine and number of days for observation
Char. 3a	a new characteristic to be added to read: “Leaf blade: degree of lobing” with the states of expression “weak (3), medium (5), strong (7)”
Char. 3b	a new characteristic to be added to read: “Leaf blade: incision of margin” with the states of expression “weak (3), medium (5), strong (7)”
Char. 4	to read: “Leaf blade: width of middle lobe”
Char. 5	to read: “Leaf blade: green color”
Char. 6	to be deleted
Char. 7	the states of expression to read: “absent or weak (1), medium (2), strong (3)”
Char. 7a	a new characteristic to be added to read: “Petiole: length” with the states of expression “short (3), medium (5), long (7)”
Char. 7b	a new characteristic to be added to read: “Petiole: position of nectaries” with the states of expression “adjacent to leaf blade (1), distant from leaf blade (2)” with an explanation to be provided by Israel
Char. 14	to read: “Flower: intensity of color of spotted ring in throat” with the states of expression “light (3), medium (5), dark (7)”
Char. 14a	a new characteristic to be added to read: “Flower: diameter of corona” with the states of expression “small (3), medium (5), large (7)” and example varieties to be provided by Japan
Chars. 15, 16	the example varieties “Common purple, Ester” to be deleted
Char. 17	the states of expression to read “light (3), medium (5), dark (7)”
Char. 18	to read: “Flower: spots on distal part of corona filaments”
Char. 19	to read: “Flower: number of spots on distal part of corona filaments”
8.1 (c)	the explanation on the observation on the flower to receive a diagram of flower to clarify the parts of flower to be observed

64. It was not possible in the time available for the subgroup to complete the discussion of draft Test Guidelines for Granadilla.

Pecan Nut (document TG/PECAN(proj.3))

65. The subgroup discussed document TG/PECAN(proj.3), as presented by Mr. Baruch Bar-Tel (Israel) in the absence of the leading expert, and agreed the following:

- | | |
|----------------|---|
| Cover | the Latin name in the title to be " <i>Carya illinoensis</i> (Wagenh.) K.Koch" |
| 2.2 | to read: "The material is to supplied in the form of dormant budstick." |
| 2.3 | the minimum quantity of plant material to be 10 dormant budsticks, the second sentence to be deleted |
| 3.5 | the word "plants" appearing three times to be replaced by "trees" |
| 4.2.2 | the last sentence to read: "no off-type is allowed" |
| 5.3 | to delete "(a) Stigma: color (characteristic 17)" |
| Chars. 7 to 14 | to receive an explanation in Section 8.2 to indicate the point for observation |
| Char. 11 | to read: "Lateral leaflet: presence of petiole" |
| Char. 12 | to read: "Lateral leaflet: asymmetry" |
| Char. 13 | to read: " <u>Only varieties with asymmetric leaflets</u> : Lateral leaflet: position of longer side of leaflet" with the states of expression "toward apex of leaf (1), toward base of leaf (2)" |
| Char. 14 | to read: "Lateral leaf: curvature of longitudinal axis", to be placed after Characteristic 10 |
| Char. 15 | PQ to be replaced with QL |
| Char. 18 | to be placed before Characteristic 15 |
| Char. 20 | to read: "Husk: prominence of ribs" |
| Char. 24 | the states of expression to read: "ovate (1), elliptic (2), circular (3), obovate (4), oblong (5)" |
| Char. 25 | the states of expression to read: "ovate (1), elliptic (2), circular (3), obovate (4), oblong (5)" |
| Char. 26 | to read: "Nut: shape in cross section with suture in vertical position" |
| Char. 27 | to read: "Nut: shape of apex in lateral view" with the states of expression "acute (1), obtuse (2), rounded (3)" |
| Char. 27a | a new characteristic to be added to read: "Nut: length of apical point" with the states of expression "short (3), medium (5), long (7)" |
| Char. 27b | a new characteristic to be added to read: "Nut: length of basal point" with the states of expression "short (3), medium (5), long (7)" |
| Char. 28 | to be deleted |
| Char. 29 | to read: "Nut: intensity of ground color" |
| Char. 30 | to read: "Nut: area covered by spots" |
| Char. 31 | to receive notes "3,5,7" |
| Char. 32 | to read: "Nut: thickness of partition wall" with notes "3,5,7" |

- Char. 34 to read: “Kernel: weight” with the states of expression “light (3), medium (5), heavy (7), to be placed before Characteristic 32
- Char. 35 to read: “Kernel: intensity of color”
- Char. 36 to be placed after characteristic 32
- Char. 39 to read: “Persistence of rachis on tree”
- Section 8 explanations/drawings to be reincluded where necessary

Pineapple (document TG/PINEAP(proj.2))

66. The subgroup discussed document TG/PINEAP(proj.2), as presented by Mr. Richard Brand (France), and agreed the following:

- Cover to delete (edible varieties) from the title of the document
- 1. to read: “These Test Guidelines apply to all varieties of *Ananas comosus* (L.) Merr. of the family Bromeliaceae.
- 2.2 to read: “The material is to be supplied in the form of aerial suckers.
- 2.3 to be deleted
- 2.4 the minimum quantity of plant material to be 20 aerial suckers
- 2.6. 2.7 to be deleted
- 3.3.2 to be replaced with the standard wording on “the stage of development for the assessment”, the definitions of different stages to be placed after Section 8.2, where 1-T to read “at vegetative maturity growth stage immediately before the emergence of inflorescence”, an indication to be inserted that the emergence of inflorescence should be invoked artificially.”
- 3.4.2, 3.4.3 to be deleted
- 3.5 observations to be made on 20 plants or parts taken from each of 20 plants
- 4.2.2 the second sentence to read: “In the case of a sample of 20 plants, one off-type is allowed.
- 5.3 the second sentence to be deleted
- Section 7 all variety group names (Queen, Cayenne) to be replaced by individual variety names, for example “Cayenne, S.Cayenne” to be replaced by “Smooth Cayenne”
- General
- Char.1 to read: “Plant: foliage habit”, to receive QN, VG, to receive notes 1,3,5
- Char. 2 to read: “Plant: number of leaves” with the states of expression “few (3), medium (5), many (7)”
- Char. 3 to read: “Leaf: length”, to delete the example variety “Perola”
- Char. 4 to read: “Leaf: width”

- Char. 5 to be deleted
- Char. 6 to read: “Leaf: main color” with the states of expression “green (1), reddish (2), purplish (3)”
- Char. 6a a new characteristic to be added to read: “Leaf: intensity of green color” with the states of expression “light (3), medium (5), dark (7)”
- Char. 7 to read: “Leaf: variegation (on upper side)
- Char. 8 to read: “Leaf: distribution of variegation (on upper side)
- Char. 9 to receive QL
- Char. 10 to read: “Leaf: intensity of anthocyanin coloration (on upper side)
- Chars. 11, 12 France to check whether these characteristics should be deleted

67. It was not possible in the time available for the subgroup to complete the discussion of draft Test Guidelines for Pineapple and it was proposed that a subgroup meeting should be organized immediately prior to the thirty-seventh session of the TWF.

Sea Buckthorn (document TG/HIPPH(proj.1))

68. The subgroup discussed document TG/HIPPH(proj.1), as presented by Mrs. Bronislava Batorova (Slovakia), and agreed the following:

- Cover English and French names to be checked
- 2.2 to read: “The material is to be supplied in the form of one-year well-rooted plants with at least two shoots.”
- 3.1.2 to be checked against the standard wording
- 3.3.3 to be delete
- 4.2.2 to read: “no off-type is allowed”
- 5.3 (d) to be deleted, characteristic 7a “Shoot: thorns” to be added as an additional grouping characteristic
- Chapter 7 transcription of Russian variety names to be checked
- General
- Char. 1 the state of expression “bushy” to be replaced by “bush”, the pictures in Section 8.1 to be improved
- Char. 2 to read: “Plant: attitude of branches”, the state of expression “drooping” to be replaced by “arching”
- Char. 4 the explanation in Section 8.2 to be improved
- Char. 6 to read: “Shoot: position of inflorescences”, the state of expression for note 2 to read: “both on one-year-old and older shoots”
- Char. 7 the state of expression “very thick” to be deleted
- Char 7a to insert a new characteristic reading: “Shoot: thorns (QL, VS)” with the states of expression “absent (1) with an example variety to be proposed

- by Hungary, present (9) with example varieties “Vitaminaja, Slovan, Bojan, Leikora”
- Char. 8 to read: “Shoot: number of thorns (from middle part to top)”
- Char. 8a to insert a new characteristic reading: “Shoot: length of thorns (QN, VS)” with the states of expression “short (1), medium (2), long (3)”
- Char. 9 the states of expression to be checked
- Chars.11, 12 to be deleted
- Char. 13 to be split into two characteristics reading: Char. 13 “Leaf: color of upper side” with the states of expression “green (1) (Dorana, Leikora, Pollmix 1, silverish (2) (Bojan, Maslicnaja, Slovan)” and Char. 13 “Varieties with green color of upper side only: Leaf: intensity of green color of upper side” with the states of expression “light (1), medium (2), dark (3)”
- Char. 15 to be deleted
- Char. 17 the state of expression for note 5 to read: inverted pear-shaped
- Char. 21 the asterisk to be deleted, VS/VG to be replaced by MG/VG, to receive a (+) and an explanation in Section 8.2, reading “Time of beginning of flowering” is when 20% of flowers buds are fully open”
- Char. 22 to read: “Time of fruit maturity”, to receive a (+) and an explanation in Section 8.2 reading “Time of fruit maturity is when at least 90% of fruits have achieved full color.”
- TQ to delete be 5.4, to include Char. 7a
Section 5

Sour Cherry (revision) (document TG/CHERRY-SO(proj.2))

69. The subgroup discussed document TG/CHERRY-SO(proj.2), presented by Mr. József Harsanyi (Hungary), and agreed the following changes:

- Table of Characteristics to amend example variety “Morellenfeuer” to “Kelleriis 16”
- Char. 1 to amend the example varieties as follows:
state 1: Demesova, Kelleriis 14, Samor
state 3: Gerema, Nana
- Char. 5 to amend the example varieties as follows:
state 5: Érdi bötermő, Meteor Kokai, Schattenmorelle
- Char. 17 to read “Leaf: presence of nectaries”
- Char. 18 to read “Nectaries: color”. Example varieties “Újfehértói fürtös” (state 1) and “Morsam” (state 5) to be deleted

- Char. 19 to read “Nectaries: position”. State 1 to read “at the base of the leaf only” and state 3 to read “on petiole only”. To be moved before Char. 18.
- Char. 21 to read “Stipule: extensions of margins”
- Char. 22 to be moved before Char. 20
- Char. 24 example variety “Érdi bőtermő” (state 1) to be deleted
- Char. 29 state 1 to read “pointed”
- Char. 35 to correct spelling of “abscission”
- Char. 36 to amend the example varieties as follows:
state 6: Érdi jubileum, North Star
- Char. 38 state 2 to read “light yellow”
- Char. 40 example variety “Favorit” (state 3) to be deleted
- Char. 41 state 1 to read “low” and state 7 to read “high”
- Char. 42 “,” to be deleted after last example varieties in states 5 and 7
- Char. 47 to check suitability of example variety “Tarina” for state 1. To delete example variety “Nana” from state 9.
- Ad. 24 to have a single entry for “2 intermediate” midway underneath the two illustrations for that state
- 8.3 to amend to have the example variety as “Kelleriis 16” with “Morellenfeuer” as the synonym. To add “Łutówka” as a synonym of “Schattenmorelle”
- TQ 9 to be updated according to TGP/7

Sweet Cherry (revision) (document TG/CHERRY-SW(proj.2))

70. The subgroup discussed document TG/CHERRY-SW(proj.2), presented by Mr. József Harsanyi (Hungary), and agreed the following changes:

- 2.3 “(one-year-old grafts)” to be deleted
- 5.3 to add characteristic 33 “Fruit: firmness”
- Table of Characteristics example variety “Hedelfinger” to be replaced by “Hedelfinger Riesenkirsche”. To check alphabetic order of example varieties.
- Char. 1 to amend the example varieties as follows:
state 3: Sumpaca, Szomolyai fekete
state 5: Stella, Sumtare, Kordia
- Char. 2 to amend the example varieties as follows:
state 1: Lapins, Melitopol’skaya rannyaya
state 3: Sumtare, Vega, Vera
state 4: Annabella, Jaboulay

- Char. 4 to amend the example varieties as follows:
state 1: Drogan's Gelbe Knorpelkirsche
state 9: Aida, Merton Heart, Pat
- Char. 5 to be indicated as QN
- Char. 9 example variety "Hedelfinger" to be deleted
- Char. 12 example variety "Hedelfinger" to be deleted
- Char. 22 state 1 to read "pointed"
- Char. 27 to amend the example varieties as follows:
state 6: Burlat, Kordia, Lapins
state 8: Annabella, Knauffs Schwarze, Namosa
- Char. 30 to have the notes 1, 2, 3
- Char. 31 state 1 to read "cream" and state 4 to read "medium red"
- Char. 32 state 2 to read "light yellow"
- Char. 33 to amend the example varieties as follows:
state 3: Early Rivers
state 5: Kordia, Sunburst
state 9: Kavics, Sumtare
- Char. 34 state 1 to read "low"
- Char. 35 state 1 to read "low" and state 7 to read "high"
- Char. 37 to insert note "9" for very large
- Char. 40 to amend the example varieties as follows:
state 1: Müncheberger Frühernte
state 3: Lapins, Marmotte, Sumtare
state 5: Merton Glory, Napoléon, Sumele
- Char. 41 to amend the example varieties as follows:
state 3: Burlat, Early Rivers, Valerij Chkalov
state 9: Hudson, Regina, Vittoria
- Ad. 19 to have a single entry for "2 intermediate" midway underneath the two illustrations for that state
- 8.3 to add example variety "Burlat" with the synonym "Hâtif Burlat" and to add example variety "Hedelfinger Riesenkirsche" with the synonym "Hedelfinger"
- TQ 5 to add characteristic 33 "Fruit: firmness"
- TQ 9 to be updated according to TGP/7

Recommendations on Draft Test Guidelines

71. The TWF agreed that the draft Test Guidelines below would be sent to the TC for adoption at its forty-second session, to be held in Geneva from April 3 to 5, 2006, on the basis of the following documents with the amendments presented in this document:

Avocado (Revision)	TG/97/4(proj.4)
Blackberry and Hybrid berries	TG/73/7(proj.3)
Hop	TG/HOP(proj.2)
<i>Opuntia</i> Mill. (Revision)	TG/217/2(proj.1)
Mango (Revision)	TG/112/4(proj.4)
Sour Cherry (Revision)	TG/CHERRY-SO(proj.2)
Sweet Cherry (Revision)	TG/CHERRY-SW(proj.2)

72. It was noted that the Office would incorporate the amendments specified in this document in order to prepare the draft Test Guidelines for the TC. The leading experts noted that they were not required to submit revised draft Test Guidelines, but were required to provide the Office with all the information necessary for the document to be finalized.

73. The TWF decided to re-discuss the following draft Test Guidelines at its next session:

Banana (*Musa* spp) (Revision)
Black Currant (Revision)
Blueberry (Revision)
Coffee
Fig (*Ficus carica*)
Grapevine (*Vitis* L.) (Revision)
Hawthorn (*Crataegus* spp.)
Papaya (*Carica papaya* L.)
Passion Fruit (Fruit species)
Pecan nut
Pineapple (*Ananas comosus*)
Sea Buckthorn (*Hippophaë* L.)

74. The TWF decided to start discussions on the following draft Test Guidelines at its thirty-seventh session:

Cacao (*Theobroma cacao* L.)
Peach (Partial Revision)
Strawberry (Revision)

75. The TWF proposed that the TWO should be invited to participate in the development of the Test Guidelines for Hawthorn and the Test Guidelines for Hop.

76. The TWF noted that it had not been possible in the time available for the subgroups to complete the discussion of draft Test Guidelines for Banana and the draft Test Guidelines for Pineapple and agreed that a subgroup meeting should be organized immediately prior to the thirty-seventh session of the TWF in order to advance those Test Guidelines in an effective way.

77. It was agreed that progress on the development of the draft Test Guidelines might be improved by issuing a guideline date for circulation of a discussion draft amongst the subgroup of interested experts. That deadline would be set suitably in advance of the deadline for the submission of draft Test Guidelines to the Office for the TWF session. It was noted that it had not been possible for a draft of the Test Guidelines for Grapevine to be developed for discussion at the thirty-sixth session of the TWF and it was agreed that those Test Guidelines might be advanced by a double round of discussion drafts before the thirty-seventh session of the TWF.

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

79. The TWF decided to consider discussing the following draft Test Guidelines at its thirty-seventh session:

Dragon-fruit (*Hylocereus undatus* (Haw.) Britton et Rose)

Durian

Rambutan

Pistachio (*Pistacia vera* L.)

Pomegranate (*Punica granatum* L.)

Solanum muricatum Aiton (Melon-pear, Pepino)

Date and Place of the Next Session

80. At the invitation of the expert from the Brazil, the TWF agreed to hold its thirty-seventh session in Salvador, Bahia State, Brazil, from August 21 to 25, 2006.

Future Program

81. The TWF proposed to discuss the following items at its next session:

1. Opening of the Session
2. Adoption of the agenda
3. Short reports on developments in plant variety protection.
 - (a) Reports from members and observers (oral reports by the participants).
 - (b) Reports on developments within UPOV (oral report by the Office of the Union).
4. Molecular Techniques

5. TGP documents
6. UPOV Information Databases
7. Project to consider the publication of variety descriptions
8. Criteria for determining off-type plants
9. Variety denomination classes
10. Discussion on draft Test Guidelines (Subgroups)
11. Recommendations on draft Test Guidelines
12. Date and place of the next session
13. Future program
14. Report of the session (if time permits)
15. Closing of the session

Medal

82. Mr. Erik Schulte (Germany) was awarded a UPOV bronze medal in recognition of his chairmanship of the TWF from 2003 to 2005.

Technical Visits

83. On the afternoon of September 7, 2005, the TWF made a technical visit to Yamanashi Fruit Tree Experiment Station in Yamanashi Prefecture, which included a tour of one of their grape variety trials. Later that afternoon, a visit was made to Uehara Grapes & Vines Institute, where the TWF was welcomed by Mr. Nobuhiro Uehara and had the opportunity to sample a wide range of grape varieties bred by Mr. Nobuhiro Uehara and his father.

84. The TWF adopted this report at the close of the session.

[Annexes follow]

ANNEX I

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[Annex II follows]

ANNEX II

OPENING ADDRESS BY MR. KEIJI TERAZAWA

Sept. 5 2005

Good morning, Ladies and Gentlemen,

My name is Keiji Terazawa, Director of Seeds and Seedlings Division, Ministry of Agriculture, Forestry and Fisheries. It is my honor to make the opening address of TWF in front of the experts from all over the world.

First of all, let me express my feelings; Welcome to Japan! I am really happy to see you here although Japan is a country of far away for most of you.

Japan has been supporting activities run by UPOV to harmonize world PVP systems. Thus, we have hosted Technical Working Parties in Japan, because these meetings treat a wide range of essential issues for the international harmonization of PVP system including Test Guidelines, TGP documents and so on.

We are now in Kofu. Kofu is famous for fruit cultivation, especially grape, peach, plum, and cherry, and this is why we chose this city for TWF meeting of this year. As grape is now in the harvest season, we have the opportunity to try some varieties during the excursion on Wednesday afternoon. You also have opportunity to see Japanese cultivation methods for fruit trees. I hope you enjoy not only the discussions in Test Guidelines, but also the harvest season of grapes in Japan.

Let me briefly explain the present situation of Japanese plant variety protection system. The number of applications for PVP has been increasing year by year since Japan joined UPOV in 1982. Last year, the number of applications was about 1,130 annually. 79% of all applications were for ornamental plants, 7% were for vegetables, and 6% were for fruit. I think it is worth noting that the applications of foreign-bred varieties are also increasing and it was about 28 % of total applications last year.

I believe such an active registration and internationalization in Japan is a consequence of becoming an UPOV member country. In order to cope with such increasing applications, we continue to discuss the improvement of PVP system in Japan for more efficient management.

Recently, the Seeds and Seedlings Law was amended, to further strengthen PBR, based on the recent development of variety identification by DNA analysis techniques. There are two main points to the amendment: the first point is the expansion of coverage of the breeder's right to products made directly from harvested material of a protected variety. The second point is the extension of duration of breeder's right by 5 years. After the revision, the period is now 30 years for woody plants and 25 years for other plants.

In conclusion, I am looking forward to the fruit of the TWF session, which is the advance of international harmonization resulting from good discussions on Test Guidelines and TGP documents by the experts from UPOV members.

Thank you for your attention.

[Annex III follows]

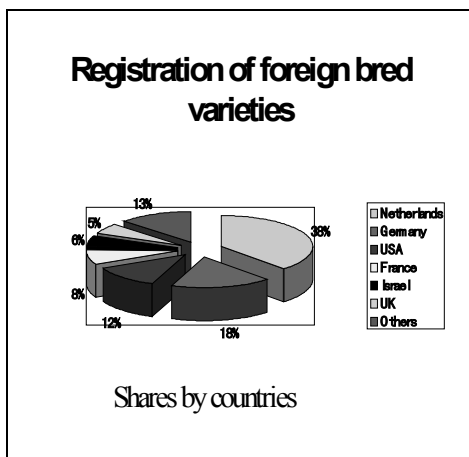
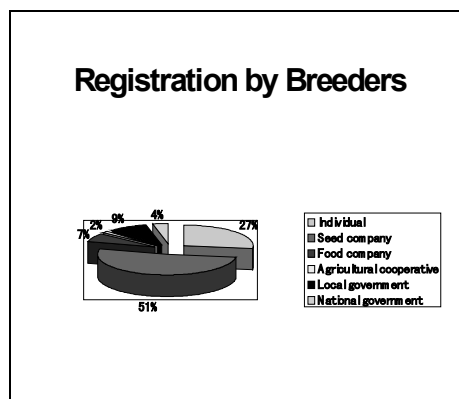
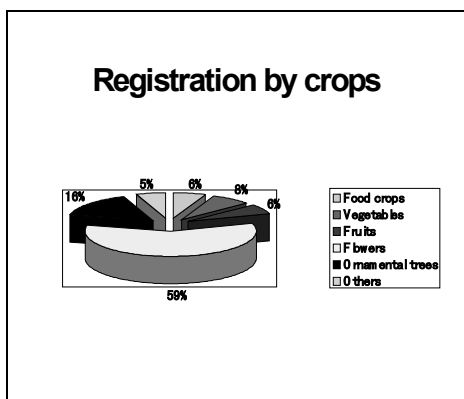
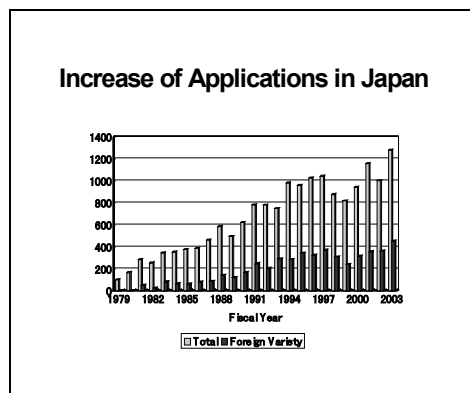
OVERVIEW OF DUS EXAMINATION IN JAPAN

Mr. Mitsuru Kameya

TWF/36/8, Annex III

**Overview of DUS Examination
in Japan**

Mitsuru Kameya
Seeds and Seedlings Division
MAFF



Organization for PVP system

- λ Seeds and Seedlings Division
- λ Incorporated Administrative Agency

Ministry of Agriculture, Forestry and Fisheries (MAFF)

National Center for Seeds and Seedlings (NCSS)

- Division
 - λ Variety Registration
 - λ Production, Marketing and Consumption of Seeds and Seedlings
 - λ Supervision of NCSS
- PVP Office
 - λ Establishment of Test Guidelines
 - λ Examination

- λ DUS Test
- λ Inspection of Seeds and Seedlings
- λ Production of Foundation Seeds
- λ Conservation of Genetic Resources
- λ Research Activities

Seeds and Seedlings Division (MAFF)

- | | |
|--|--------------------------------|
| λ Division | λ PVP Office |
| - Director | - Director |
| - Planning (2) | - Examination Management (3) |
| - Administration (3) | - Chief Examiner |
| - International Affairs (2) | - Senior Examiner (4) |
| - Variety Registration (3) | - Examiner (17) |
| - Seeds and Seedlings Industry (3) | |
| - Seeds and Seedlings Production (2) | |

THE LOCATIONS OF NCSS



DUS Test Methods

- λ Growing Test (NCSS)
- λ On-site Inspection
- λ Documentary Examination

Growing Test

- λ Conducted by NCSS
- λ 500 Candidate Varieties/ Year
- λ Planning to increase the number of test
Target: 1000 varieties until 2009
- λ Improving facilities and increasing experts

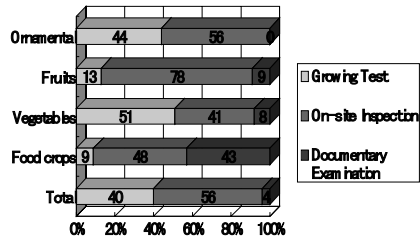
On-site Inspection

- λ DUS test in corporation with breeder
- λ Mainly for Plants which require special facilities and /or long time
(ex. Orchids, Fruit trees, Mushrooms, Forest trees)
- λ Breeders with enough knowledge, experiences, and facilities
- λ PVP Office designs the test and chooses similar varieties
- λ An Examiner with an expert of relevant species examine DUS of the candidate variety.

Documentary Examination

- λ Bred by former National Agricultural Research Institutes
- λ Sufficient and reliable data for DUS examination
- λ Mainly for Agricultural crops

Examination Methods



Challenges for future development of PVP System in Japan

- λ Reduction of average duration from application to registration
- λ International Cooperation in DUS Test
- λ Measures against infringement of PBR

Reduction of average duration from Application to Registration

- λ The duration has slowly decreased
– 3.1 years in 2004
- λ Our target is 2.5 years by 2009

Application Fee and Registration Fee

Application Fee · 47,200 Yen

Registration Fee

Years from Registration	Registration Fee
1-3 Years	¥6,000 per year
4-6 years	¥9,000 per year
7-9 years	¥18,000 per year
10-25 years	¥36,000 per year

No Examination Fee and DUS Test Fee

Thank You



[Annex IV follows]

ANNEX IV

LIST OF LEADING EXPERTS

**DRAFT TEST GUIDELINES TO BE SUBMITTED
TO THE TECHNICAL COMMITTEE IN 2006**

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

before October 25, 2005

Test Guidelines	Document	Leading expert(s)
Avocado (Revision)	TG/97/4(proj.4)	Mr. Barrientos-Priego (MX)
Blackberry and Hybrid berries	TG/73/7(proj.3)	Mr. Schulte (DE), Mr. Barnaby (NZ)
Hop	TG/HOP(proj.2)	Mrs. Rücker (DE) (TWA)
<i>Opuntia</i> Mill. (Revision)	TG/217/2(proj.1)	Mr. Barrientos-Priego (MX)
Mango (Revision)	TG/112/4(proj.4)	Mrs. Buitendag (ZA)
Sour Cherry (Revision)	TG/CHERRY-SO(proj.2)	Mr. Harsanyi (HU)
Sweet Cherry (Revision)	TG/CHERRY-SW(proj.2)	Mr. Harsanyi (HU)

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

before July 7, 2006

**(Guideline date for Subgroup draft to be circulated by Leading Expert: May 5, 2006
Guideline date for comments to Leading Expert by Subgroup: June 9, 2006)**

Species	Basic Document	Leading expert(s)	Interested experts (countries) ¹
Blackcurrant (Revision)	TG/40/7(proj.1)	Mr. Barnaby (NZ)	CA, CZ, DE, HU, PL, SK
Blueberry (Revision)	TG/137/4(proj.1)	Mrs. Julia Borys (PL)	AU, AR, DE, HU, JP, NZ, ZA
Hawthorn (<i>Crataegus</i> spp.)	TG/HAWTH(proj.2)	Mr. Barrientos-Priego (MX)	DE, NL
Pecan nut	TG/PECAN(proj.3)	Mr. Labarta (AR) (e-mail: mlabar@mecon.gov.ar)	BR, IL, MX, ZA, IPGRI

¹ for name of experts, see List of Participants

DRAFT TEST GUIDELINES TO BE DISCUSSED AT TWF/37

New draft to be submitted to the Office of the Union

before July 21, 2006

(Guideline date for Subgroup draft to be circulated by leading expert: May 5, 2006

Guideline date for comments to leading expert by Subgroup: June 9, 2006)

Species	Basic Document	Leading expert(s)	Interested experts (countries) ¹
Banana (<i>Musa</i> spp) (Revision)	TG/123/4(proj.3)	Mrs. dos Santos Machado (BR)	AU, ES, FR, IL, KE, ZA, IPGRI
Cacao (<i>Theobroma cacao</i> L.)	New	Mrs. dos Santos Machado (BR)	FR, MX
Coffee	TG/COFFEE(proj.3)	TWA (BR)	KE, MX
Fig (<i>Ficus carica</i>)	TWF/30/4	Mr. Chomé Fuster (ES)	AR, DE, ES, FR, IL, JP, PT, IPGRI
Grapevine (<i>Vitis</i> L.)	TG/50/8	Mr. Chomé Fuster (ES), Mr. Schulte (DE)	AR, AU, BR, CA, CZ, FR, HU, IL, KR, NZ, JP, MX, SK, ZA
Papaya (<i>Carica papaya</i> L.)	TG/PAPAYA(proj.1)	Mr. Barrientos-Priego (MX)	AU, BR, IL, MX, ZA
Passion Fruit (Fruit species)	TG/PASSI(proj.1)	Mr. Venter (ZA)	BR, IL, JP, KE, MX, ZA, IPGRI
Peach (Partial Revision)	TG/53/6 (TWF/37 document to specify proposed changes)	Mr. Brand (FR)	AU, CPVO, HU, JP, KR, MX, NZ, ZA
Pineapple (<i>Ananas comosus</i>)	TG/PINEAP(proj.2)	Mr. Brand (FR) and Mr. Salaices (ES)	AU, BR, JP, KE, MX, PT, IPGRI
Sea Buckthorn (<i>Hippophae</i> L.)	TG/HIPPH(proj.1)	Mrs. Bátorová (SK)	DE, FR, HU, PL, RO
Strawberry (Revision)	TG/22/9	Mr. Nakamura (JP)	AU, BR, CPVO, DE, FR, HU, IL, MX, NZ, SK, ZA

DRAFT TEST GUIDELINES TO POSSIBLY BE DISCUSSED IN 2007

Species	Basic Document	Leading expert(s)	Interested experts (countries) ¹
Dragon-fruit (<i>Hylocereus undatus</i> (Haw.) Britton et Rose)	New	Mr. Barrientos-Priego (MX)	IL
Durian	New	Mr. Schulte (DE)	
Rambutan	New	Mr. Schulte (DE)	MX
Pistachio (<i>Pistacia vera</i> L.)	New		ES, IL
Pomegranate (<i>Punica granatum</i> L.)	New		ES, IL
<i>Solanum muricatum</i> Aiton (Melon-pear, Pepino)	New	Mr. Richard Brand (FR)	ES, IL, NZ

[End of Annex IV and of document]