



TC/43/13

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

**TECHNICAL COMMITTEE**

**Forty-Third Session**  
**Geneva, March 26 to 28, 2007**

REPORT<sup>1</sup>

*adopted by the Technical Committee*

Opening of the Session

\*1. The Technical Committee (TC) held its forty-third session in Geneva from March 26 to 28, 2007. The list of participants is reproduced in Annex I to this report.

\*2. The session was opened by Mrs. Julia Borys (Poland), Chairperson of the TC, who welcomed the participants, especially those from Morocco and Viet Nam, which had become members of the Union since the forty-second session of the TC, held in Geneva from April 3 to 5, 2006, taking the number of members of the Union to 63. She noted that, in addition, Ukraine had acceded to the 1991 Act of the UPOV Convention since that session.

Adoption of the Agenda

\*3. The TC adopted the agenda as presented in document TC/43/1, with the amendment under agenda item 6 (b) that the document reference for TGP/12 "Special Characteristics" be changed from "TGP/12/1 Draft 2" to "TGP/12/1 Draft 1". It was also agreed that, in order to prioritize the available time with respect to agenda item 6 "TGP documents", the documents

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\* The asterisked paragraphs in this report are reproduced from document TC/43/12 (Report on the Conclusions).

falling within Section (c) “Revision of TGP documents” should be considered before those within Section (b) “Other TGP documents”.

Report on Developments in UPOV Including Relevant Matters Discussed in the Last Sessions of the Administrative and Legal Committee, the Consultative Committee and the Council

4. The Vice Secretary-General provided an oral report on the fifty-third and fifty-fourth sessions of the Administrative and Legal Committee (CAJ), the seventy-first and the seventy-second sessions of the Consultative Committee and the twenty-third extraordinary session and the fortieth ordinary session of the Council as follows:

*Administrative and Legal Committee (CAJ)*

5. At its fifty-third session, held in Geneva on April 6, 2006, the CAJ received an oral report from the Chair of the TC on the forty-second session of the TC, held in Geneva, from April 3 to 5, 2006. With regard to the situation in UPOV concerning the possible use of molecular markers in DUS examination, the CAJ took note of the conclusion of the TC that it would not be appropriate to rework document TC/40/9 Add. and the reaffirmation of the support of the TC for the presentation of the situation as set out in documents TC/38/14-CAJ/45/5 and TC/38/14 Add.-CAJ/45/5 Add..

6. The CAJ considered the Draft explanatory notes on variety denominations under the UPOV Convention and agreed on a text which was adopted by the Council in October 2006 as document UPOV/INF/12/1.

7. At its fifty-fourth session, held in Geneva on October 16 and 17, 2006, the CAJ considered drafts of documents TGP/4 “Constitution and [Management] / [Maintenance] of Variety Collections”, TGP/9 “Examining Distinctness” and TGP/10 “Examining Uniformity”. It considered the proposals of the BMT Review Group concerning the possible use of molecular tools for variety identification and agreed that the matter should be reconsidered after the advice of the Consultative Committee had been received.

8. In 2005, the CAJ agreed to the establishment of an advisory group, the “Administrative and Legal Committee Advisory Group” (Advisory Group) to assist the CAJ in the preparation of information materials concerning the UPOV Convention. The first session of the Advisory Group took place in Geneva on October 20, 2006. That first session discussed certain substantive matters: for example, with regard to the possible development of a document TGP/3 “Varieties of Common Knowledge” it concluded that the General Introduction already provided guidance with respect to the term “common knowledge” and that it would not be appropriate, for the time being, to pursue the development of document TGP/3 “Varieties of Common Knowledge”. It also endorsed a particular scheme representing the relationship between an initial variety and essentially derived varieties as an appropriate reflection of the UPOV Convention.

*Consultative Committee*

9. At its seventy-first session, held in Geneva on April 7, 2006, the Consultative Committee (CC) decided to grant observer status to the European Seed Association (ESA) in the CAJ. The CC discussed a document on the “Overview of existing activities of UPOV and possible future initiatives in relation to the enforcement of plant breeders’ rights” and made

certain recommendations to the Council concerning long-term financial issues of the Union. A report was made on the second running of the UPOV Distance Learning Course DL-205.

10. At its seventy-second session, held in Geneva on October 18, 2006, the CC decided to grant observer status to the Seed Association of the Americas (SAA) in the Council, the CAJ, the TC and the Technical Working Parties (TWPs) of UPOV. The CC considered the “Overview of existing activities of UPOV and possible future initiatives in relation to the enforcement of plant breeders’ rights” and agreed to continue its deliberations.

11. With regard to molecular techniques, the CC noted that the BMT is a group open to DUS experts, biochemical and molecular specialists and plant breeders, whose role includes to “provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of essential derivation and variety identification.” The CC noted that that provision enabled the Working Group on Biochemical and Molecular Techniques and DNA-Profiling in Particular (BMT) to provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of variety identification.

12. The CC made recommendations concerning the extension of the appointment of Mr. Rolf Jördens as Vice Secretary-General.

#### *Council*

13. At its twenty-third extraordinary session held in Geneva on April 7, 2006, the Council took a positive decision on the conformity of the Law of Viet Nam with the provisions of the 1991 Act of the UPOV Convention. The Council adopted decisions concerning the UPOV Working Capital Fund and adjustments of the number of contribution units applicable to a member of the Union.

14. At its fortieth ordinary session, held in Geneva on October 19, 2006, the Council took a positive decision on the conformity of the draft Law of the Dominican Republic with the provisions of the 1991 Act of the UPOV Convention. It also took a positive decision on the conformity of the Draft Law of the Republic of Guatemala with the provisions of the 1991 Act of the UPOV Convention, subject to the inclusion in Article 16(2) of the Draft Law of the term “within reasonable limits and subject to the safeguarding of the legitimate interests of the breeder” in respect of the farmer’s privilege.

15. The Council adopted the “Explanatory notes on variety denominations under the UPOV Convention” (document UPOV/INF/12/1).

16. The Council noted the work of the TC, the TWPs and the BMT, as provided in document C/40/10, and approved the programs of work set out in that document.

17. The Council elected Mr. Doug Waterhouse (Australia), as President of the Council and Mr. Keun-Jin Choi (Republic of Korea), as Vice-President of the Council. The Council expressed its appreciation to the outgoing President, Miss Enriqueta Molina Macías (Mexico), for the work carried out during her term.

18. The Council unanimously decided to extend the term of Mr. Rolf Jördens as Vice Secretary-General of UPOV until November 30, 2009. The Council also noted that the CC had agreed to have further discussions regarding the further one-year extension of the appointment and to make a final recommendation for a Council decision at the

seventy-fifth session of the CC, to be held in April 2008. The final decision would be taken at the twenty-fifth extraordinary session of the Council, to be held in April 2008, at the latest.

19. At the Council session, the President invited Mr. Clive Stannard, Senior Liaison Officer, Interim Secretariat of the International Treaty on Plant Genetic Resources for Food and Agriculture (IT/PGRFA), FAO, to make a presentation on the IT/PGRFA as part of the cooperation between UPOV and FAO.

20. In recognition of her contribution as President of the Council of UPOV, the Secretary-General awarded to Miss Enriqueta Molina Macías a UPOV Gold Medal. In recognition of her remarkable professional contribution to UPOV, the Secretary-General also awarded to Mrs. Pia Huber a UPOV Gold Medal.

Progress reports on the work of the Technical Working Parties, including the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular

21. The TC received oral reports, from the Chairpersons, on the work of the Technical Working Party for Agricultural Crops (TWA), the Technical Working Party on Automation and Computer Programs (TWC), the Technical Working Party for Fruit Crops (TWF), the Technical Working Party for Ornamental Plants and Forest Trees (TWO), the Technical Working Party for Vegetables (TWV) and the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) as below.

*Technical Working Party for Agricultural Crops (TWA)*

22. Mrs. Beate Rücker (Germany), Chairperson of the TWA, reported as follows:

23. The TWA held its thirty-fifth session in Beijing, China, from July 3 to 7, 2006. The Chairperson was Mrs. Beate Rücker (Germany). The report of the meeting is contained in document TWA/35/12.

24. The session was attended by 66 participants from 21 members of the Union and one observer organization. The preparatory workshop, held during the afternoon of Sunday, July 2, was attended by 23 participants.

25. On the first morning, the TWA received a welcome address by Mr. Yang Xiongjian, Deputy Director General of the Department of Science, Technology and Education of the Ministry of Agriculture, who reported on the development of Plant Variety Protection in China since 1999, when China had become a member of UPOV. The TWA received short reports on developments in plant variety protection by the participants.

26. The TWA considered developments on molecular techniques and discussed the importance of the *Ad Hoc* Crop Subgroups on Molecular Techniques (Crop Subgroups) which had held only very few meetings at that time. The TWA reaffirmed its support for the work of the Crop Subgroups. In addition, it noted that there could be some benefit in organizing sessions at the BMT according to vegetatively propagated, self-pollinated and cross-pollinated crops, in order to facilitate discussions on horizontal matters. The TWA agreed to propose to the TC to consider inviting the Crop Subgroups to develop proposals concerning the possible use of molecular tools for variety identification in relation to the enforcement of plant breeders' rights, technical verification and the consideration of essential derivation.

27. The TWA discussed a number of draft TGP documents according to the program agreed by the TC. It agreed with the program set out in document TC/42/5 Annex II with the exception that it proposed that document TGP/10 should be reconsidered by the Technical Working Parties in 2007. As a part of its discussion of TGP/9, the TWA considered a document on “SELECT: A method for identification of varieties to be excluded from the growing trial”. With the modifications it proposed for Section 2.6 of TGP/9 Draft 7, it was clarified that a characteristic-by-characteristic approach was applied for both the GAIA and SELECT methods. Subject to modifications proposed for Section 5 of TGP/8 “Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability” Draft 4, it was concluded that SELECT was covered by the GAIA methodology.

28. The TWA discussed developments concerning UPOV information databases and agreed to provide comments on the UPOV codes by the middle of September 2006. It noted the information on the revision of the UPOV recommendations on variety denominations and it noted that the UPOV GENIE database would be amended accordingly.

29. The TWA discussed the project to consider the publications of variety descriptions. It concluded that published variety descriptions could have some potential benefit for the management of reference collections but that there was a risk that the incorrect use of data could lead to incorrect decisions. The TWA recognized that the work would have a significant cost. There were no proposals for work within the TWA crops.

30. The TWA noted the information on COY and off-type standards and agreed to suggest that the TWC investigate the variation within, and between, varieties for selected crops, in order to determine whether harmonized standards would be appropriate.

31. The TWA agreed to submit to the TC the draft Test Guidelines for Common Millet and Grain Amaranth, both of which were new Test Guidelines. As agreed during the session, the Test Guidelines for Grain Amaranth were modified after the meeting by correspondence. The TWA planned to continue discussions on 14 Test Guidelines in 2007, three of which were revisions and 11 of which were new. Eight of those Test Guidelines were expected to be at the final stage in 2007.

32. On the afternoon of July 5, 2006, the TWA visited the DUS Testing Center of the Ministry of Agriculture, where it received a report on DUS testing for plant variety protection in China. The TWA also visited the Storage Center of Propagating Material in the Chinese Academy of Agricultural Science.

33. At the invitation of the experts from Hungary, the TWA agreed to hold its thirty-sixth session in Budapest, Hungary, from May 28 to June 1, 2007, with a preparatory workshop on May 27. The TWA proposed to discuss the following items at its next session: Short reports on developments in plant variety protection from members and observers; Reports on developments within UPOV; Developments on Molecular Techniques; TGP documents; UPOV Information Databases; Variety denominations; Project to consider the publication of variety descriptions; Project for exchanging seed of selected varieties between interested countries; Development of regional sets of example varieties for the Test Guidelines for Rice; Discussion on draft Test Guidelines; Recommendations on draft Test Guidelines; Date and place of the next session and Future program.

*Technical Working Party on Automation and Computer Programs (TWC)*

34. Mrs. Sally Watson (United Kingdom), Chairperson of the TWC, reported as follows:
35. The TWC held its twenty-fourth session in Nairobi, Kenya, from June 19 to 22, 2006. The report of the meeting is contained in document TWC/24/17. The session was attended by 44 participants from 15 members of the Union and one observer State. The TWC was welcomed by Dr. John Kedera, Managing Director of the Kenya Plant Health Inspectorate Service (KEPHIS). The session was chaired by Mrs. Sally Watson (United Kingdom). A preparatory workshop was held on the afternoon of June 18 and was attended by 11 participants.
36. Dr. Evans Sikinyi made a presentation on plant breeder's rights in Kenya.
37. The TWC received a short report from the Office of the Union (Office) on new developments in the Council, the CAJ, the TC, and the other TWPs. Discussions followed an update on the consideration of molecular techniques in UPOV. It was recognized that the TWC might have a part to play if molecular techniques were to be used for variety identification in the enforcement of plant breeder's rights, technical verification and the consideration of essential derivation. The draft Guidelines for Molecular Marker Selection and Database Construction (BMT guidelines) were considered and, in particular, the section on database construction. The TWC noted that collaborative projects between Denmark, France, Germany and the United Kingdom on oilseed rape, and between Germany and Spain on maize, would provide an opportunity to assess the harmonization of the methodology and the compatibility of the databases.
38. Discussion of TGP documents formed an important part of the meeting. Those included: TGP4, TGP/9, TGP/10, TGP/8, and TGP/14: Section 3 "Statistical Terms".
39. The TWC had no major comments on TGP/4 or TGP/10. However, there were lengthy discussions on TGP/9 with respect to the sections on phenotypic distance methods. On the use of the method to select varieties for inclusion in the growing trial, the TWC agreed that the description was too specific to GAIA and not general enough for other methods, such as Mahalanobis distance. The TWC recommended that combinations of characteristics, such as those produced by phenotypic distance methods, should not be included as an approach for determining distinctness. It reasoned that it had little experience of such an approach, though it welcomed evidence of its efficacy or otherwise. The TWC also welcomed the opportunity to investigate the use of combinations of characteristics, both for distinctness and for uniformity testing.
40. The TWC discussed at length TGP/8, for which it had responsibility in drafting.
41. In addition to its work on TGP documents, the TWC considered other important contributions concerning developments in statistical methods used in DUS testing. The TWC discussed a number of approaches to the question of whether the number of reference variety plants on which characteristics were recorded could be reduced. It was shown that the number of measurements on reference varieties could be reduced markedly in many characteristics without markedly reducing the precision of the distinctness tests. That work was to be pursued and documents on the subject would be circulated to other TWPs. Another study looked into a possible alternative approach to COYU for testing uniformity when characteristics have a positive linear relationship between the means and the standard

deviations. That approach would be studied further. The TWC was presented with a proposed Bayesian approach for reducing the size of DUS trials by producing a threshold on a characteristic-by-characteristic basis for exclusion of reference varieties from the trial. That would be done at the start of the second growing trial using information from the first growing trial. There was much interest in the method because it was felt that it could also be used to provide interim results of known reliability to the breeder after the first growing cycle. The results of a study comparing methods for analyzing segregation ratios were presented to the TWC. The method using a generalized linear mixed model was preferred, although it had some difficulties (e.g. with zero counts). There was also a study of the impact of reducing the numbers of plants observed in a Chi-squared test of segregation ratios.

42. The TWC discussed the SELECT method used to identify varieties for exclusion from the growing trial. It was agreed that the method had much in common with GAIA, and that both could be viewed as “decision tools” for collating information and making cautious decisions.

43. The TWC was presented with the results of studies on the use of data from multiple locations in DUS testing, and image analysis of ornamentals.

44. The TWC discussed the development of a questionnaire on population standards used to assess uniformity by the method of off-types. The questionnaire was to be developed by correspondence by the TWC, issued by the Office, with the results being discussed by the TWP in 2007.

45. The TWC saw a demonstration of an Access database of TWC papers and papers of interest to the TWC. The meeting suggested that the TC might consider whether the database should also be demonstrated to other TWPs.

46. At the invitation of Romania, the TWC agreed to hold its twenty-fifth session in Sibiu, Romania, from September 3 to 6, 2007, with a preparatory workshop on September 2. During that session, the TWC planned to discuss the items mentioned above plus an examination of statistical procedures for checking uniformity in variety trials, an adjustment to COY for grouping characteristics, image analysis in parsnip and a review of test design: checking levels of quality.

#### *Technical Working Party for Fruit Crops (TWF)*

47. Mr. Alejandro F. Barrientos-Priego (Mexico), Chairman of the TWF, reported as follows:

48. The TWF held its thirty-seventh session in Salvador, Bahia State, Brazil, from August 21 to 25, 2006, with a preparatory workshop on the afternoon of August 20. The report on the conclusions of the meeting is contained in document TWF/37/14, with the detailed report to be provided as document TWF/37/15. The session was opened by Mr. Alejandro F. Barrientos-Priego (Mexico), Chairman of the TWF, and the TWF was welcomed by Mrs. Maria Delia Gómez, Representative of the Ministry of Agriculture, Livestock and Food Supply.

49. The session was attended by 42 participants from 17 members of the Union and one observer organization. The preparatory workshop was attended by 12 participants.

50. The TWF received a presentation on DUS Testing in Brazil from Mrs. Vera Lucia Santos do Machado, Head, División de Normalización y Registro, Servicio Nacional de Protección de Cultivares (SNPC), and received oral reports from participants on developments in plant variety protection and from the Office on the latest developments within UPOV.

51. The TWF received an oral presentation on developments concerning the *Ad Hoc* Crop Subgroups on Molecular Techniques (Crop Subgroups) as part of document TWF/37/2. It noted the establishment of a Crop Subgroup for Vegetatively Propagated Crops which, in conjunction with all interested parties and breeders in particular, could formulate proposals for consideration by the TC and the BMT Review Group.

52. The TWF discussed a number of draft TGP documents. The TWF discussed document TGP/4/1 Draft 4 “Constitution and [Management] / [Maintenance] of Variety Collections” and agreed to propose that, before taking the decision of including candidate varieties in a reference collection, it was necessary to complete the examination first. In addition, the TWF considered that the term “Management” was more appropriate for the title of Section 3 “Management of Variety Collections” because it reflected more accurately the content of the section. It also discussed and recommended possible amendments, mainly in the wording, to other TGP documents. For TGP/9/1 Draft 7 “Examining Distinctness”, it was considered to be important to clarify that, for the DUS examination, the grouping characteristics should be the basis for grouping. For TGP/10/1 Draft 4 “Examining Uniformity”, it was agreed to propose that section 4 “Uniformity Assessment on the Basis of Off-Types” should be restructured into only two sections, on the basis of those plants which should not be considered as off-types and those plants which should be considered as off-types. With regard to TGP/8/1 Draft 1 “Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability”, the TWF requested that the drafters take into account the comments which the TWF had made at its thirty-sixth session. TGP/12 Section 1 Draft 3 “Special Characteristics: Section 1: Development of Characteristics based on a Response to an External Factor” was discussed. For TGP/13/1 Draft 6 “Guidance for New Types and Species”, the TWF proposed that, even in the case of a description of a candidate variety of a new species, it was necessary to follow the UPOV format as far as possible. In respect of TGP/14.2.1(&2) Draft 5 “Botanical Terms: Plant Shapes” including “Botanical Terms: Hair Types” the TWF was more in favor of the use of “ratio length/width” because it was the normal practice; however, it considered that that should not be a fixed rule, and the use of “ratio width/length” should be accepted in particular situations.

53. The TWF did not have time to discuss document TGP/14.2.3.1 Draft 2 “Botanical Terms: Color: Color Characteristics” and TGP/14.2.3.2 Draft 4 “Botanical Terms: Color: Color Groups”.

54. The TWF considered documents TWF/37/4 “UPOV Information Databases”, TWF/37/5 “Variety Denominations”, TWF/37/6 “Project to Consider the Publication of Variety Descriptions”, TWF/37/6 “Criteria for Determining Off-Type Plants” and TWF/37/7 “Drafters’ Kit for Test Guidelines”, where it agreed on the usefulness of the TG template and of TGP/7, whilst it considered that its structure might be regarded as rather complicated, in particular for those experts using it for the first time. The TWF also considered documents TWF/37/10 “Information on Probability Levels used in COY and Population Standards used in the Assessment of Uniformity by Off-types” and TWF/37/8 “Additional Characteristics”.



55. The TWF agreed to submit to the TC the draft revised Test Guidelines for Apricot, Blueberry and Blackcurrant. In the case of the Test Guidelines for Blackcurrant, following the TWF session, the Leading Expert identified certain characteristics for which further discussion was required. In conjunction with the Chairman of the TWF, it was agreed that the revised Test Guidelines for Blackcurrant should be discussed again by the TWF at its thirty-eighth session, in 2007. The new draft Test Guidelines for Hawthorn were agreed for submission to the TC; however, at its thirty-ninth session, held in Fortaleza, Ceará State, Brazil, from August 28 to September 1, 2006, the TWO recommended that those Test Guidelines should be reconsidered in 2007 in order to allow the relevant experts to make more detailed proposals on characteristics for ornamental varieties.

56. At its thirty-ninth session the TWF planned to continue discussions on a total of 19 Test Guidelines: 5 of which were revisions and 14 were new Test Guidelines, with 7 of the Test Guidelines at the “final” draft stage. It also decided to consider at that session whether to start developing draft Test Guidelines for Cacao and Pitaya.

57. At the invitation of the expert from the Republic of Korea, the TWF agreed to hold its thirty-eighth session in the Republic of Korea, from July 9 to 13, 2007, with a preparatory workshop on July 8. During its thirty-eighth session, the TWF planned to discuss or re-discuss the following items: Short reports on developments in plant variety protection from members and observers, as well as within UPOV; Developments on molecular techniques; TGP documents; UPOV information databases; Variety denominations; Project to consider the publication of variety descriptions; and Discussions and Recommendations on draft Test Guidelines.

*Technical Working Party for Ornamental Plants and Forest Trees (TWO)*

58. Mrs. Sandy Marshall (Canada), Chairperson of the TWO reported as follows:

59. The TWO held its thirty-ninth session in Fortaleza, Ceará State, Brazil, from August 28 to September 1, 2006, with Mrs. Sandy Marshall (Canada) as the Chairperson. The TWO was welcomed by Mr. Helinton José Rocha, Director, Intellectual Property Department and Agricultural Technology, Ministry of Agriculture, Livestock and Supply of the Federative Republic of Brazil. The report on the conclusions of the meeting is contained in document TWO/39/11, with the detailed report to be provided as document TWO/39/12.

60. The meeting was attended by 45 participants from 18 members of the Union, and one observer organization. The TWO noted that the preparatory workshop, held during the afternoon of August 27, prior to the TWO meeting, was attended by 16 participants. The TWO also heard that, on August 26 and the morning of August 27, the Brazil National Plant Variety Protection Service hosted a workshop, in cooperation with UPOV, on the use of molecular techniques in plant variety protection for vegetatively propagated perennial crops. This workshop was attended by a number of TWO participants as well as many Brazilian experts.

61. The TWO received a presentation from Mrs. Daniela de Moraes Aviani on plant breeders' rights in Brazil. The TWO also received short oral reports on developments in variety protection from participants and from the Office on the latest developments within UPOV.

62. The TWO considered document TWO/39/2, concerning the use of molecular techniques in DUS Testing and received an oral report on developments concerning *Ad hoc* crop subgroups for molecular techniques (Crop Subgroups). It noted the extension of the Crop Subgroup for Wheat to cover both wheat and barley and the establishment of a Crop Subgroup for Vegetatively Propagated Crops, which would incorporate the Crop Subgroup for Rose.

63. The TWO discussed document TGP/4/1 Draft 7, “Constitution and [Management] / [Maintenance] of Variety Collections”, and made several proposals, including the proposal to keep the word “Management” in the title. The TWO also discussed document TGP/9/1 Draft 7, “Examining Distinctness”, and made a number of proposals for clarification of wording which took into account the particular features of DUS testing of ornamental varieties.

64. A discussion of document TGP/10/1 Draft 4 focused on Section 4, which concerned uniformity assessment on the basis of off-type plants. The TWO proposals included the restructuring of some sections of the document, particularly those regarding atypical plants which should not be considered to be off-types. The TWO also recommended that clarification should be provided in several other sections of the document. Experts from the Netherlands made a presentation to the TWO on a particular situation for the assessment of uniformity for varieties of *Phalaenopsis* within which there were variations in the color and the pattern of spots on the flowers. Concerns were raised on the scope of protection of the first variety for a given type within a species, because a very broad description might limit the possibility for future applications for the same species.

65. A number of other draft TGP documents were also discussed. The TWO had particular interest in TGP/8 Draft 4, TGP/12 Section 1 Draft 3, TGP/13 Draft 6, TGP/14.2.1 Draft 5 – Plant Shapes and TGP/14.2.3.1 Draft 2 – Color Characteristics.

66. The TWO discussed TWO/39/5 “Variety Denominations”. It considered that the recommendations for variety denominations should include a possibility for regular updating of the Annex containing the classes, taking into account changes in botanical classification and new species which were constantly arising in the ornamental plant sector.

67. Document TWO/39/6 provided the basis for discussion on the project to consider the publication of variety descriptions. The TWO concluded that the development of this project would involve a large effort for ornamental plants because many varieties were distributed all over the world. Furthermore, sufficient information was available on the internet and in commercial catalogues for identifying relevant varieties to be included in DUS trials; therefore, the TWO concluded that, for ornamental plants, there was no particular justification for the development of this project.

68. The TWO considered document TWO/39/7 “Drafters’ Kit for Test Guidelines” and concluded that it was not necessary to develop customized electronic templates for ornamental species. However, it considered that it would be useful to develop a more user-friendly kit with a more streamlined template to facilitate use by all crop experts.

69. The TWO agreed to submit seven Test Guidelines to the TC. Of those, three were revisions of the existing Test Guidelines for *Elatior Begonia*, *Pot Azalea*, and *Clematis*; and four were new Test Guidelines for *Angelonia*, *Diascia*, *Sutera/Jamesbrittenia* and *Tagetes*.

At its fortieth session in 2007, the TWO planned to discuss 28 Test Guidelines, consisting of eight revisions and 20 new Test Guidelines.

70. At the invitation of China, the TWO agreed to hold its fortieth session in Kunming, China, from July 2 to 6, 2007, with a preparatory workshop to be held on July 1. During its fortieth session, the TWO planned to discuss or re-discuss the following items: short reports on developments in plant variety protection from members and observers, as well as within UPOV; molecular techniques; the project to consider the publication of variety descriptions; UPOV information databases; TGP documents and discussion of, and recommendations for, draft Test Guidelines.

*Technical Working Party for Vegetables (TWV)*

71. Mr. Niall Green (United Kingdom), Chairman of the TWV reported as follows:

72. The Technical Working Party for Vegetables (TWV) held its fortieth session in Guanajuato, Guanajuato State, Mexico from June 12 to 16, 2006, with a preparatory workshop held on June 11. The Chairperson was Mr. Niall Green (United Kingdom). The report of the meeting is available in document TWV/40/11.

73. The TWV session was attended by 58 participants from 16 members of the Union and one observer organization. The Preparatory Workshop, which was attended by 48 participants, was extended to a whole day and was used to provide more information concerning characteristics and the organization of DUS Testing.

74. There were oral reports from the participants on developments in plant variety protection in their countries. In particular, the TWV received a presentation on Plant Breeders' Rights testing in Mexico which included information on seed inspection and certification, and plant genetic resources.

75. During the session, drafts of documents TGP/4 "Constitution and [Management] / [Maintenance] of Variety Collections", TGP/9 "Examining Distinctness", TGP/10 "Examining Uniformity", TGP/11/1 "Examining Stability", TGP/12: Section 1 "Special Characteristics: Characteristics expressed in response to external factors", TGP/13 "Guidance for New Types and Species" and TGP/14: Section 2 "Plant Shapes", were discussed.

76. As no meetings of Crop Subgroups concerning vegetable crops had taken place, experts from France, The Netherlands, Spain, the European Community and the International Seed Federation agreed to prepare documents for discussion at the forty-first session on the current use of molecular markers in relation to essentially derived varieties and for testing disease resistance.

77. Further discussions were held on the Project to Consider the Publication of Variety Descriptions. The TWV proposed to investigate the value, both globally and regionally, of grouping, asterisked and other characteristics in two crops. The experts from France and the European Community agreed to coordinate work on Pea and Tomato respectively. The TWV also agreed to discuss, at its forty-first session, the possibilities of ring tests prior to the revision of Test Guidelines.

78. The TWV agreed to submit six revised Test Guidelines (Carrot, Cauliflower, Cucumber and Gherkin, Onion and Shallot, Pumpkin and Spinach) and four new Test Guidelines (Bitter

Gourd, *Cucurbita moschata* Duch., Husk Tomato and St. John's Wort) for consideration by the Technical Committee. The draft guidelines for Cauliflower and Husk Tomato were modified by correspondence after the meeting.

79. The TWV agreed to discuss a total of 18 Test Guidelines at its forty-first session, eight of which were final drafts. Of the others, two were revisions and seven were new drafts: *Agaricus*, Cardon, Chayote, Coriander, Cowpea, Taro and Yam. Joint TWA/TWV subgroup meetings on Pea and on Maize would be held during the thirty-sixth session of the Technical Working Party for Agricultural Crops, to be held in Budapest, Hungary, from May 28 to June 1, 2007.

80. At the invitation of the expert from Kenya, the TWV agreed to hold its forty-first session in Nairobi, Kenya from June 11 to 15, 2007, with a preparatory workshop on June 10.

81. During the forty-first session, the TWV planned to discuss or re-discuss: Short reports on developments in plant variety protection, Molecular Techniques, TGP Documents, UPOV Information Databases, Variety denominations, Project to consider the Publication of Variety Descriptions, draft Test Guidelines, Date and place of next session, Future program and the Report on the conclusions of the session.

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

82. Mr. Henk Bonthuis (Netherlands), Chairperson of the BMT reported as follows:

83. The BMT held its tenth session in Seoul, Republic of Korea, from November 21 to 23, 2006. The Preparatory Workshop, held on November 20, was extended to a whole day in conjunction with a Technical Workshop with presentations by experts from UPOV members on experiences and outlooks on the use of molecular techniques in plant variety protection. The Chairperson for the BMT session was Mr. Henk Bonthuis (Netherlands). The report of the meeting is contained in document BMT/10/19.

84. On the day following the BMT, a "Symposium on the Application of Molecular Techniques for Plant Breeding and in Plant Variety Protection" was organized jointly by the Korean Society for Seed Science and Industry (KOSID) and the National Seed Management Office (NSMO), Republic of Korea, in cooperation with UPOV.

85. The session of the BMT was attended by a total of 51 participants from 15 members of the Union and 5 observer organizations. The Preparatory Workshop was attended by 28 participants.

86. The BMT session was hosted by the NSMO of the Ministry of Agriculture and Forestry. Dr Keun-Jin Choi (NSMO) provided an overview of the plant variety protection situation in the Republic of Korea.

87. The BMT heard that there had been no Crop Subgroup meetings. However it was noted that several on-going projects (e.g. in oilseed rape, potato and rose) would be presented under the agenda item "Report of work on molecular techniques on a crop-by-crop basis". Matters concerning the Crop Subgroups of Rose and Potato were also to be considered by the Crop Subgroup for Vegetatively Propagated Crops which was to meet in conjunction with the tenth session of the BMT.

88. The BMT received short reports on new developments in biochemical and molecular techniques. An expert from Spain reported on work which was taking place on the sequencing of the genome of grapevine which might be useful for approaches under "Option 1" or for studying essential derivation. A representative of the European Community, Community Plant Variety Office (CPVO) reported that CPVO had held seminars on enforcement in Brussels and in Warsaw and that a further seminar was planned to be held in Madrid in February 2007. The representative of the International Community of Breeders of Asexually Reproduced Ornamental and Fruit-Tree Varieties (CIOPORA) reported that CIOPORA was working on a position paper on essentially derived varieties to be adopted at its board meeting in April 2007. The representative of the International Seed Federation (ISF) reported that ISF had reaffirmed its position with regard to the possible use of molecular techniques in DUS testing and in variety identification. A position paper had been posted on the ISF website.

89. The BMT received reports on molecular techniques in vegetatively propagated crops, such as potato, rose and carnation. An expert from Spain presented a microsatellite-based system for the identification and legal protection of grapevine varieties.

90. The BMT received reports on "Option 1" approaches in self-pollinated crops such as barley and pepper. Experts from France provided interesting perspectives for "Option 2" approaches in maize, where molecular and morphological distances could be combined for the selection of reference varieties. More results on "Option 2" approaches from on-going projects in maize and oilseed rape would be presented at the eleventh session of the BMT.

91. The BMT agreed that the BMT Guidelines, on the basis of the recommendations discussed at the tenth session of the BMT, could be proposed for agreement by the TC.

92. The BMT agreed to suggest oilseed rape, potato and rose as suitable crops for a practical exercise in the development of an exchangeable database. It noted that the appropriate terms of reference needed to be set by the TC.

93. The BMT heard that the Crop Subgroup for Vegetatively Propagated Crops, at its meeting on November 22, had agreed to propose to the BMT and to the TC that it organize specific sessions at the BMT for vegetatively propagated, self-pollinated and cross-pollinated crops, in order to facilitate discussions on horizontal matters and, subject to such an approach, had agreed to propose to discontinue the Crop Subgroup for Vegetatively Propagated Crops. The BMT agreed with that approach.

94. The BMT agreed that the Crop Subgroups should, in particular, provide a forum for focused discussion on proposals with stakeholders. In that respect, it noted that it might not be most appropriate to hold the meetings of the Crop Subgroups in conjunction with the sessions of the TWPs. On that basis, it agreed that the meetings of the following Crop Subgroups might be appropriate:

Crop Subgroup for Rose: to meet early 2007.  
(the meeting had since been set for April 18, in Angers)

Crop Subgroup for Potato: to meet in spring 2007.  
(the meeting had since been set for April 17, in Quimper)

Crop Subgroup for Maize: to meet around the end of 2007 or early 2008.

95. In response to the invitation received from the Government of Spain, the BMT agreed to hold its eleventh session in Spain in May 2008.

96. During the eleventh session, the BMT planned to discuss: Reports on developments in UPOV concerning biochemical and molecular techniques; Reports on the work of the Crop Subgroups; Short presentations on new developments in biochemical and molecular techniques by DUS experts, biochemical and molecular specialists, plant breeders and relevant international organizations; Reports of work on molecular techniques on a crop-by-crop basis, organized in sessions for (a) vegetatively propagated crops, (b) self-pollinated crops, (c) cross-pollinated crops; BMT Guidelines; International guidelines on molecular methodologies; Practical exercise in the development of an exchangeable database of molecular data of plant varieties; Statistical methods for data produced by biochemical and molecular techniques; The use of molecular techniques in examining essential derivation; The use of molecular techniques in variety identification; Recommendations on the establishment of new crop specific subgroups.

97. The BMT agreed that, in order to encourage the presentation of information in relation to the use of molecular techniques in examining essential derivation and in variety identification, it would be appropriate to dedicate a specific day to those items at the eleventh session of the BMT. In particular, breeders and other experts would be offered the possibility to attend for that specific day.

98. The BMT made technical visits to the National Agriculture Science Museum of the Rural Development Institute, the Rice Breeding Center of the National Institute of Crop Science and the genebank facilities of the National Institute of Agricultural Biotechnology, all in Suwon.

#### Matters arising from the Technical Working Parties

\*99. The TC considered document TC/43/3.

#### *Drafting Test Guidelines*

\*100. The TC noted the plans for the Office of the Union (the Office) to improve the user-friendliness of the electronic template for drafters of Test Guidelines, as set out in document TC/43/3, paragraph 11. The TC also agreed with the proposal of the Office to develop two versions of the electronic template: Version 1, with no Additional Standard Wording (ASW); and Version 2, with all ASW included (see paragraph 12) and with the proposal of the Office to develop a practical guide for drafters of Test Guidelines.

#### *Development of COY*

\*101. The TC agreed to the TWC proposal that new versions of documents TWC/24/10 “Influence of number of plants per plot on the assessment of uniformity and distinctness for quantitative characteristics in rape seed and yellow mustard” and document TWC/24/12 “The possibility of reducing the number of assessed plants for quantitative characteristics for reference varieties”, be presented to all Technical Working Parties (TWPs) at their sessions in 2007.

*Exchangeable Software and TWC Documents*

\*102. The TC noted the TWC proposal for a prototype of a database to search for TWC documents to be presented to other TWPs for comments. However, the TC agreed that the TWC should be invited to note the concerns expressed at the TC, in particular the need for care with regard to the use of TWP session documents, which it was noted did not represent an agreed UPOV position and did not contain comments made on those documents by the relevant UPOV bodies. The Technical Director noted that the introduction of a new database would imply additional resources from the Office and he wondered if there would be concrete benefits to justify the diversion of resources from other UPOV activities.

TGP documents

\*103. The TC discussed the development of the TGP documents on the basis of document TC/43/5.

(a) *TGP documents to which the Technical Committee has given highest priority*

*TGP/4: Constitution and Management of Variety Collections*

\*104. The TC agreed the following amendments to document TGP/4/1 Draft 9:

<i>Section</i>	<i>Comment</i>
General	“[cross ref.]” and endnotes to be deleted
Title	title to read “TGP/4 Constitution and Maintenance of Variety Collections”
2.1.1.2	final sentence to read: “Consultation of plant experts may enable the completeness of the information to be improved.”
2.2.1.5	to insert space between “varieties of common knowledge in the” and “variety”
2.2.2.2	to insert space between “the” and “territory”
3.1.2.1	final sentence to read: “For the purposes of this document, maintenance of living plant material refers to the way the living plant material is maintained in storage (e.g. seed) or under cultivation (e.g. vegetatively propagated varieties).”
3.1.2.5.1	to amend “to maintain its usefulness” to “to ensure its usefulness”
3.2.2.2	to replace “variety of common knowledge” with “varieties of common knowledge”
3.2.2.2	to delete “, according to the agreement between them”

\*105. The TC agreed that document TGP/4/1 Draft 9, as amended above, should be the basis for adoption of document TGP/4/1 by the Council, as set out in document TC/43/5, paragraph 8.

*TGP/9: Examining Distinctness*

\*106. The TC agreed the following amendments to document TGP/9/1 Draft 9:

<i>Section</i>	<i>Comment</i>
General	“ <i>[cross ref.]</i> ” and endnotes to be deleted. To note that the Table of Contents will be updated to reflect the changes in the document.
2.3.2.1	to delete “, for which the states of expression are particularly influenced by the environment”
2.3.3	to read:  “2.3.3 <u>Grouping on the basis of other characteristics, or in the absence of UPOV Test Guidelines</u>  The criteria set out in Section 2.3.1.2 <i>[cross ref.]</i> can be used to identify other characteristics which may be useful for grouping.”
2.3.4.2, 2.3.4.3	to keep “the states of expressions of” (to remove the square brackets around the text)
2.4.1	to delete “differences” after “known to be clear and consistent” in the penultimate sentence
2.5.2	to read “Document TGP/7 indicates that, where useful for the DUS examination, the UPOV Test Guidelines may require that a representative color photograph of the variety accompanies the information provided in the Technical Questionnaire. In such cases, it is recommended that guidance be provided by the authority to enhance the usefulness of the photograph (e.g. to include a metric scale and a color scale in the picture, to define what parts of the plant should be included, to specify the light conditions and the background color, etc). However, the use of photographs for selecting varieties for the growing trial should take into account that, despite such guidance and the best endeavors of the breeder, photographs may not always accurately reflect the characteristics of the variety.”
4.3.2.1	to replace “for most qualitative and pseudo-qualitative characteristics in cross-pollinated varieties” with “are often fulfilled for qualitative and pseudo-qualitative characteristics in cross-pollinated varieties”
4.3.2.1	last sentence to read “In the case of some quantitative characteristics in self-pollinated and vegetatively propagated varieties, it may be appropriate to obtain records for single, individual plants or parts of plants (S) (see Section 4.3.3).”
4.3.2.3	to read “The record (G) may result from an overall observation of a plot (e.g. leaf color, time of beginning of flowering) or it may result from an overall observation of parts of plants taken from a group of plants (e.g. color of lower side of leaf, hairiness of sheath of lowest leaf). [...]”
4.3.3	to change “may be used to calculate a mean value” to “may be used solely to calculate a mean value”



<i>Section</i>	<i>Comment</i>
4.3.3.1	title: to change “to calculate variety mean value” to “solely to calculate variety mean value”
4.3.3.2	Example (MS): final sentence to read: “The value of each plant is used for calculation of the mean and to estimate random variation in order to assess distinctness.”
4.3.3.2	Example (VS): final sentence to read: “The value of each plant is used for calculation of the mean and to estimate random variation in order to assess distinctness.”
5.2.1.2	first sentence to read: “The choice of approach or combination of approaches for the assessment of distinctness, which is influenced by the features of propagation of the variety and the type of expression of the characteristic, determines the method of observation and type of record (VG, MG, VS or MS).”
5.2.3.2.2.3	to read: “The following examples illustrate why deciding on the difference in the number of Notes required between varieties to establish distinctness needs particular care: [...]”
<sup>gg</sup> 5.4	“5.4 Techniques for assessing distinctness based on the growing trial” to be deleted in addition to the text already shown in strikethrough

\*107. The TC agreed that document TGP/9/1 Draft 9, as amended above, should be the basis for adoption of document TGP/9/1 by the Council, as set out in document TC/43/5, paragraph 11.

*TGP/10: Examining Uniformity*

\*108. The TC agreed the following amendments to document TGP/10/1 Draft 6:

<i>Section</i>	<i>Comment</i>
General	“range of variation” to be replaced by “level of variation”, with a footnote to be added explaining why a different term has been used compared to the term in the General Introduction (see also comments to Sections 2.3.2 and 2.3.3).
1.2	it was agreed that the next draft of TGP/10 would contain an indication to continue discussion on the final sentence (shown in strikethrough) or an alternative wording for that sentence
2.3.1(c)	final sentence to read “In relation to self-pollinated and vegetatively propagated varieties a higher genetic variation is accepted;”
2.3.2	to read “However, where the level of variation within a variety is greater...”
2.3.2, 2.3.3	to replace “overall range” with “level”

<i>Section</i>	<i>Comment</i>
4.3.2.4	fifth sentence to read “In that respect, atypical expression in a relevant characteristic caused by genetic factors, such as mutation, on any part of the plant are very likely to lead to the whole plant being considered an off-type.”
4.5.1.1	last sentence to read “The probability of correctly accepting a variety with the population standard of off-types as uniform is called the “acceptance probability”.”
4.5.1.4, 4.5.1.5	to consider the following alternative wording on the basis that it indicates that the selection of the population standard and acceptance probability is the primary consideration for uniformity: “4.5.1.4 The UPOV Test Guidelines recommend for [a] particular type[s] of variety a general, i.e. ‘fixed’, population standard and acceptance probability and provide the maximum acceptable number of off-types for a given sample size. The population standard and acceptance probability, together with the sample size and the maximum number of off-types, are selected on the basis of experience, in particular with reference to other UPOV Test Guidelines for comparable types of variety.”  “4.5.1.5 In the absence of UPOV Test Guidelines, an appropriate population standard and acceptance probability, together with the maximum acceptable number of off-types and sample size, are selected on the basis of experience, in particular with reference to UPOV Test Guidelines for comparable types of variety.”
5.1	to replace “wide range” with “high level”
5.2.1	to replace “comparable” with another term such as “comparator”, “established” etc.
5.2.2	last sentence to read “This COYU procedure calculates a tolerance limit on the basis of comparable varieties and uniformity is assessed using a relative tolerance limit based on varieties within the same trial with comparable expression of characteristics.”
6	title of section to be amended to reflect better the contents of the section

\*109. The TC agreed that a new draft of TGP/10 should be considered by the TWPs at their sessions in 2007.

(b) *Revision of TGP documents*

*TGP/5: Experience and Cooperation in DUS Testing*

\*110. The TC agreed the following amendments to Sections 1 to 7 of document TGP/5:

<i>Reference</i>	<i>Comment</i>
General	to review the use of the term “official register” to reflect the fact that some authorities consider that the term “official” also covers registries for plant breeders’ rights. To consider, in particular, the option to indicate the term “other” before “official”, the option for authorities to complete the relevant part of the forms with the appropriate term for their territory and to take into account that the terms “Official National List” and “Official National Catalogue” are used by the Organisation for Economic Co-operation and Development (OECD).

*Section 1/2 Draft 1: Model Administrative Agreement for International Cooperation in the Testing of Varieties*

Preamble	to add an indication that the use of the Model Administrative Agreement was not a prerequisite for international cooperation and that, for example, it was possible to purchase DUS reports without such an agreement.
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*Section 2/2 Draft 1: UPOV Model Form for the Application for Plant Breeders’ Rights*

8.	to indicate that the Authority should delete the appropriate term and to check the position of the tick boxes
9 (a)	to add “in” after “completed”

*Section 4/2 Draft 1: UPOV Model Form for the Designation of the Sample of the Variety*

2.	to clarify that the form is not intended for official registration (national list) purposes and to review the use of the term “official registration” (see general comment concerning TGP/5 above)
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*Section 5/2 Draft 1*

*UPOV Request for Examination Results*

new line (after 7.)	to indicate the UPOV code
9.	to include an option for applicant
new line	to indicate where the invoice should be sent

<i>UPOV Answer to the Request for Examination Results</i>	
5 (b)	to provide an option for the invoice to be sent to a relevant party other than the applicant

<i>Section 6/2 Draft 1</i>	
<i>UPOV Report on Technical Examination</i>	
new line (after 9.)	to indicate the UPOV code
<i>UPOV Variety Description</i>	
new line (after 6.)	to indicate the UPOV code
17.	to include an option for photographs to be provided
new line	to consider whether to add a section specifying the varieties included in the DUS test

<i>Section 7/2 Draft 1: UPOV Interim Report on Technical Examination</i>	
General	to include the possibility to attach an annex to report on problems

\* 111. The TC thanked the International Seed Federation (ISF) for its presentation on a proposal for the development of an electronic application form and technical questionnaire and noted that a copy of the presentation would be posted on the ISF website ([www.worldseed.org](http://www.worldseed.org)). The TC noted that any developments should take into account the initiatives by a number of the members of the Union to develop on-line application facilities. The Vice Secretary-General welcomed the initiative of ISF and looked forward to investigating ways in which this matter could be taken forward in the most appropriate and beneficial way, within UPOV's resources. In that respect, the Vice Secretary-General informed the TC that, at its fifty-fifth session, to be held in Geneva on March 29, 2007, the CAJ would be considering the possibility to invite ISF to make a similar presentation to the CAJ in October 2007.

\* 112. With regard to TGP/5 Section 10/1 "Notification of Additional Characteristics", the TC noted that no additional characteristics had been notified to the Office [of the Union], but considered that the system was very useful and agreed to retain Section 10 in document TGP/5.

\* 113. The TC noted the invitation in document TC/43/5, paragraph 31, for members of the Union to provide examples of contracts / agreements between authorities and breeders for inclusion in a new section of TGP/5. The Delegation of the European Community indicated that it had agreements on the transfer of material between authorities, which it would be willing to provide, if those agreements were considered to be relevant. A representative of ISF offered to provide examples of contracts/agreements between breeders and authorities if that information could be included in TGP/5. The Office observed that such examples should have the consent of the relevant authorities. ISF acknowledged that requirement and noted that the consent of the breeders would also be required in the case of an example agreement concerning a particular breeder.

*TGP/7: Development of Test Guidelines*

\* 114. The TC noted the proposals previously made with regard to the revision of document TGP/7/1, as set out in Annex I to document TC/43/5.

\* 115. The Chairperson recalled that, during its discussions on the drafts of document TGP/7, the TC had agreed that a new section should be developed to provide guidance on the development of individual authority Test Guidelines from UPOV Test Guidelines.

\* 116. With regard to Technical Questionnaire characteristics which did not have an asterisk in the Table of Characteristics, as set out in document TC/43/5, paragraph 35, the TC agreed that where information on such characteristics was to be requested in the Technical Questionnaire, that information should be requested in Section 7 of the Technical Questionnaire (Additional information which may help in the examination of the variety), rather than in Section 5 (Characteristics of the variety to be indicated). In that respect, it noted that the information in Section 7 was provided at the discretion of the breeder/applicant. The TC agreed that that approach should be applied to the draft Test Guidelines for Spinach, document TG/55/7(proj.3), characteristics 18 (Resistance to *Peronospora farinosa* f. *spinaciae*) and 19 (Resistance to Cucumber mosaic virus (CMV)) and should also be considered in respect of the revision of TGP/7.

\* 117. In addition, the TC agreed that the following matters should also be considered in the revision of TGP/7:

- (a) elaboration of the two uses of the grouping characteristics, i.e.

TGP/7/1, Annex I: TG Template: Chapter 5.2

“(a) to select, either individually or in combination with other such characteristics, varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness”; and

“(b) “to organize the growing trial so that similar varieties are grouped together”.  
[underlining added for emphasis];

and to consider indicating in Chapter 5.3 of the Test Guidelines for which of those purposes the grouping characteristics were intended;

- (b) the development of a simple, generalized growth stage key for use in Test Guidelines covering crops and species for which a suitable growth stage key had not been published; and

(c) in relation to the indications used in UPOV Test Guidelines for the method of observation and the type of record for the examination of distinctness (VG, VS, MG, MS), to consider revising document TGP/7/1 in line with the text adopted in document TGP/9/1 (see document TGP/9/1 Draft 9, Section 4.4).

\* 118. In relation to Section 6 “Combining observations for all characteristics” in document TGP/10, the TC agreed that it would be necessary to consider the possible inclusion of that

matter in the revision of document TGP/7/1 at its next session, when the development of that section of document TGP/10 would be more advanced.

(c) *Other TGP documents*

*TGP/8: Use of Statistical Procedures in DUS Testing*

\* 119. The TC considered the proposed structure and content of document TGP/8, as set out in document TC/43/5, Annex II, and agreed the following:

<i>Section</i>	<i>Comment</i>
Part II	to add a new section for multiple range tests, subject to models and assumptions being provided to the TWC for consideration.

*TGP/12: Special Characteristics*

\* 120. The TC did not consider document TGP/12/1 Draft 1 in detail, but agreed the following amendment:

<i>Section</i>	<i>Comment</i>
2.	to add a section (as found in Section 3) explaining that “UPOV has also considered the possibility of using gene-specific molecular markers as a predictor of traditional characteristics in order to avoid the need for examination in a growing trial of characteristics which may be difficult and/or expensive to observe in a growing trial. The situation in UPOV concerning the use of such an approach, known as an ‘Option 1(a)’ approach, is set out in documents TC/38/14 -CAJ/45/5 and TC/38/14 Add.-CAJ/45/5 Add.. Those documents clarify that a number of assumptions would need to be checked before the use of such an approach, including the need to establish that there was a reliable linkage between any gene-specific marker and the expression of the disease resistance concerned [and that different genes lead to different genotypic expressions]”

*TGP/13: Guidance for New Types and Species*

\* 121. The TC did not consider document TGP/13/1 Draft 8 in detail and made no proposals concerning the text.

*TGP/14: Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents*

\* 122. The TC considered the proposed structure and content of document TGP/14, as set out in document TC/43/5, Annex III and agreed the following :

<i>Section</i>	<i>Comment</i>
Section 1	to review the title of the section if the content extends beyond technical terms, as was the case in the terms currently included

*(d) Program for the development of TGP documents*

\*123. The TC agreed the program for the development of TGP documents as set out in document TC/43/5, Annex IV.

UPOV information databases

*GENIE database*

124. The Technical Director introduced document TC/43/6 and reported that the data in the Access version of the GENIE database had been successfully transferred into an Oracle database, which would allow it to be made available on the UPOV website. He confirmed that the improvements to the prototype Access version of the database sought by the Office and the TC (see document TC/42/12 “Report”, paragraph 110) had been incorporated into the Oracle database. He informed the TC that the Oracle version of the GENIE database had already been used to generate document TC/43/4. It was planned that the GENIE database would be made available online within six months.

\*125. The TC noted the plans to launch the GENIE database on the freely-accessible area of the UPOV website, as reported to the TC at its forty-third session.

*UPOV Code System*

\*126. The TC considered document TC/43/6.

\*127. The TC agreed to the amendment to Section 3.3 (d) of the Annex to document TC/43/6, as set out in paragraph 7) of that document. It also agreed with respect to the Annex to document TC/43/6, that “Triticale” should be amended to read “×*Triticosecale*” in Section 2.2.2 and that “draft” should be amended to “create” in Section 3.3 (a).

\*128. The TC requested the TWPs to consider the possibility of allowing flexibility in the species element of the UPOV code in order to cover a classification into, for example, subgenera and/or sections, between the genus and species level of classification, taking into account the example in document TC/43/6, paragraphs 8 and the grouping classification for *Brassica* and *Beta*, set out in document TC/43/6, Annex, Section 2.3.

\*129. The TC noted the plans for the checking of UPOV codes by the TWPs, as set out in document TC/43/6, paragraph 10.

\*130. The TC agreed to the posting of the Annex to document TC/43/6 on the freely-accessible area of the UPOV website as set out in document TC/43/6, paragraph 11, subject to the amendments agreed by the TC at its forty-third session.

*UPOV-ROM Plant Variety Database (UPOV-ROM)*

\* 131. The TC noted the plans concerning the Plant Variety Database as set out in document TC/43/6. The TC heard that, with regard to the inclusion of UPOV codes in the data submitted for the UPOV-ROM, around 64% of the entries contained in the UPOV-ROM had been supplied with UPOV codes. Almost all of the data provided to UPOV via the CPVO had been UPOV coded, in particular the data from the European Community, most of the member States of the European Community, Norway and Switzerland. In addition, Canada, the Russian Federation and South Africa were already providing UPOV codes for all their entries.

132. The representative of the OECD confirmed the great interest which the OECD had in the development work on the UPOV-ROM Plant Variety Database. He recalled that OECD certification was separate from UPOV and plant breeders' rights, but noted that the OECD had a number of issues in common with those discussed by the TC. In particular, the practical and theoretical work that was done by UPOV on DUS was very important for OECD. In that respect, there were a number of aspects concerning varietal purity and identity in OECD where UPOV had been invited to cooperate. The information contained in the UPOV-ROM was also important and he hoped that information would continue to be made available. The OECD Seed Schemes did not extend to the coverage of all the species for which UPOV had developed Test Guidelines; however, he reported that there was a need for some updating within the OECD for certain guidelines, which was why cooperation between the two bodies was planned to be initiated at the OECD Seed Schemes Annual Meeting in July 2007. That substantive work would have immediate benefits for certification agencies at the national level and at the OECD level. The new OECD variety list drawn up in 2006 contained 39,000 varieties for 193 species; an increase of approximately 6% on 2005. That list was available on the web and in CD-ROM format. Consideration was being given to developing the possibility of updating on-line by the certification agencies. He noted that the same issues of security and transmission of data, as those being considered by UPOV in relation to the Plant Variety Database, were also being faced by OECD. Starting in 2007, an interim OECD list of varieties would be published in an intermediary publication in July, representing a first step towards a more continuous updating of the list, instead of a single, annual updating. The representative of OECD also informed the TC of the discussions which were taking place with regard to variety denominations and noted that UPOV had a representative as a member of their working group. In conclusion, given the interest for the certification agencies in the OECD to have more information on the GENIE database and given their use of the UPOV-ROM, he invited the UPOV Office to make a presentation on the UPOV-ROM and the GENIE database at the annual meeting of the OECD Seed Schemes in July 2007.

133. The Technical Director thanked the representative of OECD for the information and for the invitation to continue and extend the good cooperation between UPOV and OECD. He confirmed that the UPOV secretariat would endeavor to cooperate as fully as possible in matters of mutual interest.

Molecular techniques (documents TC/43/7 and BMT Guidelines (proj.8))

\* 134. The TC considered document TC/43/7.



*Guidelines for Molecular Marker Selection and Database Construction (BMT Guidelines)*

\*135. The TC agreed the following amendments to document BMT Guidelines (proj.8):

<i>Section</i>	<i>Comment</i>
6.3.1 (c)	to change “locus” to “allele”, subject to confirmation by Mr. Sylvain Grégoire (France), the drafter of that section. <sup>1</sup>

\*136. The TC agreed that, subject to the amendments above, document BMT Guidelines (proj.8) should be put forward for adoption by the Council at its forty-first ordinary session, to be held in Geneva on October 25, 2007;

\*137. The TC agreed that relevant experts be invited to make a presentation concerning ISO and Codex guidelines, in relation to quality criteria in molecular techniques, at the eleventh session of the BMT.

\*138. With regard to a practical exercise in the development of an exchangeable database, as set out in document TC/43/7, paragraphs 6 and 7, the TC agreed that the BMT Crop Subgroups for Rose, for Potato and for Oilseed Rape should be invited to consider how to take that matter forward. With respect to the terms of reference for such an exercise, the TC agreed that the exercise should consider both the quality and structure of the data.

*Possible Use of Molecular Tools for Variety Identification in Relation to the Enforcement of Plant Breeders' Rights, Technical Verification and the Consideration of Essential Derivation*

139. The Delegation of Japan explained that it believed molecular techniques, and in particular DNA analysis, to be very useful methods for strengthening the enforcement of plant breeders' rights. The conclusion of the discussion, as recorded in document TC/43/7, was rather disappointing for Japan because it had expected that a review of the terms of reference of BMT and BMT Review Group might have encouraged UPOV to play a much more active role in that matter. However, as the Vice Secretary-General had noted, the BMT provided a very important forum for discussion on the use of molecular techniques for variety identification in relation to enforcement under the current terms of reference and the Delegation realized that, as a result of the discussion last October, the Consultative Committee had agreed that the BMT should continue discussions on that matter. The Delegation of Japan informed the TC that Japan was planning to collect and reserve DNA samples of registered varieties for promoting the use of DNA-analysis for the enforcement of plant breeders' rights. In addition, it had set up a working group to review how to assess possible application models for the use of biochemical and molecular techniques. It anticipated that it would be able to provide information on those activities and hoped that the BMT would actively discuss that matter.

\*140. The TC noted the conclusion of the Consultative Committee that the role of the BMT enabled it to provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of variety identification without a need for a change to the existing terms of reference and also noted that an overview of the UPOV bodies involved in the consideration of biochemical and molecular techniques has been provided on the first

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<sup>1</sup> Mr. Grégoire advised that the term “locus” should be changed to “allele of a given locus”.

restricted area of the UPOV website. The TC noted the importance of the BMT Crop Subgroups as a forum for DUS experts and molecular specialists to consider matters at a crop specific level. The TC noted the importance of the TWPs in the consideration of biochemical and molecular techniques and the contact between other UPOV bodies dealing with those matters. It noted the importance of communication between the TWPs, BMT, TC, CAJ and the Council within the existing UPOV structure.

\*141. The Chairperson noted that there was a mistake in the French version of document TC/43/7, where the word “caractérisation” should be replaced by “identification” in the title and in paragraphs 9, 10, 12 and 16.

*Proposals Concerning the BMT and the Ad Hoc Crop Subgroups on Molecular Techniques (Crop Subgroups)*

\*142. The TC noted the intention to provide information at the forty-first session of the TWV on work in relation to the use of molecular markers, in particular in relation to disease resistance. The Delegation of Spain noted, with respect to document TC/43/7, paragraph 18, that the experts from Spain would provide information on both pepper and tomato at the forty-first session of the TWV.

\*143. The TC agreed that specific sessions should be organized at the BMT for vegetatively propagated, self-pollinated and cross-pollinated crops and, on that basis, agreed to discontinue the Vegetatively Propagated Crop Subgroup. The TC noted the intention, at the eleventh session of the BMT, to dedicate a specific day to the items concerning “The use of molecular techniques in the consideration of essential derivation” and “The use of molecular techniques in variety identification”

\*144. The TC noted the support of the TWA for the work of the Crop Subgroups and noted that the TWA would be invited to propose a new Chairperson for the Crop Subgroup for Wheat and Barley at its thirty-sixth session. The TC noted the planned program for meetings of the Crop Subgroups for Potato, Rose and Maize.

\*145. The TC agreed to invite the Crop Subgroups to develop proposals concerning the possible use of molecular tools for variety identification in relation to the enforcement of plant breeders’ rights, technical verification and the consideration of essential derivation

Variety denominations

\*146. The TC noted the developments reported in document TC/43/8.

Publication of variety descriptions

\*147. The TC considered document TC/43/9.

\*148. The TC noted the report on developments in the *Ad hoc* Working Group on the Publication of Variety Descriptions (WG-PVD), CAJ and TWPs, as presented in document TC/43/9 and the list of criteria for the use of descriptions obtained from different locations and sources, as set out in the Annex to document TC/43/9 and agreed to the amendments proposed in paragraphs 17 and 18 of document TC/43/9.

\* 149. The TC noted that the work in the TWV would be reported at the forty-fourth session of the TC and agreed that no further meeting of the WG-PVD should be arranged unless or until specific proposals were developed for the consideration of the WG-PVD by the TC or by a TWP.

#### Preparatory workshops

\* 150. The TC noted the report of the preparatory workshops held in 2006 and the proposals for the proposed program for 2007 as set out in document TC/43/10.

\* 151. The TC noted that there would be a full day event held in conjunction with the thirty-eighth session of the TWF, to be held in Jeju, Republic of Korea, from July 9 to 13, 2007, comprising a preparatory workshop for the TWF session and a technical workshop on the examination of Distinctness, Uniformity and Stability (“DUS”). The technical workshop would take the form of presentations by experts from the members of the Union on their procedures for DUS testing of fruit varieties.

\* 152. The Delegations of Kenya, Republic of Korea and Romania invited the TC participants to take part in the preparatory workshops for the sessions of the TWV, the TWF and the TWC, respectively and the associated activities to those preparatory workshops.

#### Applications covering a combination of lines

\* 153. The TC considered document TC/43/11.

154. The Delegation of Mexico supported the proposal in document TC/43/11 that examples of specific cases concerning a single application for a plant breeder’s right for a combination of different lines should be raised with the relevant TWP, where appropriate in relation to the relevant Test Guidelines. It noted that the example of coffee would need to be raised with the TWA and TWF and informed the TC that there were some cases in Mexico concerning rice and beans.

155. The Delegation of the Republic of Korea noted that the matter was being considered by the CAJ in the framework of its work on developing information materials concerning the UPOV Convention. It reported an application for plant breeders’ rights for a variety of rice in the Republic of Korea, which had been refused for lack of uniformity, where the application covered three isogenic lines, of equal proportion, where the lines had different resistances to rice blast. The Delegation proposed that that example should be considered by the TWA.

156. The Delegation of Colombia noted the importance in Colombia of combinations of lines as a diversity measure for disease control and explained that it would be important to know what possibilities would exist for plant breeders’ rights on such material.

157. The Delegation of France agreed with the proposal that examples of specific cases should be discussed in the TWPs, but emphasized the need for care when considering such matters. It noted, in particular, that there was a need to respect the definition of a variety, as set out in Article 1(vi) of the 1991 Act of the Convention. There were also important technical aspects to be considered with regard to uniformity and the need to consider distinctness. The Delegation recalled that the matter had been discussed previously in the TC

with regard to the testing of seed-propagated varieties of ornamental species and also with regard to male sterile lines in varietal associations of oilseed rape.

158. The Delegation of Kenya informed the TC that it had encountered such combinations of lines and encouraged the TC to consider the matter.

159. The representative of ISF endorsed the need for care when considering the matter, noting that it was of fundamental importance for breeders. He was in favor of the matter being considered by the TC and CAJ, rather than being left to the TWPs to make conclusions on how to handle such applications.

160. The Delegation of Argentina noted that the matter represented a new challenge and considered that UPOV needed to develop guidance.

161. The Delegation of Germany observed that the matter was very sensitive and emphasized the need to analyze the situation carefully, on the basis of suitable examples.

\*162. The TC agreed that examples of specific cases concerning a single application for a plant breeder's right for a combination of different lines should be raised with the relevant TWP, where appropriate in relation to the relevant Test Guidelines. Given the importance of the matter, which related to the definition of variety in the 1991 Act of the UPOV Convention, the TC agreed that it should be clarified that the TWPs should investigate the specific cases from a technical perspective in order to facilitate consideration of the principles by the TC and the CAJ.

### Test Guidelines

\*163. The TC considered document TC/43/2.

\*164. With regard to Annex I of document TC/43/2, the TC heard that following the TWV session there had been a further consultation by correspondence within the TWV concerning characteristic 26 (Earliness) of the draft Test Guidelines for Cauliflower (see document TG/45/7(proj.3)). As a result of that consultation, the Leading Expert in conjunction with the Chairman of the TWV agreed that the revised Test Guidelines for Cauliflower should be discussed again by the TWV at its forty-first session, in 2007, in order to resolve that characteristic. The TC also noted that the relevant reference of the Test Guidelines for Sutera and Jamesbrittania to be considered by the TC for adoption was TG/SUTERA(proj.4 Rev.).

\*165. The TC adopted the Test Guidelines listed in the table below on the basis of the amendments, as specified in Annex II to this document, which was circulated in advance, the linguistic changes recommended by the Enlarged Editorial Committee (TC-EDC):

Document No. N°. du document Dokument-Nr. No del documento	English	Français	Deutsch	Español	Botanical name Nom botanique Botanischer Name Nombre botánico
TG/18/5(proj.4)	Elatior Begonia, Winter-flowering begonia	Bégonia elatior	Elatior-Begonie	Begonia elatior	Begonia ×hiemalis Fotsch, Begonia ×elatior hort.
TG/49/8(proj.3)	Carrot	Carotte	Möhre	Zanahoria	Daucus carota L.
TG/55/7(proj.3)	Spinach	Épinard	Spinat	Espinaca	Spinacia oleracea L.
TG/61/7(proj.4)	Cucumber, Gherkin	Concombre, Cornichon	Gurken	Pepino, Pepinillo	Cucumis sativus L.
TG/70/4 Rev.(proj.2)	Apricot	Abricotier	Aprikose, Marille	Albaricoquero, Chabacano, Damasco	Prunus armeniaca L., Armeniaca vulgaris Lam.
TG/137/4(proj.4)	Blueberry	Myrtille	Kulturheidelbeere	Arándano	Vaccinium angustifolium Aiton; V. corymbosum L.; V. formosum Andrews; V. myrtilloides Michx.; V. myrtillus L.; V. virgatum Aiton; V. simulatum Small
TG/140/4(proj.4)	Pot Azalea	Azalée en pot	Topfazalee	Azalea	Rhododendron simsii Planch.
TG/155/4(proj.3)	Pumpkin	Giraumon, Potiron	Riesenkürbis	Calabaza, Zapallo	Cucurbita maxima Duch.
TG/215/1 Rev.(proj.2)	Clematis	Clématite	Clematis, Waldrebe	Clemátide	Clematis L.
TG/ANGLN(proj.3)	-	-	-	-	Angelonia angustifolia Benth. and its hybrids
TG/COM_MIL(proj.6)	Common Millet	Millet commun, Panic millet, Panic faux millet	Rispenhirse	Mijo común	Panicum miliaceum L.
TG/CUC_MOS(proj.4)	Butternut, Butternut Squash, Cheese Pumpkin, China Squash, Cushaw, Golden Cushaw, Musky Gourd, Pumpkin, Winter Crookneck Squash	Citrouille, Courge musquée, Courge noix de beurre	Bisamkürbis, Moschuskürbis	Ayote, Calabaza de Castilla, Calabaza moscada, Calabaza pellejo, Chicamita, Lacayote, Sequaloa, Zapallo	Cucurbita moschata Duch.
TG/DIASC(proj.3)	Diascia, Twinspur	Diascia, Diascie	Diascie	Diascia	Diascia Link & Otto
TG/HUSK(proj.5) <sup>2</sup>	Husk Tomato	Alkékenge du Mexique, Coqueret, Physalis, Tomatillo, Tomate fraise	Mexikanische Blasenkirsche, Tomatillo	Miltomate, Tomatillo, Tomate de cáscara, Tomate de hoja, Tomate verde	Physalis ixocarpa Brot., Physalis philadelphica Lam
TG/HYPER_PER(proj.3)	St. John's Wort, Common St. John's Wort, Goat weed, Klamath weed, Tipton weed	Millepertuis	Johanniskraut	Hipericón, Hipérico, Hierba de San Juan, Corazoncillo	Hypericum perforatum L.
TG/MOM(proj.3)	Balsam apple, Balsam pear, Bitter cucumber, Bitter gourd, Bitter melon, Cassila gourd,	Concombre africain Margose, Momordique	Balsambirne, Bittergurke	Balsamito, Cundeamor, Momordica	Momordica charantia L.
TG/SUTERA(proj.4 Rev.)	Sutera; Jamesbrittenia	Sutera; Jamesbrittenia	Sutera; Jamesbrittenia	Sutera; Jamesbrittenia	Sutera Roth; Jamesbrittenia O. Kuntze
TG/TAGETE(proj.6)	Marigold	Tagète, Oeillet d'Inde, Rose d'Inde	Studentenblume	Clavel de las indias, Clavelon, Cempoalxóchitl	Tagetes L.

\*166. With regard to the draft Test Guidelines for Grain Amaranth, document TG/AMARAN(proj.6), the TC noted the changes proposed by the TC-EDC, which are specified in Annex II to this document, and the report of the TC-EDC that there were technical issues to be resolved with the Test Guidelines, which it had not been possible to resolve. In accordance with the recommendation of the TC-EDC, the TC referred the Test Guidelines back to the TWA for further consideration.

\*167. With regard to the draft Test Guidelines for Onion, Shallot, document TG/46/7(proj.3), the TC noted the changes proposed by the TC-EDC, which are specified in Annex II to this document, and the report of the TC-EDC that there were technical issues to be resolved with the Test Guidelines, which it had not been possible to resolve. In accordance with the recommendation of the TC-EDC, the TC referred the Test Guidelines back to the TWV for further consideration.

168. The TC received a report from the Technical Director on certain problems which the TC-EDC had encountered in its work because some of the Test Guidelines submitted for adoption had not fulfilled the requirements for “final” draft Test Guidelines as set out in document TGP/7/1, Chapter 2.2.5.3 and were missing important information.

169. The Delegation of Germany suggested that the TWPs should review whether the number of Test Guidelines which they were developing was appropriate. It pointed to the factors for prioritizing the commissioning of Test Guidelines as set out in document TGP/7/1 and, in particular, the need to focus on Test Guidelines where international harmonization was important. In that respect, it noted that there were several Test Guidelines being developed for which there were no varieties included in the UPOV-ROM.

170. The Delegation of France noted that the TC-EDC had needed to consider draft Test Guidelines where technical issues had not been resolved and observed that such a development could undermine the work of the TWPs.

171. The Delegation of the European Community noted that it was reviewing the structure and function of the UPOV bodies and supported the need for the matters raised by the Delegations of Germany and France to be considered.

172. The representative of the OECD expressed the appreciation of the OECD for UPOV’s work on Test Guidelines. He explained that the certification agencies of the OECD selected characteristics from the UPOV Test Guidelines as the basis for their work in monitoring seed crops and post-control plots. However, that process had last been done at the end of the 1980s and the OECD was going to review the choice of its “primary” and “secondary” characteristics. The terminology used by OECD at the time would also be reviewed. The representative appreciated the information on the botanical and common names for the genera and species covered by UPOV Test Guidelines, as set out in document TC/43/2, Annex III. He also noted the emphasis which had been placed by the Office of the Union on reference to the GRIN database in relation to botanical classification and that the GRIN database could be readily updated according to UPOV’s requirement. OECD could also benefit from such a technical exchange in relation to that internationally-recognized database.

\*173. The TC noted the report from the TC-EDC that it had encountered problems in its work because some of the Test Guidelines submitted for adoption had not fulfilled the requirements for “final” draft Test Guidelines as set out in document TGP/7/1, Chapter 2.2.5.3 and were missing important information. The TC agreed that the Technical Working Parties should

ensure that the requirements for Test Guidelines to be submitted to the Technical Committee were fulfilled and agreed that Test Guidelines which did not fulfill those requirements should be referred back to the relevant Technical Working Party. It was also agreed that, in order to establish a realistic workload, the TWPs should take into account the factors for prioritizing the commissioning of Test Guidelines, as set out in document TGP/7/1, Section 2.2.2.2.

\*174. The TC noted that, in document TC/43/2, Annex II, the drafters for the Test Guidelines for Bougainvillea (TG/BOUGA) should read “AU/DK”. It also noted that in Annexes II and III, the Test Guidelines to be revised by the TWO should be the Test Guidelines for Zonal Pelargonium (TG/28/8) rather than the Test Guidelines for Regal Pelargonium (TG/109/3) and that in Annex III, the UPOV code for the Test Guidelines for Curly Kale (TG/90/6) should read “BRASS\_OLE\_GAS”.

\*175. The TC agreed the plans for the development of new Test Guidelines and the revision of existing ones, as shown in document TC/43/2, Annex II. The TC noted, in particular, those Test Guidelines which were considered by the relevant TWPs to be at a final draft stage.

\*176. The TC noted the status of the existing Test Guidelines as listed in document TC/43/2, Annex III.

\*177. The TC noted the corrections to be made to the Test Guidelines for Vegetable Marrow, Squash (*Cucurbita pepo* L.), document TG/119/4, as set out in document TC/43/2, paragraphs 6 and 7. It also noted that a correction needed to be made to the Test Guidelines for TG/230/1 Sour Cherry (*Prunus cerasus* L.) and Duke Cherry (*Prunus ×gondouinii* (Poit. & Turpin) Rehder), where the UPOV Code for Sour Cherry (*Prunus cerasus* L.) should be changed from “PRUNU\_CSD” to “PRUNU\_CSS”.

#### List of genera and species for which authorities have practical experience in the examination of Distinctness, Uniformity and Stability

\*178. The TC noted the information provided in document TC/43/4 and heard that the number of genera and species for which members of the Union had practical experience had increased from 1,906 in 2006 to 2,010 in 2007. It also heard that information had been provided for the first time by Albania, Republic of Moldova, Tunisia and the United States of America. The TC agreed that the document should be updated for the forty-fourth session of the TC.

#### Program for the forty-fourth session

\*179. The following draft agenda was agreed for the forty-fourth session of the TC to be held in Geneva in 2008:

1. Opening of the session
2. Adoption of the agenda
3. Report on developments in UPOV including relevant matters discussed in the last sessions of the Administrative and Legal Committee, the Consultative Committee and the Council (oral report by the Vice Secretary-General)

4. Progress reports on the work of the Technical Working Parties, including the Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular (BMT) and Crop Subgroups
5. Matters arising from the Technical Working Parties
6. TGP documents
7. UPOV information databases
8. Molecular techniques
9. Variety denominations
10. Publication of variety descriptions
11. Preparatory workshops
12. Applications covering a combination of lines
13. Test Guidelines
14. List of genera and species for which authorities have practical experience in the examination of Distinctness, Uniformity and Stability
15. Program for the forty-fifth session
16. Adoption of the report on the conclusions reached in the session (if time permits)
17. Closing of the session

#### Chairperson and Vice-Chairperson

\*180. The TC noted that the chairmanship of Ms. Julia Borys (Poland) would expire with the closing of the forthcoming ordinary session of the Council in October of the current year. It proposed to the Council that it elect Mrs. Françoise Blouet (France) as new Chairperson and Mr. Chris Barnaby (New Zealand) as new Vice-Chairperson of the TC for the forthcoming three-year term.

#### UPOV Medal

181. At the end of the session, the Vice Secretary-General awarded Mrs. Julia Borys (Poland) a UPOV silver medal in recognition of her chairmanship of the TC from 2005 to 2007.

*182. The present report has been adopted by correspondence.*

[Annexes follow]



ANNEXE I / ANNEX I / ANLAGE I / ANEXO I

LISTE DES PARTICIPANTS / LIST OF PARTICIPANTS /  
TEILNEHMERLISTE / LISTA DE PARTICIPANTES

*(dans l'ordre alphabétique des noms français des membres/  
in the alphabetical order of the names in French of the members/  
in alphabetischer Reihenfolge der französischen Namen der Mitglieder/  
por orden alfabético de los nombres en francés de los miembros)*

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[L'annexe II suit/  
Annex II follows/  
Anlage II folgt/  
Sigue el Anexo II]

## ANNEX II

AMENDMENTS TO THE UPOV DRAFT TEST GUIDELINES  
PRIOR TO THEIR ADOPTION AT THE FORTY-THIRD SESSION OF  
THE TECHNICAL COMMITTEE (TC)

## GENERAL:

“(TWV)” indicates information which the Technical Working Party for Vegetables agreed needed to be provided.

## INDIVIDUAL TEST GUIDELINES:

TG/18/5(proj.4)	Elatior Begonia (Revision)
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(a) Changes to document TG/18/5(proj.3), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/18/5(proj.4)), submitted to the TC:

2.2	to read: “... in form of young plants from non-induced terminal cuttings”
2.3	to read: “20 young plants from non-induced terminal cuttings”
5.3 (e)	groups to be listed
Char. 6	example variety needed for state 4 (asterisked characteristic) <i>provided by Leading Expert</i>
Char. 9	to check whether to add note (a) <i>Leading Expert: agreed</i>
Char. 18	to add “(*)” (grouping and TQ characteristic)
Char. 21	to add “(*)” (grouping and TQ characteristic) and provide example varieties <i>example varieties provided by Leading Expert</i>
Char. 22	underline “upper” (in English)
Ad. 18	to consider replacing “color hue” with “color” throughout text, i.e. delete “hue” <i>Leading Expert: agreed</i>

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 9	to check whether to reword to “Leaf blade: angle of apex”, with the states: moderately acute (3); right angled (5); moderately obtuse (7)
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TG/46/7(proj.3)	Onion, Shallot (Revision)
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(a) Changes to document TG/46/7(proj.2), made on the basis of comments received from members of the Enlarged Editorial Committee in January 2007, which are already incorporated in the draft Test Guidelines (document TG/46/7(proj.3)), submitted to the TC:

1.	commas and semi-colons in the paragraph to be reviewed
1.	to consider deleting “seed and vegetatively propagated” <i>Leading Expert: agreed</i>
2.3	to check number of bulblets <i>Leading Expert: replace 200 bulblets by 300 bulblets</i>
3.3.1	<i>Leading Expert: delete the reference to the stages as the mix of onions and shallots in the document make it complicated to follow</i> – all relevant entries in the Table of Characteristics to be removed (Chars. 5, 8, 9, 17, 18, 22, 25, 27, 29, 31, 33, 34.1, 35, 36 - Chapters 6.5(1) and 8.2 to be deleted
3.4.1	check whether to replace “applied for” by “of” <i>Leading Expert: no change</i>
3.5	check whether to replace “cross-pollinated and hybrid varieties” with “seed-propagated varieties” <i>Leading Expert: agreed</i>
3.5	to read: “Unless otherwise indicated, in the case of cross-pollinated varieties all observations <u>on single plants</u> should be made on 60 plants or parts taken from each of 60 plants; and in the case of vegetatively propagated varieties, all observations <u>on single plants</u> should be made on 40 plants or parts taken from each of 40 plants. <u>Any other observation should be made on all plants in the test.</u> ”
4.2.1, 4.3.3	to check whether to replace “Cross-pollinated varieties” with “Seed-propagated varieties” <i>Leading Expert: delete 4.3.3 and add Hybrid varieties under 4.2.1</i>
4.2.2	to check whether title to read “Vegetatively propagated varieties” <i>Leading Expert: agreed</i>
4.2.2	To indicate number of off-types allowed in sample of 100 (see 3.4.1) <i>provided by Leading Expert</i>
6.5 (2)	to check whether to be moved to Chapter 8 <i>Leading Expert: agreed</i>
6.5 (2)	to consider rewording:  <i>Leading Expert:</i> “Grouping for onion and shallot:  Grouping for onion and shallot is based on characteristics 10 and/or 11, in conjunction with characteristic 27.  Seed-propagated varieties with states 1, 2 or 3 for characteristic 10 are grouped as onion/echalion and varieties with states 7, 8 or 9 are grouped as shallot. Varieties of seed shallots with states 1, 2, 3, 4, 5 or 6 are grouped after re-planting in a second year according to characteristic 11.

6.5 (2) (contd.)	<p>Varieties with states 1, 2 or 3 for characteristic 11 are grouped as onions/echalions and varieties with states 7, 8 or 9 are grouped as shallots. Varieties with states 4, 5 or 6 for characteristic 11 are grouped according to the number of growing points for characteristic 27 after vegetative multiplication (in the second growing cycle).</p> <p>Varieties with states 1, 2 or 3 for characteristic 27 are grouped as onions/echalions and varieties with states 5, 6, 7, 8 or 9 are grouped as shallots.</p> <p>Varieties with state 4 for characteristic 27 should be compared with varieties in both the onion and shallot groups.</p>
6.5 (2)	<p>- schematic: to replace “exchange of results and/or material –decision after bilateral consultation” with “varieties with state 4 should be compared with varieties in both the onion and shallot groups”</p> <p><i>Leading Expert: agreed</i></p>
Table of Chars.	to check spelling of example variety Creation / Création <i>provided by Leading Expert</i>
Char. 1	keep “pseudostem” on one line
Char. 3	state 1 to read “absent or very weak”
Char. 4	to check whether to read “intensity of green color” <i>Leading Expert: agreed</i>
Char. 5	example varieties to be checked (T WV) <i>checked by Leading Expert</i>
Char. 5	state 2 to read “intermediate”
Char. 10	to indicate (O) for Lagos
Char. 11	add (+) with an explanation of the part in brackets <i>provided by Leading Expert</i>
Char. 12.1	to delete “(O)” (also TQ 5.4.1)
Char. 12.2	add (+) with an explanation of “shallot varieties grown from bulblets” i.e. whether this means seed-propagated shallot varieties which are replanted as bulbs in the second year and/or vegetatively propagated shallot varieties <i>Leading Expert: no change</i>
Char. 13.1	example variety to be provided for state 1 <i>Leading Expert: example variety for state 1: “Prompto”</i>
Char. 13.1	to correct “very” (state 9)
Char. 13.2	to have “bulblet” on one line
Char. 18	“general” to be deleted (at any time we look on the general expression)
Char. 18	state 8 to read “transverse medium elliptic”
Char. 18	to review order of states. (primary order – broadest part below middle to broadest part above middle; and secondary order – narrow to broad) <i>Leading Expert: no change</i>
Char. 19	to consider re-ordering states: strongly sloping(1) to depressed(6) <i>Leading Expert: no change</i>
Char. 20	to check whether to replace “recessed” with “depressed” <i>Leading Expert: agreed</i>
Char. 20	to consider re-ordering states: strongly tapered(1) to recessed (5) <i>Leading Expert: no change</i>
Chars. 23, 24	to add (+) with an explanation of “basic” color (see TGP/14) <i>Leading Expert: no change</i>

Char. 23	to check order of colors – pink and red to go before brown? <i>Leading Expert: no change</i>
Chars. 23, 24, 25	to provide a table of example varieties to illustrate differences between basic color, intensity of color and color hue. Alternatively, provide example varieties for Char. 24 and include all example varieties used for Char. 25 as example varieties for Chars. 23 and 24. (Note: ‘Topper’ has yellow basic color with yellowish hue – is that correct?) <i>Leading Expert: no change</i>
Char. 25	to check order of colors – pinkish, reddish and purplish to go before brownish <i>Leading Expert: no change</i>
Char. 28	Asterisk to be added (TQ characteristic) <i>Leading Expert: agreed</i>
Char. 34.2	to check whether to indicate whether autumn or spring-sown trials <i>Leading Expert: no change</i>
8.1	to delete 8.1 header
Ad. 5	explanation of cranking to be provided (TWV) <i>to be provided</i>
Ad. 8, 9	to check upper line for 8 and/or indicate which is the highest green leaf <i>Leading Expert: no change</i>
Ad. 16	to replace “apex” with “top” in legend under drawing
Ad. 16	state 1: move arrows to point of maximum diameter <i>Leading Expert: agreed</i>
Ad. 27	second paragraph to be reviewed – is it necessary to add anything beyond the indication of “MS” which is provided in the Table of Characteristics? <i>Leading Expert: no change</i>
Ad. 27	illustration to be corrected <i>to be provided</i>
Ad. 28	delete “we should be aware that” <i>Leading Expert: agreed</i>
Ad. 36	to be provided (TWV)
TQ	to correct “Page” in title row
TQ 4.2	question to be added requesting whether the variety is seed propagated or vegetatively propagated <i>Leading Expert: agreed</i>
TQ 5.2	keep “(O)” on same line as “Texas grano 502”
TQ 5.4.2	to delete “)” after “Topper”
TQ 5.6	to be updated according to the Table of Characteristics
TQ 6	example to be provided <i>Leading Expert: agreed</i>
TQ 7.2.3	to delete the numbers “1”, “2”, “3” and leave boxes (as for 7.2.1)

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

Alternative names	to add as French common names: “Echalion” for <i>Allium cepa</i> L. var. <i>cepa</i> and “Echalote grise” for <i>Allium oschaninii</i> O. Fedtsch. “To be checked” to be deleted from <i>Allium cepa</i> L. var. <i>aggregatum</i> G. Don.
2.3	to check whether the quantity of seed should be reduced
3.3	to provide a full explanation of the growing cycles in which the examination is to be conducted for the different types of varieties



3.4.1	to add “for” after “applied” (twice)
new 5.5	to make a reference to the grouping of onion and shallot in Chapter 8.1
Char. 11	to move text in brackets to a note (a) in Chapter 8
Chars. 12.2, 13.2, 14.2, 15.2,	to add note (a)
Chars. 23, 24, 25	to change “basic” top “base”
Char. 23	to include all example varieties from Char. 25
8.1	to clarify explanation and schematic and to check whether the grouping process is correct for example variety “Atlas (S)” in Char. 11 (note 3 = onion/echalion). A new proposal concerning the explanation and schematic, discussed at the TC-EDC, to be provided to the Leading Expert by the Office of the Union.
8.2 (new)	to add note (a): characteristics which should be examined on vegetatively propagated varieties, including re-planted bulbs harvested from seed-propagated varieties
Ad. 5	to delete “[Explanation of cranking to be provided]”
Ad. 8, 9	to provide explanation of the points to which the lines are drawn
Ad. 10, 11	to delete text “Characteristic 11: ...”
Ad. 36	to be provided

TG/49/8(proj.3)	Carrot (Revision)
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(a) Changes to document TG/49/8(proj.2), made on the basis of comments received from members of the Enlarged Editorial Committee in January 2007, which are already incorporated in the draft Test Guidelines (document TG/49/8(proj.3)), submitted to the TC:

3.5	to correct spelling of “observations”
4.2.1	to consider modifying as follows:  “The assessment of uniformity for cross-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction- <del>Uniformity could be additionally assessed on the basis of</del> For the characteristics external color of root (characteristic 13) and color of core of root (characteristic 19). <del>In such a case,</del> a population standard of 2% and an acceptance probability of 95% should be applied. In the case of a sample size of 400 plants, 13 off-types are allowed.” <i>Leading Expert: agreed</i>
4.2.1	to check if sample size 400 is appropriate for characteristic 19. <i>Leading Expert: change sample size to 200</i>
4.3.2	to check if should read (ASW 9(b)) “Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a <u>new seed stock</u> to ensure that it exhibits the same characteristics as those shown by the previous material supplied.” <i>(has been changed)</i>
Char. 10	state 3 to read “medium obtriangular”
Chars. 19, 21	example varieties to be provided for states 5 and 6 (TWV) <i>provided by Leading Expert</i>

Char. 25	to check if should read: absent or very small (1); small (2); medium (3); large (4); very large (5) <i>Leading Expert: agreed</i>
Char. 27	to check whether to change “ <u>blunt</u> ” to “ <u>rounded</u> ” (in underlined section) <i>Leading Expert: no change</i>
Char. 29	to check whether to be indicated as QN <i>Leading Expert: agreed</i>
Char. 31	to check whether to delete “Plants:” <i>Leading Expert: no change</i>
Char. 31	example varieties to be provided (TWV) <i>provided by Leading Expert</i>
Chars. 31, 32	to add (+) and explanation to be provided (TWV) <i>to be provided</i>
8.1 (c)	to check whether to replace “DUS” with “growing” <i>Leading Expert: agreed</i>
Ad. 26	to be provided (TWV) <i>provided by Leading Expert</i>
Ad. 27, 28	2 <sup>nd</sup> paragraph: to consider deleting, or to indicate type of tip for medium varieties <i>provided by Leading Expert</i>
Ad. 27, 28	4 <sup>th</sup> paragraph: to clarify of what it is a “good example” <i>provided by Leading Expert</i>
TQ 4, 7	to add “#” with footnote*
TQ 9	to be updated*

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 26	to read “Root: shape coefficient” and to be moved after Char. 10
Ad. 26	to read:  <p>“The density of carrot roots is a constant close to 1 and therefore it is possible to calculate a shape coefficient (cf):</p> $cf = \text{weight}/(\text{length} \times (3.14 \times \text{diameter}^2/4))$ <p>The more cylindrical the root, the closer this coefficient is to 1 (adjustment of the weight to the volume of a cylinder).</p> <p>The more conical the root, the closer this coefficient is to 0.5 (adjustment of the weight to the volume of a cone).”</p> <p>subject to checking with the Leading Expert</p>
Ad. 31, 32	to be provided

TG/55/7(proj.3)	Spinach (Revision)
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(a) Changes to document TG/55/7(proj.2), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/55/7(proj.3)), submitted to the TC:

3.5	to read: “Unless otherwise indicated, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observation should be made on all plants in the test.”
4.2.2	to check whether to replace “seed-propagated open pollinated” with “cross-pollinated” <i>Leading Expert: agreed</i>
4.2.3	(a) to check whether the wording should be revised to:  “For the assessment of uniformity of hybrids, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 200 plants, 7 off-types are allowed. In addition, a population standard of 3% and an acceptance probability of at least 95% should be applied for inbred plants obviously resulting from the selfing of a parent line. In the case of a sample size of 200 plants, 10 inbred plants are allowed.”; and  (b) to check whether the sample size should be 100 or 60 plants instead of 200.  <i>Leading Expert: use wording above with sample size of 100 plants: 5 off-types and 6 inbred plants</i>
5.3 (c)	to amend according to Char. 15
5.3	to review the correspondence of the grouping and TQ characteristics: <i>Leading Expert: to include Chars. 15 and 16 in the Technical Questionnaire and to include Chars. 3, 4, 14 and 18 as grouping characteristics</i>
6.5	MG etc.: to correct reference to “3.3.2”
Chars.1, 17	to check the difference between Char. 1 and Char. 17 and to explain whether Char. 1, if retained instead of Char. 17, should be observed on submitted or harvested seed. <i>Leading Expert: Char. 1 is observed on submitted seed. Char 17 is observed on harvested seed (and can already be observed when it is still attached to the plant). The explanation why these are different characteristics: A plant which is grown from seed without spines can have seeds with spines: this will happen when the mother plant is round seeded (ss), but the father (pollinator) is spine seeded (SS) which is dominant. The tissue around the seed submitted (which in fact is a fruit) is from the mother plant (ss), but the plant grown from it –the next generation- shows seeds with spines (Ss). Of course, this is only the case for hybrids. Therefore, add an example variety to Char. 1, state 1: Marimba, because this is such a hybrid. Office: “(submitted seed)” and “(harvested seed)” introduced in headings of Chars. 1 and 17, respectively.</i>
Char. 5	to check if example variety for note 7 should read “Parrot” instead of “Elephant” <i>Leading Expert: agreed</i>
Char. 9	state 4 to read “medium ovate”

Char. 9	to check whether order could be changed to 6, 4, 5, 1, 2, 3 <i>Leading Expert: agreed</i>
Chars. 13, 14, 15	to check whether to delete "Plant:" <i>Leading Expert: agreed</i>
Char. 19	the TC-EDC agreed that there should be a discussion in the Technical Committee on the possibility of having Technical Questionnaire characteristics which do not have an (*) in the Table of Characteristics: it was noted that this would make the observation obligatory for the applicant but not for the authority. The outcome of the TC discussion would then be applied to the Test Guidelines for Spinach.
Ad.1	pictures to be improved <i>provided by Leading Expert</i>
Ad. 13, 14, 15	heading format to be corrected
Ad. 13, 14, 15	to check if should read:  "Monoecious plants: plants which have both male flowers and female flowers (seeds clearly visible)" Female plants: plants which have only female flowers (seeds clearly visible)" [...]?"  <i>Leading Expert: agreed</i>
Ad. 13, 14, 15	2, 4, 6, 8 are missing. The range should be indicated for each note. Note 2 to 8 should be evenly distributed. <i>provided by Leading Expert</i>
Ad. 16	(a) to check if "nodes" should be replaced by "internodes"; (b) to check whether can delete the second sentence – "appears" indicates visual observation <i>Leading Expert: agreed</i>
Ad. 17	to provide improved (focussed) photograph for state 9 <i>provided by Leading Expert</i>
Ad. 18	(a) wording in English to be edited (Office if necessary); (b) to choose "control varieties", "differential varieties" or "example varieties"; (c) full address of NAKT and PRI to be provided; (d) light: 12h in German version, 15h in English version. to check which is correct? <i>provided by Leading Expert</i>
Ad. 18	introduction to differential table (page 19): to check if can be changed to read "Races Pfs:1-8 and 10 of <i>Peronospora farinosa</i> f. sp. <i>spinaciae</i> are defined with a standard set of so-called differential varieties according to the following table" with the reference to ISF at <a href="http://www.worldseed.org">www.worldseed.org</a> to be moved to Chapter 9 (Literature) <i>Leading Expert: agreed</i>
TQ 4	breeding scheme to be provided and 4.1 to be renamed as 4.2 (method of propagating the variety) <i>provided by Leading Expert</i>
TQ 5.3	to check the example varieties for states 1 and 3 in relation to Char. 4 <i>corrected by Leading Expert</i>
TQ 5.6	To read 5.6(viii) and 5.6(ix)
TQ 7.1	to be checked <i>modified by Leading Expert</i>

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 1	to be deleted: is an observation of the parent of the submitted variety
Ad. 8	to check whether the attitude relates to the natural attitude in relation to the horizontal, rather than to the attitude in relation to the petiole and clarify in illustration
TQ 5.9 (18), TQ "5.7" (19)	to be moved to TQ Section 7 and races to be listed with tick boxes for absent and present for each

TG/61/7(proj.4)	Cucumber, Gherkin (Revision)
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(a) Changes to document TG/61/7(proj.3), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/61/7(proj.4)), submitted to the TC:

2.2, 2.3	formatting to be amended
3.5	To read: "Unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation should be made on all plants in the test."
Char. 4	to check if should have notes 1, 3, 5 <i>Leading Expert: no change</i>
Char. 7	to check whether "of terminal lobe" can be deleted <i>Leading Expert: no change</i>
Char. 13	difference between states 2 and 3 to be clarified <i>clarified by Leading Expert (see Ad. 13)</i>
Char. 13	to check whether QL <i>Leading Expert: no change</i>
Char. 14	state 5 to read "predominantly"
Char. 15	to add (*) (grouping characteristic)
Char. 18	to check whether to delete "maximum" <i>Leading Expert: agreed</i>
Chars. 22, 23	to review: perhaps Char. 22 could have the states: acute (1); obtuse (2); rounded (3) (there is also a shape for "necked" varieties) and Char. 23 would not then need to be indicated as " <u>Only necked varieties</u> " and would have state 1: absent or very short. <i>Leading Expert: no change (no change from existing Test Guidelines)</i>
Char. 25	to check whether to delete "at market stage" or note (e) <i>Leading Expert: delete note (e)</i>
Char. 25	to check whether should be indicated as PQ <i>Leading Expert: agreed</i>
Char. 26	to read " <u>Excluding white varieties: ...</u> "
Char. 28	to check if QL
Chars. 29, 30	to check whether Char. 29 is truly QL and, if not, Chars. 29 and 30 to be combined
Char. 31	to have the order of states 1, 3, 2 <i>Leading Expert: agreed</i>

Char. 38	states 1 and 2 to be worded more clearly, e.g. in bands only (1); predominantly in bands (2); evenly distributed (3) and (+) with illustration to be provided <i>provided by Leading Expert</i>
Char. 39	to check whether to add note (e) <i>Leading Expert: agreed</i>
Char. 43	to add (+) with an explanation of “physiological ripening” and to check whether to delete note (d) <i>provided by Leading Expert (note (e) deleted)</i>
Chars. 45, 46, 47	state 2 to read “moderately resistant” (see TGP/12 and check translations accordingly) <i>Leading Expert: agreed</i>
Char. 46	to check if abbreviation “(Sf)” is correct <i>Leading Expert: no change</i>
Char. 48	to check whether more than one fungus is involved <i>Leading Expert: no change (only one fungus)</i>
8.1 (a)	to check whether to become Ad. 1 and to read “bitterness should be observed by tasting, just before the development of the first true leaf” <i>Leading Expert: agreed</i>
8.1 (b)	to clarify and check if needed for Char. 2: if not, replace by Ad. 3 <i>Leading Expert: agreed</i>
8.1 (c)	to read “ <u>Leaf blade</u> : observations on the leaf blade should be made on a fully developed leaf blade, from above the 7 <sup>th</sup> node” <i>Leading Expert: agreed</i>
8.1 (d)	to check if should read “ <u>Flowers</u> : all observations on the flowers should be made on flowers between the 5 <sup>th</sup> and the 15 <sup>th</sup> node” <i>Leading Expert: agreed</i>
8.1 (e)	to replace “around 14 days after flowering” with an indication of a stage of development (Note: the TC-EDC will propose that the Technical Committee and the Technical Working Parties develop of a simple, general growth stage key for plants to cover such situations) <i>Leading Expert: no change (very difficult develop of a simple, general growth stage key for plants to cover all types of fruit)</i>
Ad. 13	explanations to be improved <i>provided by Leading Expert</i>
Ad. 14	to review whether to reword as “Where there are more than 50% of nodes with one flower, two flowers, etc., the state of expression is predominantly one, predominantly two. In other cases, the state is that which represents the highest percentage.” <i>Leading Expert: agreed</i>
Ad. 16	in English to read “The development of the fruit without pollination should be observed under circumstances where pollination by insects (bees, bumblebees, etc.) is not possible; for example, in an insect-free greenhouse or at a time of the year when insects are not active.” <i>Leading Expert: agreed</i>
Ad. 17	to check whether the explanation can be deleted (it is true of other characteristics) <i>Leading Expert: no change</i>
Ad. 41	to delete first part so as to read “A whitish...” <i>Leading Expert: agreed</i>

Ad. 44-49	- wording in English to be edited - to check whether “soil” should be changed to “soil or compost” <i>Leading Expert: agreed</i>
Ad. 48	scheme of observation to be provided <i>provided by Leading Expert with new example varieties</i>
TQ 5.2	delete “,” after “Sunsweet”
TQ 7.3.2(c)	remove double comma

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 13	spelling of “monoecious” to be corrected
Char. 25	add (+) with explanation of market stage
Char. 26	to add “(as for 25)”
Char. 28	to delete example variety “Dongji chungnang”
Ad. 17	to be deleted

TG/70/4 Rev.(proj.2)	Apricot (Partial Revision)
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(a) Changes to document TG/70/4 Rev.(proj.1), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/70/4 Rev.(proj.2)), submitted to the TC:

Char. 22	to check whether this should be indicated as QN rather than QL <i>Leading Expert: agreed to be indicated as QN</i>
Char. 44	to read “Fruit: ground color of skin” <i>Leading Expert: agreed</i>
9.	to check whether new literature to be provided <i>Leading Expert: no further literature</i>
9.	to correct double quotes, e.g. Beketovskaya: on “Dima”; Guerriero R., Ref.

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 57	to change spelling of “Larqueen” to “Larquen”
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TG/137/4(proj.4)	Blueberry (Revision)
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(a) Changes to document TG/137/4(proj.3), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/137/4(proj.4)), submitted to the TC:

4.2.2	to keep “off-types” on same line
5.3 (f), (h)	to align wording with Table of Characteristics (delete first “shoots”)
6.5	to correct presentation for MG, MS, VG
Char. 3	state 1 to read “green” <i>Leading Expert: agreed</i>

Char. 3	to consider changing order of states to: green (1); reddish yellow (2); greenish red (3); greyish red (4); dark red (5); reddish brown (6) <i>Leading Expert: no change</i>
Char. 5-7, 12	to be indicated as MS/VG <i>Leading Expert: agreed</i>
Chars. 12, 13	reverse the order of characteristics <i>Leading Expert: agreed</i>
Char. 13	to check whether explanation note (a) (= dormant season) should be (c) <i>Leading Expert: no change</i>
Char. 14	<i>Leading Expert: to be indicated as VG</i>
Char. 15	replace “size” with “length” <i>Leading Expert: TWF agreed “size” after consideration of “length”</i>
Char. 18	to add ( ) (grouping and TQ characteristic)
Char. 18	example varieties to be provided for state 1
Char. 18	to move after Char. 32 (as for Raspberry) <i>Leading Expert: agreed</i>
Char. 19	to consider changing to “Infructescence: density” <i>Leading Expert: to change to “Fruit cluster: density” (TC-EDC agreed)</i>
Char. 22	to provide illustration and change states to 2-dimensional terms: oblong (1); round (2); oblate (3) <i>provided by Leading Expert</i>
Char. 23	to have intermediate state between erect and semi-erect and to check if QN <i>Leading Expert: to be indicated as QN</i> (intermediate state between erect and semi-erect to be provided)
Char. 24	to check if QN
Char. 28	to add ( ) (grouping and TQ characteristic) and to check if truly QL – if not, 3 states required. Alternatively, to consider combining with Char. 29 <i>Leading Expert: Chars. 28 and 29 to be combined</i>
Char. 30	<i>Leading Expert: add (+) with explanation and to be indicated as VG</i>
Char. 31	to add (+) and provide explanation <i>provided by Leading Expert</i>
Char. 32	to add (+) and provide explanation <i>provided by Leading Expert</i>
Char. 35	to be indicated as QN
Chars. 35, 37	to delete: “(see char.18)”
Chars. 35, 37	example varieties to be provided (asterisked characteristic) or ( ) to be deleted <i>example varieties provided by Leading Expert</i>
Char. 36	to check if note (d) to be deleted <i>Leading Expert: agreed</i>
Ad. 33	to be deleted (does not provide additional information) <i>explanation clarified by Leading Expert</i>
Ad. 34, 35	to read “The time of beginning of flowering is when 10% of the flowers are fully open.”
Ad. 36, 37	to read “The time of beginning of fruit ripening is when 10% of the fruits are ripe.”
TQ 1.8	to check whether “genera and” to be deleted <i>Leading Expert: agreed</i>
TQ 4	to delete line after 4.1.4
TQ 4, 7	to add “#” with footnote



(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 21	state 1 to read “elliptic”
Char. 22	to have at least 3: erect (1); erect to semi-erect (2); semi-erect (3)
Char. 23	to be indicated as QN
Char. 28	to add VS (see Ad. 28)
Char. 31	example variety to be provided if possible
Chars. 34, 36	to read “ <u>Only varieties...</u> ”

TG/140/4(proj.4)	Azalea (pot) (Revision)
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(a) Changes to document TG/140/4(proj.3), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/140/4(proj.4)), submitted to the TC:

3.3.2	to be transferred to Chapter 8.1
4.2.2	keep “off-types” on same line
Char. 5	to check if truly QL, or if it is QN: if QN, to add an intermediate state “elliptic to obovate” and to provide example varieties <i>Leading Expert: intermediate state provided; to be indicated as PQ</i>
Char. 7	example variety to be provided for state 4 (asterisked characteristic) <i>Leading Expert: no example variety of common knowledge</i>
Char. 8	to have notes 1, 3, 5, or to delete “very” from state 1, or state 2 to read “intermediate” <i>Leading Expert: to have notes 1, 3, 5</i>
Char. 13	to check if QN (see Ad. 13) <i>Leading Expert: agreed</i>
Char. 14	- to add (*) (TQ characteristic) - to check what is meant by “ventricose” (Inflated, swollen, or distended, <i>especially on one side</i> ) and improve illustration to show difference between states 4 and states 2 and 3. - example varieties to be provided for states 4 and 5. <i>Leading Expert: state 4 to be deleted; example variety provided for state 5</i>
Char. 15	to check whether “very” to be deleted from state 1, or state 2 to read “intermediate” <i>Leading Expert: “very” to be deleted</i>
Char. 16	to add asterisk (grouping and TQ characteristic)
Char. 16	to check whether to add note (c) <i>Leading Expert: agreed</i>
Chars. 17, 19	underline “margin”
Chars. 18, 20	underline “middle”
Chars. 18 - 20	to correct spelling of “RHS Colour Chart”
Char. 23	- to add (*) (TQ characteristic) - example varieties to be provided for states 3 and 4 <i>Leading Expert: state 4 to be deleted; example variety provided for state 3</i>
Char. 25	to be indicated as QN <i>Leading Expert: no change</i>

Char. 26	to check whether to change order of states to: yellow (1); purple (2); violet (3); light brown (4); dark brown (5) <i>Leading Expert: no change</i>
Char. 27	to add ( ) (TQ characteristic)
8.1 (b)	to read: "...should be <u>made</u> on ..."
8.1 (b)	to align with 3.3.2 (3.3.2 states beginning of flowering – 50% plants with one flower fully open according to Ad. 27) <i>provided by Leading Expert</i>
Ad. 2	to add title of characteristic
Ad. 5	to delete one space before "shape"
Ad. 23	to be provided <i>provided by Leading Expert</i>
Ad. 27	to read "... one fully open flower"
9.	to be ordered alphabetically
TQ 1.2.1	to check whether these Test Guidelines only apply if <i>Rhododendron simsii</i> Planch. is used as the female plant (i.e. placed first in the formula) <i>Leading Expert: Test Guidelines apply to all hybrids with Rhododendron simsii Planch.</i>
TQ 1.2.1	to replace "times" symbol with "x" to avoid problems in pdf version
TQ 4	to delete line after 4.1.4
TQ 5.2	to be updated according to Table of Characteristics

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 25	to check whether QN
Ad. 5	to check whether illustrations for states 2 and 3 should be reversed

TG/155/4(proj.3)	Pumpkin (Revision)
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(a) Changes to document TG/155/4(proj.2), made on the basis of comments received from members of the Enlarged Editorial Committee in January 2007, which are already incorporated in the draft Test Guidelines (document TG/155/4(proj.3)), submitted to the TC:

6.5	MG etc.: to correct reference to "3.3.2"
Char. 1	to change "elliptical" to "elliptic"
Char. 1	state "obovate" should read note "3", not "5"
Char. 4	to check if states of expression be notes 1, 2, 3 (not 1, 3 5)? If not, to add state for note 7. <i>Leading Expert: to have notes 1, 2, 3</i>
Chars. 8, 9	to check whether note (a) to be deleted <i>Leading Expert: agreed</i>

Char. 15	to check whether - to read: “Fruit: shape in longitudinal section” - to change “shape” to “shaped” (states 1 and 11) - to change “elliptical” to “elliptic” (states 3, 4, 6, 7) - state 10 to read “broad pear shaped” and 11 to read “narrow pear shaped” <i>Leading Expert: agreed</i>
Char. 15	to check whether order of states to be changed to follow the rule: primary order – broadest part below middle to broadest part above middle; then secondary order - narrow to broad <i>Leading Expert: no change</i>
Char. 15	example varieties to be provided for states 8 and 9 (TWV) <i>Leading Expert: no example varieties available</i>
Char. 17	to consider combining with Char. 18, e.g. raised (1); flat (2); slightly depressed (3); moderately depressed (4); strongly depressed (5) <i>Leading Expert: agreed</i>
Char. 19	to check whether to be indicated as QN <i>Leading Expert: agreed</i>
Char. 19	to check whether to reverse order of states <i>Leading Expert: no change</i>
Char. 23	add (+) with explanation of the states and an explanation of, for example, how to address a situation where there are two color intensities but <u>without</u> clear borders
Char. 20	<i>Leading Expert: new example varieties provided</i>
Char. 24	to check order of colors <i>Leading Expert: no change</i>
Char. 24	example varieties to be provided for state 2 (TWV) <i>Leading Expert: no example varieties available</i>
Chars. 26, 27	to read “ <u>Only varieties with two or more color hues: ...</u> ”
Char. 26	to check order of colors (as for Char. 24) <i>Leading Expert: no change</i>
Char. 26	example varieties to be provided (TWV) <i>provided by Leading Expert for some states</i>
Char. 28	to read “ <u>Only varieties with two or more color hues or intensities (with clear borders): ...</u> ”?
Char. 32	<i>Leading Expert: example varieties amended</i>
Char. 36	example variety to be provided for state 2 (TWV) <i>Leading Expert: no example varieties available</i>
Ad. 24	to add Chars. 25 to 28 to title and add (+) for those characteristics
9.	to check whether further references to be added <i>Leading Expert: no change</i>
TQ 1.3	“1.3 Advisory note” to be deleted – text to be moved outside box
TQ 5.7	line after TQ 5.6 to be deleted and states to be kept on same page

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 24	to read “ <u>Excluding varieties with main color of skin: cream or white: ...</u> ”
Char. 29	to check if “dots” is correct term and add (+) with illustration
Char. 32	example variety to be checked for state 3 (TWV)
Char. 33	example varieties to be provided

Char. 34	states to be checked (TWV) and example varieties or table of ratios to be provided (asterisked characteristic)
Char. 35	to check whether note (b) to be deleted or also added to Chars. 33 and 34
Ad. 4	to be provided (TWV)
Ad. 34	to be provided or example varieties to be provided in the Table of Characteristics

TG/215/1Rev.(proj.2)	Clematis (Partial Revision)
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(a) Changes to document TG/215/1Rev.(proj.1), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/215/1Rev.(proj.2)), submitted to the TC:

Cover page, TQ 1.1	to replace “ <i>Latin</i> ” with “ <i>Botanical name</i> ”
3.4, 3.5	to change “eight” to “8”
Char. 10	to reverse order of states 2 and 3
Char. 18	to check typing of state 3 in English “strong”
Char. 19	to read “Plant: arrangement of flowers” <i>Leading Expert: disagree. It would require a change in order of characteristics in the Table of Characteristics, which would not be appropriate for a partial revision</i>
Chars. 19, 20	in French: to delete space after “Fleurs”
Char. 20	to check if (+) to be deleted <i>Leading Expert: agreed</i>
Char. 21	to read “Flower: attitude”
Char. 22	to be indicated as QN
Chars. 24, 26	to read “ <u>Only varieties with flower type: single or semi-double: ...</u> ”
Char. 24	to check if note (d) to be deleted <i>Leading Expert: agreed</i>
Chars. 25, 27	to read “ <u>Only varieties with flower shape: rotate: ...</u> ”
Char. 28	to have the states: absent or very weak (1); weak (2); strong (3)
Char. 31	state for lanceolate to have note “2”
Char. 35	- order of states 2 and 3 to be reversed - (+) with illustration to be provided
Char. 48	Leading Expert: ‘Seiboldii’ to be deleted from example varieties (example varieties not required)
Chars. 48, 49	in French: to delete space after “pétaloïdes”
Char. 51	translations required for state 2
Char. 53	- translations required for state 2 - to add example varieties “Ania, Xerxes” for state 2 - to add note (c) - state 5: to correct: “purple”
8.1 (d)	to delete “The” before “Flowers”
Ad. 3	title to be added
Ad. 6	state 6: to move legend under drawing
Ad. 9	to correct title according to Char. 9
Ad. 21	illustration / explanation to be improved

Ad. 24	- illustrations for state 2 and 3 to be inverted - illustration for state 4 to show flower in profile
Ad. 34	to delete space after “non”
TQ 1.2	to read: “Common name”
TQ 4, 7	to add “#” with footnote
TQ 5.2	example varieties to be deleted (deleted from Table of Characteristics)
TQ 5.6, 5.7	numbering to be corrected

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Chars. 24-27, 34	to delete “:” after “ <u>flower</u> ”
Char. 26	to read “...Flower: number of sepals”
Char. 39	to read “ <u>Only varieties with one color:...</u> ”
Chars. 40, 41, 43	to read “ <u>Only varieties with more than one color:...</u> ”
Char. 46	to read “ <u>Only varieties with...</u> ”
Char. 47	to read “Petaloid staminodes: presence”
Chars. 51, 52, 53	to add note (g) which would explain that identifiable stamens and stigma may not be present as one or both are absent or have become petaloid/stamenoides. (To clarify that these characteristics may not be able to be observed.)

TG/AMARAN(proj.6)	Grain Amaranth
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Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

Chapter 1	to read:  “1.1 These Test Guidelines apply to all varieties of <i>Amaranthus</i> L. used for grain production.”  “1.2 The main grain species are <i>Amaranthus caudatus</i> L., <i>Amaranthus cruentus</i> L. and <i>Amaranthus hypochondriacus</i> L.”
2.3	to add “of seed” after “100 g.”
3.5	to add “and any other observations made on all plants in the test.”
4.3	to add ASW 9 or 10
Char. 1	to check whether truly QL
Char. 2	to check whether truly QL and, if not, to be combined with Char. 3 as QN characteristic.
Char. 2	to read “hypocotyl” (delete “s”)
Char. 3	to replace “pigmentation” with “coloration”
Char. 6	to be indicated as QN
Char. 7	to be indicated as QN and to have 3 states: in middle or slightly towards bases (1); moderately towards base (2); strongly towards base (3)
Char. 8	to have at least 3 states (e.g. absent or weak (1); medium (2); strong (3))

Char. 10	<ul style="list-style-type: none"> <li>- to clarify “at the beginning of growth”</li> <li>- to read “Young leaf: distribution of secondary color on upper side”. To add any indication of timing as Ad. 8 or by a note;</li> <li>- to review the characteristic and check whether there is useful additional discrimination in relation to Chars. 20, 21 and 23. If both sets of characteristics are kept, to harmonize the characteristics</li> <li>- state 6: to compare with picture and to check if it is better to read “one half of the leaf” instead of “in a strip”</li> </ul>
Char. 12	to decide if QL (2 states) or QN or PQ, with at least 3 states
Char. 14	to read “Plant: time of flowering” and delete note (e)
Char. 15	to delete “(at anthesis)”
Char. 16	to check whether truly QL: if not, to have 3 states
Char. 17	to be moved after Char. 19
Char. 18	to check whether truly QL and, if not, to be combined with Char. 19 as QN characteristic.
Char. 20	to add (*) (grouping characteristic)
Char. 22	to delete “(+)”, because there is no explanation on the Table of Characteristic and the explanation for this characteristic is not necessary
Char. 23	to delete “distribution”
Char. 24	to check whether green should come before yellow
Char. 25	to check whether to read “Inflorescence: density of glomerules” and to move after Char. 26
Char. 26	<ul style="list-style-type: none"> <li>- to check whether to read ““Inflorescence: density”</li> <li>- to review wording of states and order of states</li> <li>- to replace note (e) with note (f)</li> <li>- to provide an explanation of precisely what is to be observed (e.g. angle of branches and distance between branches)</li> </ul>
Char. 31	to check whether to delete “very” from state 1 and state 2 to read “moderately recurved”
Chars. 34-36	to delete “(at maturity)” – see note (f)
Char. 35	to check whether truly QL
Char. 37	to check order of colors – brown after pink and before black
Char. 38	state 1 to read globose and to delete “(flattened)” in state 3
Char. 39	add (+) with explanation
Chars. 40, 41	to check if note (g) applies
Char. 40	to delete “at 10% moisture”
Char. 41	to check if necessary for DUS; example varieties to be provided; and to delete “(relative increase of volume)”
8.1 (d)	to become Ad. 13
Ad. 7	illustrations to be provided for 3 states
Ad. 10	state 4 – to read “two “V” shaped stripes”
Ad. 14	to be clarified
Ad. 22	to be provided ((+) in Table of Characteristics
Ad. 25	to read “the density of the glomerule ...”
Ad. 26	wording to be improved
Ad. 27	wording to be improved
Ad. 29	wording to be improved
Ad. 31	<ul style="list-style-type: none"> <li>- to add stem to illustration for state 1</li> <li>- label on state 3 should be “strongly recurved”</li> </ul>

Ad. 33	wording to be improved
Ad. 38	to move names of states from page 25 to page 24, under the appropriate pictures
Ad. 40	delete all text after first sentence
Ad. 41	delete all text after second paragraph
9.	to be formatted correctly
TQ 1	to add box requesting species details
TQ 4	to be retained unchanged
TQ 6	example to be provided

TG/ANGLN(proj.3)	Angelonia
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Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

Alt. names	to add “-” in common names												
1.	to read “These Test Guidelines apply to all varieties of <i>Angelonia angustifolia</i> Benth. and hybrids between <i>Angelonia angustifolia</i> Benth. and other species of <i>Angelonia</i> Bonpl., of the family <i>Scrophulariaceae</i> .”												
4.2.3	to replace “20 plants” with “30 plants”												
4.2.3, 4.2.4	to check whether all types exist and amend to cover only existing types of varieties												
Char. 1	to check if QL – if not, to have 3 states												
Char. 23	to check whether to change notes to 3, 5, 7												
Char. 25	to add “(+)”												
8.1(c)	to check whether to be reworded as follows: “Observations on the flower and flower parts should be made when flowers are fully open”.												
TQ 5	<p>to add Chars. 14 and 15 as follows:</p> <p>5.5 (i) <u>Only varieties with stripes present</u>: Corolla lobes: ground color RHS Colour Chart (indicate reference number)</p> <p>5.5 (ii) <u>Only varieties with stripes present</u>: Corolla lobes: ground color</p> <table style="margin-left: 40px;"> <tr> <td>white</td> <td>1 [ ]</td> </tr> <tr> <td>other color (indicate)</td> <td>2 [ ]</td> </tr> </table> <p>5.6 (i) <u>Only varieties with stripes present</u>: Corolla lobes: color of stripes RHS Colour Chart (indicate reference number)</p> <p>5.6 (ii) <u>Only varieties with stripes present</u>: Corolla lobes: color of stripes</p> <table style="margin-left: 40px;"> <tr> <td>white</td> <td>1 [ ]</td> </tr> <tr> <td>pink</td> <td>2 [ ]</td> </tr> <tr> <td>violet</td> <td>3 [ ]</td> </tr> <tr> <td>other color (indicate)</td> <td>4 [ ]</td> </tr> </table> <p>(otherwise there would be no description of the color of the varieties with stripes at all.)</p> <p><i>Office: would need to be adopted subject to agreement by TWO by correspondence</i></p>	white	1 [ ]	other color (indicate)	2 [ ]	white	1 [ ]	pink	2 [ ]	violet	3 [ ]	other color (indicate)	4 [ ]
white	1 [ ]												
other color (indicate)	2 [ ]												
white	1 [ ]												
pink	2 [ ]												
violet	3 [ ]												
other color (indicate)	4 [ ]												

TG/COM_MIL(proj.6)	Common Millet
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(a) Changes to document TG/COM\_MIL(proj.5), made on the basis of comments received from members of the Enlarged Editorial Committee in January 2007, which are already incorporated in the draft Test Guidelines (document TG/COM\_MIL(proj.6)), submitted to the TC:

2.2	to read “seed” instead of “seeds” and to refer to panicles? (see 2.5)
2.5	to be incorporated in 2.2 and 2.3
4.2.3	to add “on single panicle rows” after “uniformity”
Char. 22	violet should be state 2, not state 3
Char. 32	to have dotted line between 32.1 and 32.2 etc.
Ad. 8	to update heading according to Table of Characteristics
TQ 5.13	to add example variety for state 1 from Table of Characteristics
TQ 9	to be updated

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

2.2, 2.3	to read:  “2.2 The material is to be supplied in the form of seeds and, if requested by the competent authority, panicles should also be submitted.  “2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:  Seed: 1 kg; and Panicles (if requested): 100”
3.5	To add: “... and any other observation should be made on all plants in the test.”
4.2.2	to delete the final sentence
Char. 2	to add (*) ( <i>Leading Expert: agreed</i> )
Char. 7	to add (*) (TQ characteristic)
Char. 19	to be indicated as QN and state 3 to read “circular”
Char. 24	to be indicated as QN and state 3 to read “circular”
Char. 25	example variety to be provided by China for state 12, if possible
Char. 28	state 9 to read “very high”
Char. 29	example variety to be provided by China for states 7 and 9, if possible. Example varieties for states 1, 3, 5 to be checked. States to be kept unchanged.
Char. 30	To replace “placental spot” by “hilum”
Char. 31	example varieties and explanation to be provided by China
Char. 32	translations of heading to be checked
Char. 32	to have 3 states and to be indicated as QN. New states and explanation to be approved by TWA by correspondence.
Ad. 7	label text to be formatted
Ad. 9	to read “The time of panicle emergence is when the first spikelet is visible in 50% of the plants”
Ad. 31	to be provided (see comments for Char. 31)
Ad. 32	see comments at Char. 32 and wording in English to be edited and text to be translated in all languages



8.3	“collor” to read “collar”
9.	to regenerate references
TQ	to add Char. 2 ( <i>Leading Expert: agreed</i> )
TQ 6	example to be provided

TG/CUC_MOS(proj.4)	<i>Cucurbita moschata</i> Duch.
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(a) Changes to document TG/CUC\_MOS(proj.3), made on the basis of comments received from members of the Enlarged Editorial Committee in January 2007, which are already incorporated in the draft Test Guidelines (document TG/CUC\_MOS(proj.4)), submitted to the TC:

2.3	to check if should be “1500” instead of “1550” <i>Leading Expert: agreed</i>
4.2.1, 4.2.2	<i>amended by Leading Expert</i>
6.5	MG etc.: to correct reference to “3.3.2”
Char. 1	to check whether to be indicated as QN and to have notes 3, 5, 7 <i>Leading Expert: agreed</i>
Char. 1	example varieties to be updated (TWV) <i>Leading Expert: no change</i>
Char. 2	states of expression to be clarified <i>Leading Expert: characteristic to be deleted</i>
Char. 3	to check if notes should be 3, 5, 7 <i>Leading Expert: agreed</i>
Char. 4	<i>Leading Expert: example variety for state 7 to be deleted</i>
Char. 5	example varieties to be checked (TWV)
Char. 19	- state 1: to change “elliptical” to “elliptic” - state 2: to read “transverse medium elliptic” - state 3: to read “round”
Char. 20	to check whether to read “Fruit: presence of neck” <i>Leading Expert: agreed and example varieties provided</i>
Char. 21	to check whether to add note (b) and to have notes 3, 5, 7 <i>Leading Expert: agreed and example varieties provided</i>
Char. 22	to check whether to add (*) <i>Leading Expert: agreed</i>
Char. 22	to check whether wording in French or English is correct <i>Leading Expert: to read “Fruit: curving (longitudinal axis)”</i>
Char. 23	to consider combining with Char. 24, <i>Leading Expert: agreed, i.e. raised (1); flat (2); slightly depressed (3); moderately depressed (4); strongly depressed (5)</i>
Char. 25	to check whether to be indicated as QN <i>Leading Expert: agreed</i>
Char. 29	example variety to be provided for state 1 (TWV) <i>Leading Expert: characteristic to be deleted and Char. 30 to have state 1 “absent or very weak”</i>
Char. 31	example variety to be provided for state 3 <i>Leading Expert: no example variety</i>

Char. 31	to review order of states, e.g. green before cream <i>Leading Expert: agreed</i>
Char. 33	example variety to be provided for state 1 (TWV) <i>provided by Leading Expert</i>
Char. 35	example varieties to be provided for states 3 and 5 (TWV) <i>Leading Expert: characteristic to be deleted</i>
Char. 36	example varieties to be provided (TWV) <i>provided by Leading Expert</i>
Char. 40	to check if should have notes 3, 5, 7 <i>Leading Expert: agreed</i>
Char. 41	state 4 to read “blue grey” or “bluish grey” <i>Leading Expert: to read “bluish grey”</i>
8.1 (c)	“on the fruit” to be deleted
Ad. 5	to be provided (TWV) <i>provided by Leading Expert</i>
Ad. 19	illustration for state 8 to have fruit without curvature <i>provided by Leading Expert</i>
Ad. 22	to be provided (TWV) <i>provided by Leading Expert</i>
Ad. 25	illustration for state 2 to be improved (TWV) <i>provided by Leading Expert</i>
Ad. 37	illustration to be corrected (placement of arrows) (TWV) <i>provided by Leading Expert</i>
Ad. 40	to be checked (TWV) <i>amended version provided by Leading Expert</i>
8.3	<i>updated by Leading Expert</i>
9.	further literature to be provided (TWV) <i>provided by Leading Expert</i>
TQ 6	to change “orange” to “orange brown”

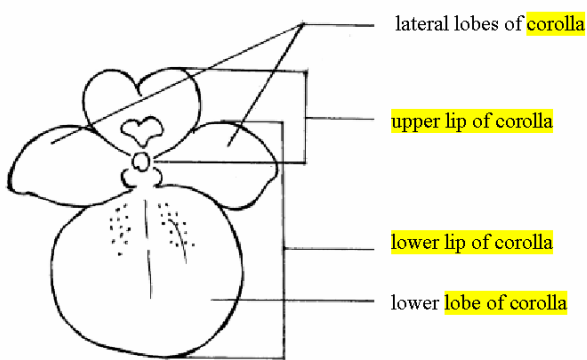
(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 27	to delete “intensity of”
Ad. 21	to check whether illustration for state 7 is intended to be state 9 (illustrations for state 1, 5 and 9 would be sufficient)

TG/DIASC(proj.3)	Diascia
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Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

Cover page	to add German common name “Doppelhörnchen”
3.5.1, 3.5.2	to add “on single plants” after “all observations” or delete “and any other observations made on all plants in the test”
4.2.3, 4.2.4	to check whether all types exist and amend to cover only existing types of varieties
4.3.2	to change “plant stock” to “seed or plant stock”

4.3.3	to check whether hybrid varieties exist
Char. 1	to delete note concerning GB
Char. 2	to delete blank row and keep example varieties on one line
Char. 5	state 2 to read “medium” ( <i>already changed</i> )
Char. 12	to clarify whether the variegation could be the main color
Char. 13	to check if should be color of variegation
Char. 15	to check whether to change notes to 3, 5, 7
Char. 21	to read “Corolla: reflexing of lateral lobes”
Chars. 22, 23, 24, 25	to read “Corolla: lower lobe: ...”
Char. 26	to check whether to change notes to 3, 5, 7
Chars. 28-30	to read “spur” instead of “spurs”
Char. 31	to read “Spur: attitude of tip”
Char. 29	to delete “main” (covered by explanation) ( <i>already changed</i> )
Ad. 21, 22	to replace with following:  
9.	formatting to be checked
TQ 5.2	to correct note “2” to note “9”
TQ 5.4	example variety to read “Codiusre” instead of “Codusre”
TQ 5.5	to have notes 3, 5, 7

TG/HUSK(proj.5)	Husk Tomato
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Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

2.3	to check whether the quantity of seed could be reduced
3.5	to insert “on single plants” and add “and any other observations made on all plants in the test.”
5.3 (e)	to check why Char. 28 (Fruit: main color (at physiological maturity)) used for grouping, but Char. 30 (Fruit: main color (at harvest maturity)) included in TQ
5.3 (g)	to check whether should be included in TQ
Char. 2	state 1 (Spanish) to be in normal font (not bold)
Char. 3	to have the states: low (3); medium (5); high (7)

Char. 5	to check whether truly QL and, if not, to be combined with Char. 6 as QN characteristic.
Char. 8	to be indicated as QN
Char. 11	to check whether to have notes 1, 2, 3 (note 3 = strong) – as in Ad. 11. or to have notes 1, 3, 5
Char. 13	font size to be corrected for “QN” and “(d)”
Char. 16	to check whether to be indicated as QN
Char. 18	to check whether this characteristic should be moved with Char. 34
Char. 19	to check whether to move after Char. 16 and check if note (d) is correct
Char. 20	to check whether notes should be 3, 5, 7, 9
Char. 21	font size to be corrected for “QN” and “(d)”
Chars. 21, 22	to add a (+) with an illustration to indicate which measurements to take.
Char. 22	state 3 (English) to be in normal font (not bold)
Char. 24	font size to be corrected for “circular”
Char. 34	to reverse order of states
Char. 35	to check whether to remove (+) (there is no Ad. 35) and to be indicated as QL
Char. 36	to check whether QL and, if not, to be indicated as QN with 3 states
Char. 37	to check whether truly QL and, if not, to be combined with Char. 38 as QN characteristic.
Char. 38	to be indicated as QN and to add state 1: very weak (unless combined with Char. 37)
Char. 41	to keep states on same page
Char. 42	state 1 (English) to be in normal font size
Char. 44	to have at least 3 states
Char. 44	state 1 (English, French) to be in normal font size
Char. 46	to delete note (a)
Char. 47	to delete note (d)
Char. 48	to delete note (e)
Char. 49	to move text in brackets to Ad. 49
8.1 (a)	to check whether to be deleted
8.1 (c), (d), (e)	“notes” to be replaced by “nodes”
8.1(d) and (e)	to check whether sentences about flower measurements should be deleted
Ad. 1	to replace “right” with “immediately”
Ad. 29, 31	“must” to be replaced by “should”
Ad. 29, 31	to check whether to reword to read “The intensity of color in <i>each</i> example variety of characteristic....”
Ad. 35	to be provided (has (+) in the Table of Characteristics) or (+) to be deleted
Ad. 41	to read “This characteristic should be evaluated by comparing and contrasting the firmness of the candidate variety against the example varieties, using the index finger and the thumb.”
Ad. 42	“must” to be replaced by “should” and to use a number of samples which corresponds to 2 replicates (see Chapter 3.4.1)
Ad. 46	“has” to be replaced by “have”
Ad. 47	to read “The time of harvest maturity is when the fruit is fully developed”
Ad. 49	to read “The test begins at harvest maturity. One fruit from each plant in each replication and environment is harvested and the 10 fruits from each replication are put in a polyethylene bag. The bags need to be stored inside. The classification is done by comparing and contrasting the candidate variety against the example varieties, verifying the shelf- life of each variety.”

9.	formatting to be corrected
TQ 4	footnote to be added
TQ 5	to be aligned with Table of Characteristics
TQ 9	to be updated and to check whether 9.3 is necessary

TG/HYPER_PER(proj.3)	St. John's Wort
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Changes to document TG/HYPER\_PER(proj.2), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/HYPER\_PER(proj.3)), submitted to the TC:

2.2	to change "seeds" to "seed"
3.1	to delete "after an establishment year"
3.5	to read: "Unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation should be made on all plants in the test."
6.5	MG etc.: to correct reference to "3.3.2"
Chars. 11, 12	to add (*) (TQ characteristic)
Char. 16	to delete note (b) or (+) <i>Leading Expert: delete note (b)</i>
Char. 18	to be indicated as QN
Ad. 11	to add arrows to illustration for both types of gland
Ad. 17	new illustration provided by Leading Expert
Ad. 18	to read : ... only a few flowers remain"
Ad. 19	"of a variety" to be deleted
4.2.1 (d)	to check if should be labeled as "4.2.2"? (i.e. other than seed-propagated) <i>Leading Expert: agreed</i>

TG/MOM(proj.3)	Bitter Gourd
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(a) Changes to document TG/MOM(proj.2), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/MOM(proj.3)), submitted to the TC:

General	to check paragraph spacing (e.g. after 2.3)
3.4, 4.2.3	to specify a "round" number of plants (e.g. 30 or 40) <i>Leading Expert: to indicate 40 plants</i>
3.5	To read: "Unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observation should be made on all plants in the test."
Char. 2	to correct alignment of first two columns
Char. 3	the word "characteristic" to be deleted
Char. 7	to consider rewording to "Leaf blade: ratio length/width lobe" with states small (1) medium (2) large (3) and example varieties to be indicated accordingly. <i>Leading Expert: agreed</i>

Char. 8	- to check if QL (appears to be QN) - to explain how to determine a lobe <i>Leading Expert: no change</i>
Char. 17	example variety to be provided for state 1 (asterisked characteristic) <i>provided by Leading Expert</i>
Char. 20	to read “Wart: size” <i>Leading Expert: agreed</i>
Chars. 20-22	to add (+)
Char. 21	- to read “Wart: shape of top” <i>Leading Expert: agreed</i> - to correct spelling of “obtuse”
Char. 21	example variety to be provided for state 3 (asterisked characteristic) <i>provided by Leading Expert</i>
Char. 22	to be moved before Char. 20 <i>Leading Expert: agreed</i>
Char. 23	to read “Wart: presence of spines” <i>Leading Expert: agreed</i>
Char. 25	example varieties to be provided for all states (asterisked characteristic) <i>provided by Leading Expert</i>
Chars. 26 & 27	to check if should be “MG” instead of “MS” <i>Leading Expert: agreed</i>
Char. 27	to check whether to add note (e) <i>Leading Expert: agreed</i>
Char. 30	to read “Seed: indentation of edge” <i>Leading Expert: agreed</i>
Char. 31	states to be kept on same page
Char. 31	example varieties to be replaced: <i>provided by Leading Expert</i>
8.1 (a)	to become Ad. 1 <i>Leading Expert: agreed</i>
8.1 (e)	harvest maturity to be defined <i>provided by Leading Expert</i>
Ad. 7	highlighted text to be deleted
Ad. 19	<i>new illustration for state 4 provided by Leading Expert</i>
Ad. 20, 24	add Ad. 20-22 to title
Ad. 26, 27	harvest maturity to be defined <i>provided by Leading Expert</i>
Ad. 30	<i>new illustrations provided by Leading Expert</i>
9.	<i>literature provided by Leading Expert</i>
TQ 5.5	to change “deep” to “dark”
TQ 6	example provided Leading Expert: <i>Fruit: shape in longitudinal section / spindle-shaped / oblong</i>
TQ 7.3.1	“to be checked” to be deleted (checked by Leading Expert)
TQ 7.3.1	to add “7.3.2” before “A representative...”

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

Char. 25	explanation to be provided (has a (+)) and to define “ripe” (to check in relation to note (e))
Char. 31	explanation of physiological maturity to be provided
9.	In “Ministry of Agriculture...” reference to add space after “Bitter”

TG/SUTERA(proj.4)	Sutera and Jamesbrittenia
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(a) Changes to document TG/SUTERA(proj.3), proposed by the Enlarged Editorial Committee at its meeting on January 9, 2007, which are already incorporated in the draft Test Guidelines (document TG/SUTERA(proj.4)), submitted to the TC:

Table of Chars.	to check and delete unnecessary spaces before or after “:” in French and Spanish
Char. 12	to check whether to add “blade” after “leaf” (twice) <i>Leading Expert: agreed</i>
Char. 13	example variety to be provided for state 9 <i>provided by Leading Expert</i>
Char. 20	example varieties to be provided <i>provided by Leading Expert</i>
Ad. 10	title to be amended according to Table of Characteristics
Ad. 10	to check whether first example illustration of state 2 to be deleted (broadest part is at base) <i>Leading Expert: agreed</i>
Ad. 15	to move “only” before “has”
Ad. 18, 19, 20, 24	Ad. 24 title to be kept on one line
Ad. 18, 19, 20, 24	<i>Leading Expert: indication in pictures - to read “corolla”, not “corolla lobe”</i>
TQ 5	to check and delete unnecessary spaces after “:”
TQ 5.5(ii), 5.6	last state of expression to read: “other color (indicate)”

(b) Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines, submitted to the TC:

8.1 (b)	to clarify if color of variegated part could, or would not, be the main color (it could have the largest area in some cases) (see TGP/14: Color)
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TG/TAGETE(proj.6)	Tagetes
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Changes proposed by the Enlarged Editorial Committee in March 2007, which are to be included in the Test Guidelines submitted to the TC:

Char. 17	(a) to read “ <u>Only varieties with ligulate floret type: ...</u> ; (b) to have the states: very few (1); few (3); medium (5); many (7)
Char. 18	example variety to be provided for state 2
Char. 21	to underline “ <u>Only varieties with incision of margin absent</u> ”
Char. 24	to delete “(+)”
Chars. 27, 30	to delete “or only” and, if required, provide explanation to explain that the main color may be the only color
Ad. 15	photographs to be replaced
Ad. 18	to be provided
Ad. 19	state “present” to have note 9
Ad. 24	to be deleted
TQ 1	to replace “Latin” with “Botanical”
TQ 5.6, 5.7	to have the option of color groups as presented in Chapter 5.3 (Grouping)

<sup>1</sup> Terms used in this document:

CC:	Consultative Committee
CAJ:	Administrative and Legal Committee
TC:	Technical Committee
TWA:	Technical Working Party for Agricultural Crops
TWC:	Technical Working Party on Automation and Computer Programs
TWF:	Technical Working Party for Fruit Crops
TWO:	Technical Working Party for Ornamental Plants and Forest Trees
TWPs:	Technical Working Parties
TWV:	Technical Working Party for Vegetables
BMT:	Working Group on Biochemical and Molecular Techniques, and DNA-Profiling in Particular
Crop Subgroup:	<i>Ad Hoc</i> Crop Subgroup on Molecular Techniques
TGP/1:	TGP/1 “General Introduction With Explanations”
TGP/2:	TGP/2 “List of Test Guidelines Adopted by UPOV”
TGP/3:	TGP/3 “Varieties of Common Knowledge”
TGP/4:	TGP/4 “Constitution and Maintenance of Variety Collections”
TGP/5:	TGP/5 “Experience and Cooperation in DUS Testing”
TGP/6:	TGP/6 “Arrangements for DUS Testing”
TGP/7:	TGP/7 “Development of Test Guidelines”
TGP/8:	TGP/8 “Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability”
TGP/9:	TGP/9 “Examining Distinctness”
TGP/10:	TGP/10 “Examining Uniformity”
TGP/11:	TGP/11 “Examining Stability”
TGP/12:	TGP/12 “Special Characteristics”
TGP/13:	TGP/13 “Guidance for New Types and Species”
TGP/14:	TGP/14 “Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents”



BMT Guidelines: Guidelines for Molecular Marker Selection and Database Construction

- Option 1:           Option 1(a): Use of molecular characteristics which are directly linked to traditional characteristics (gene specific markers) – see documents TC/38/14-CAJ/45/4 and TC/38/14 Add.-CAJ/45/5 Add.
- Option 2:           Option 2: Calibration of threshold levels for molecular characteristics against the minimum distance in traditional characteristics – see documents TC/38/14-CAJ/45/4 and TC/38/14 Add.-CAJ/45/5 Add.

[End of Annex II and of document]